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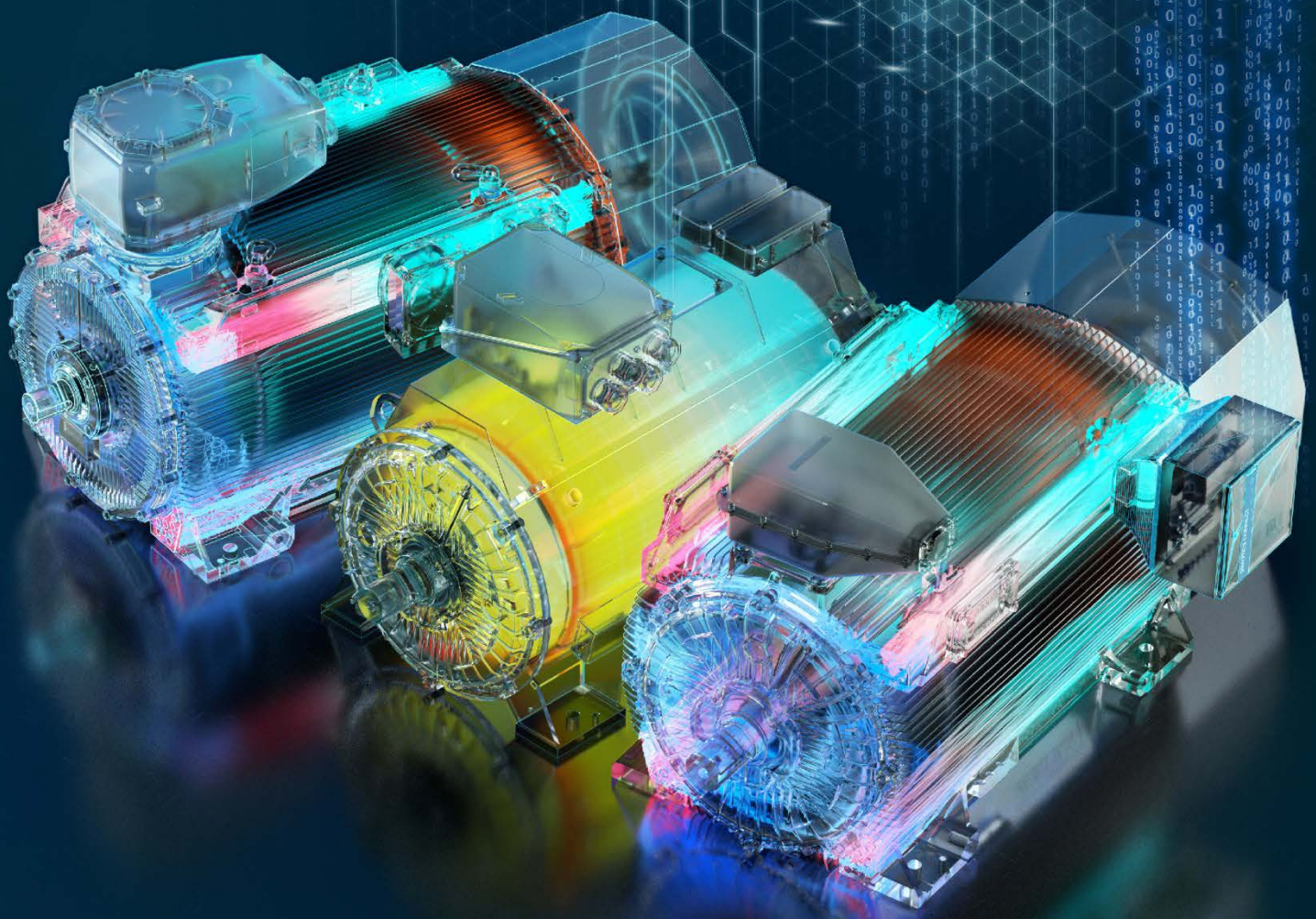

Motors

SIMOTICS HV C

High Voltage Motors

Catalog
D 84.2

Version 1.1
10/2023

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Publisher information:

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SIMOTICS HV C
High Voltage Motors

Catalog D 84.2

10-03-2023 – Version 1.1

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The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with DIN EN ISO 9001 (Certified Registration No. 002241 QM08). The certificate is recognized by all IQNet countries.

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1 Introduction

1.1 Overview

General

The SIMOTICS HV C series of motors shown in this catalog covers shaft heights up to 560 mm and a power range extending up to 2.5 MW (6 kV, 50 Hz, 4-pole).

This motor series covers the entire high voltage motor market and all applications in safe area and explosion protected zones (Zone 1, 2, 21, 22).

- **Air-cooled**:
  IP55, cooling IC411/IC416 (safe area, Ex ec, flameproof)
- **Water-jacket-cooled:**
  IP55, cooling IC71W (safe area, Ex ec on request)

The SIMOTICS HV C series has been developed for line (direct-on-line, DOL) and converter (variable-speed drive, VSD) operation. This means that in conjunction with medium-voltage SINAMICS GH150, GH180, GM150 and SM150 converters and successor products, drive systems are available in a power range up to 8.7 MW (at 6 kV, 50 Hz, 4-pole).

The SIMOTICS HV C series is also suitable for operation at non-Siemens converters.

In the Appendix A of this catalog you will find electrical and mechanical selection tables with technical data for line and converter operation.

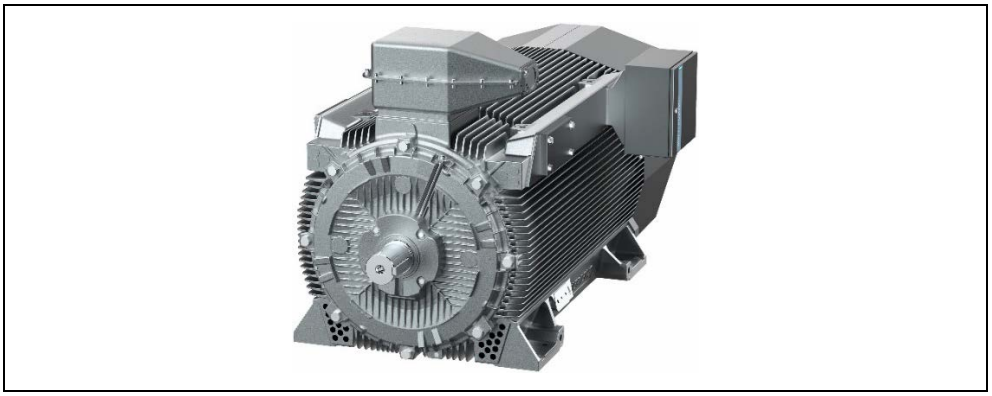

Figure 1-1 SIMOTICS HV C air-cooled (IP411)

Technical data

Detailed tables including electrical and mechanical data can be found in the Appendix A of this catalog.

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Online updates – LDA Portal

You will continue to find current information about the SIMOTICS HV C motors in the LDA Portal:

lda-portal.siemens.com

1.2 Configurator

Use the **Drive Technology Configurator** tool to get a motor drawing and/or a 3D STEP model (find link below). The quickest way to get a drawing there:
Use the direct article number entry on the home page.

Note
Please note, that it is not possible to display all special accessories in standard dimension drawings and tables. Therefore no special terminal boxes, sensors, sleeve bearing monitoring and oil supply equipment etc. are displayed.

If the motor dimensions cannot be found in the DT Configurator, please contact your Siemens sales partner for a customized drawing.

You can find the DT Configurator on the Internet under:

Selection & Configuration | Siemens LDA Portal

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1.3 General information about converter operation

Speed-adjustable operation of motors in combination with converters can result in increased electric stress of the motor winding. The motor's self-cooling capabilities might be no longer enough to dissipate the heat losses, depending on the load profile and speed range of the converter operation.

Due to the nature of explosion-protected motors and their demand for a defined maximum surface temperature, converter-related thermic effects must be considered.

In the end, some of the motors operating at converters can have the same rating as their direct-on-line counterparts, while others demand for significant derating.

The following factors are influencing the derating factors, amongst others:

- Type of converter
  - Siemens converters, sinusoidal output voltage
  - Siemens converters, non-sinusoidal output voltage
  - Non-Siemens converters
- Load characteristics
  - Square load
  - Constant load
  - Constant power
  - Proportional load
  - others
- Speed range
  - 1:10
  - 1:5
  - 1:3
  - 70 to 100 %
  - 100 to 110 %
  - others
- Utilization of the motor winding
  - 155(F) / 130(B)
  - 155(F) / 155(F)
- Overload cycles
- Voltage level
- Load cycle, reversing torque
- Service factor
- Maximum permissible surface temperature

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2 General design

2.1 Mounting arrangements

Types of construction

The motors are supplied as standard in the following construction types:

- IM B3 (IM 1001)
- IM V1 (IM 3011)

Construction types are designated according to IEC 60034-7 Code I (Code II).

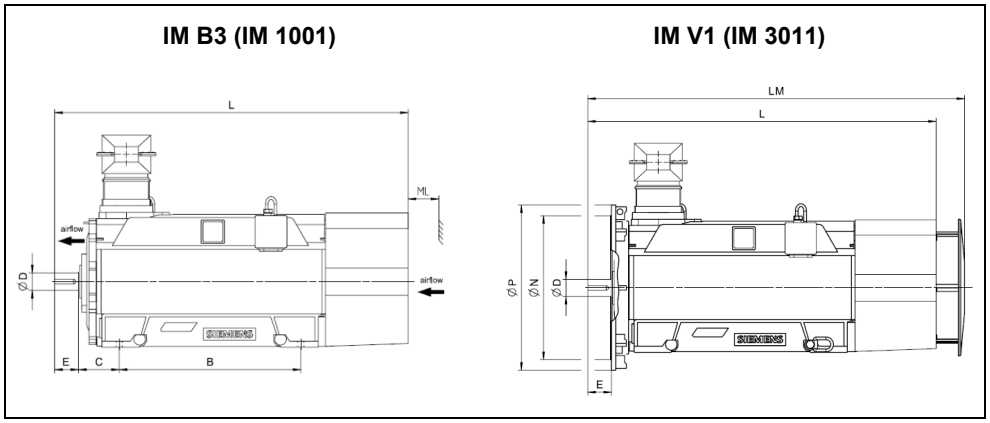

Figure 2-1 Standard mounting arrangements

Other types of construction are available on request.

Canopy for motors, type construction IM V1

A protective cover (canopy) is required if air-cooled motors in IP55 degree of protection are installed outdoors or in hazardous areas. A protective cover can be supplied for other motors on request at additional costs.

Standard water-cooled motors are not equipped with a canopy.

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2.2 Mechanical degrees of protection

The motors in the anti-friction and sleeve bearing design are available in IP55 degree of protection as standard, marked according to IEC 60034-5.

Higher degrees of protection are available on request.

2.3 Cooling methods

Table 2-1 SIMOTICS HV cooling methods, marked according to IEC 60034-6

Cooling method	Motor type
IC71W	Self-ventilated water-jacket-cooled motors
IC411	Self-ventilated rib-cooled motors
IC416	Forced ventilated rib-cooled motors

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3 Main terminal boxes

3.1 General

Terminal box standard placement for IC411/IC416 and IC71W

Main terminal boxes are mounted on top of the motor by default, cables from the right side (see picture below), optional from the left-hand side. The terminal boxes can be rotated in 90° increments.

Alternatively, it's possible to switch the main terminal box to the left or to the right side.

A neutral point terminal box can be mounted on request. The standard position of the neutral point terminal box is opposite the main terminal box.

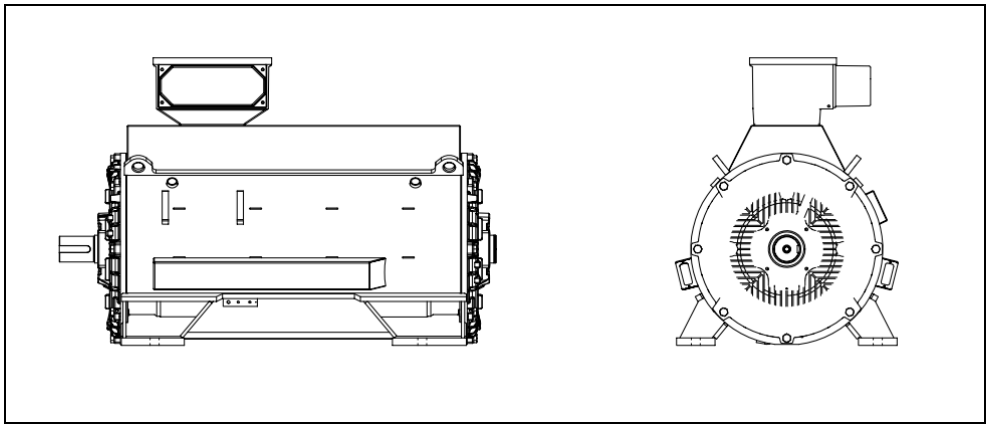

Figure 3-1 Standard terminal box mounting, water-cooled motor IC71W, IM B3

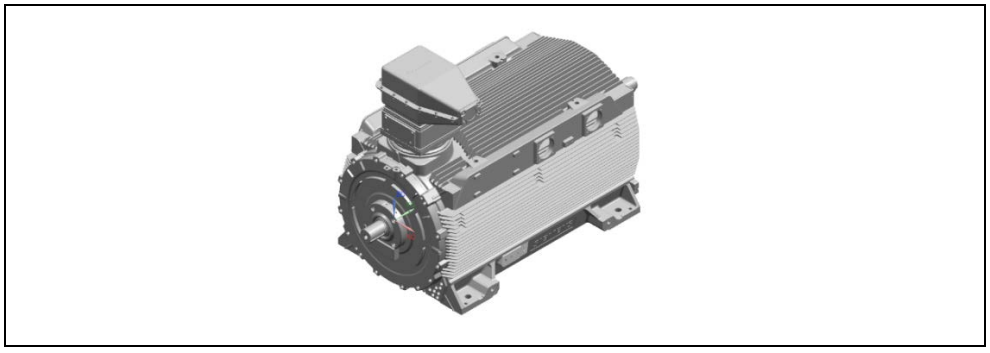

Figure 3-2 Standard terminal box mounting, air-cooled motors, cast-iron housing IC411, IM B3

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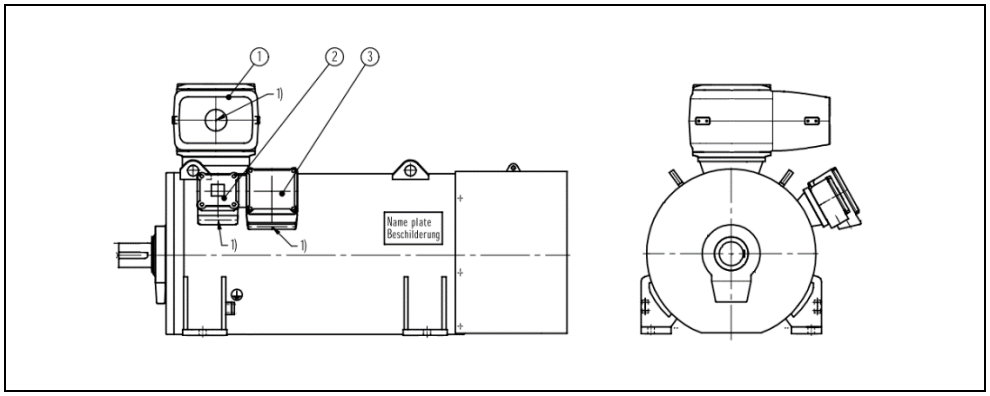

Figure 3-3 Standard terminal box mounting, air-cooled motors, steel-welded housing IC411, IM B3

Impulse short circuit

In the event of a motor short circuit, medium-voltage design in line or converter operation can withstand a peak short-circuit current of 100 kA.

Table 3-1 Short-circuit resistance

Short-circuit power [MVA]	Voltage [kV]	Short-circuit duration [s]
400	6	0.2
700	10	0.2

In case of special customer requirements about withstanding impulse short-circuit current, detailed information is needed to offer a solution.

Earthing

As standard no separate earthing connections (braid) between main terminal box and box adapter are installed.

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3.2 Cable entry

Note
Information about cables or the thread size for cable glands must be provided prior to an order. If this information is not available, terminal boxes will be delivered with undrilled cable entry plates.

On request the main terminal box with cable glands can be delivered. If anything special is requested, please provide all necessary data for an offer (manufacturer, type, thread size, cable diameter(s), etc.).

If cable glands are not included in the scope, cable entries are closed by certified threaded closing plugs.

Main cable entry plates for single cables must be of non-magnetic material (brass, stainless steel, aluminum…) to prevent local heating.

As standard, all screws of the main terminal box are made of galvanized steel and coated by the motor's coating system if outside (V2A/V4A on request).

3.3 Standard main terminal box 1XA8 711 (1NA1/1NB1/1NC1 ≤ 6.6 kV)

Features

- Standard main terminal box up to 6.6 kV rated voltage, up to 400 A (standard conditions)
- For explosion-protected motors a II 2G Ex eb IIC Gb certified version of this terminal box is used
- Three M16 terminals for line connection
- Welded steel design
- Mechanical enclosure IP55, optionally up to IP66
- Connection using cable lugs
  - For cable cross-sections of 25 mm² to 240 mm² in accordance with DIN 46234
  - For cable cross-sections of 40 mm² to 400 mm² in accordance with DIN 46235
- Connection using clamping straps for cable cross-sections of 50 mm² to 300 mm² or after rotating the terminal clamp from 120 mm² to 400 mm²
  - Standard for explosion-proof machines
  - Optional for non-explosion-proof machines
- Nominal short-circuit current 40 kA for 0.2 s duration
- Internal ground connection (on request with external ground connection)
- Only one cable entry possible

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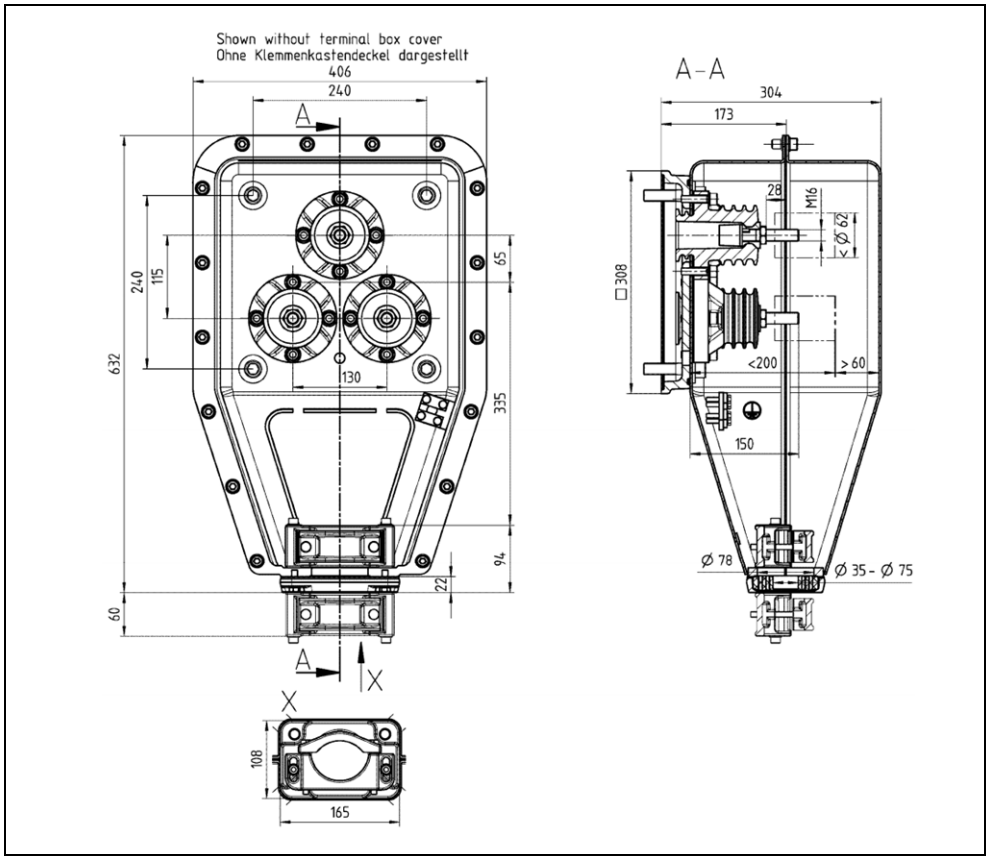

Figure 3-4 Standard terminal box 1XA8 711 (safe-area version)

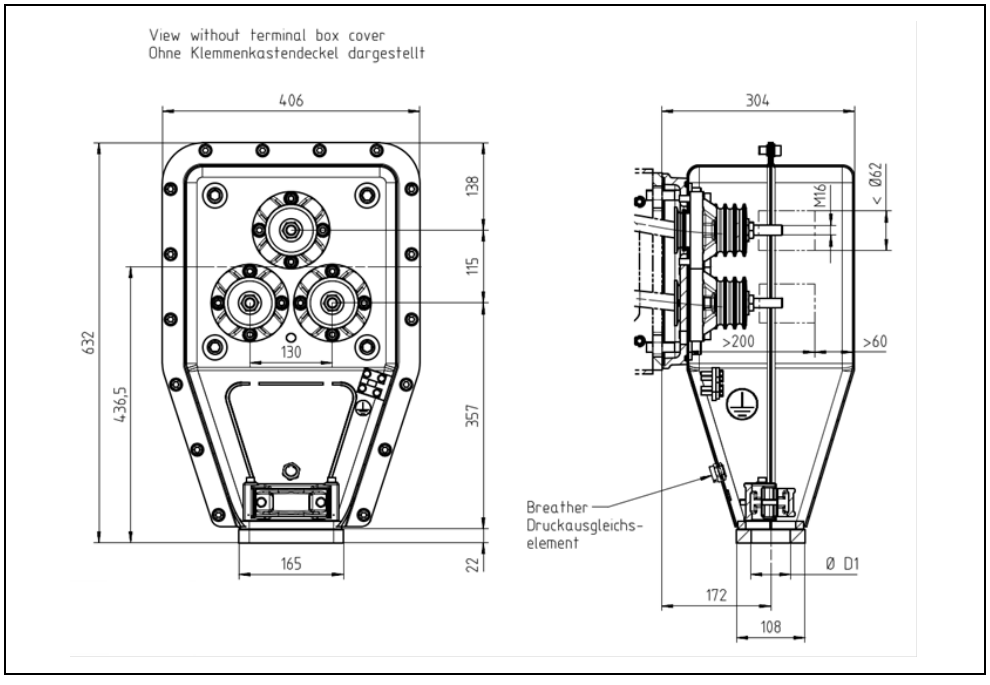

Figure 3-5 Standard terminal box 1XA8 711 (Ex eb version, used for flameproof motors)

3.4 Standard main terminal box 1XB9 911 (1NA1 ≤ 11 kV)

Features

- Standard main terminal box up to 11 kV rated voltage, up to 400 A (standard conditions)
- Three M16 terminals for line connection
- Welded steel design
- Mechanical enclosure IP55, optionally up to IP66
- Connection using cable lugs
  - For cable cross-sections of 25 mm² to 240 mm² in accordance with DIN 46234
  - For cable cross-sections of 40 mm² to 400 mm² in accordance with DIN 46235
- Connection using clamping straps for cable cross-sections of 50 mm² to 300 mm² or after rotating the terminal clamp from 120 mm² to 400 mm²
  - Standard for explosion-proof machines
  - Optional for non-explosion-proof machines
- Internal ground connection (on request with external ground connection)
- One cable entry, optionally available for up to three cable entries

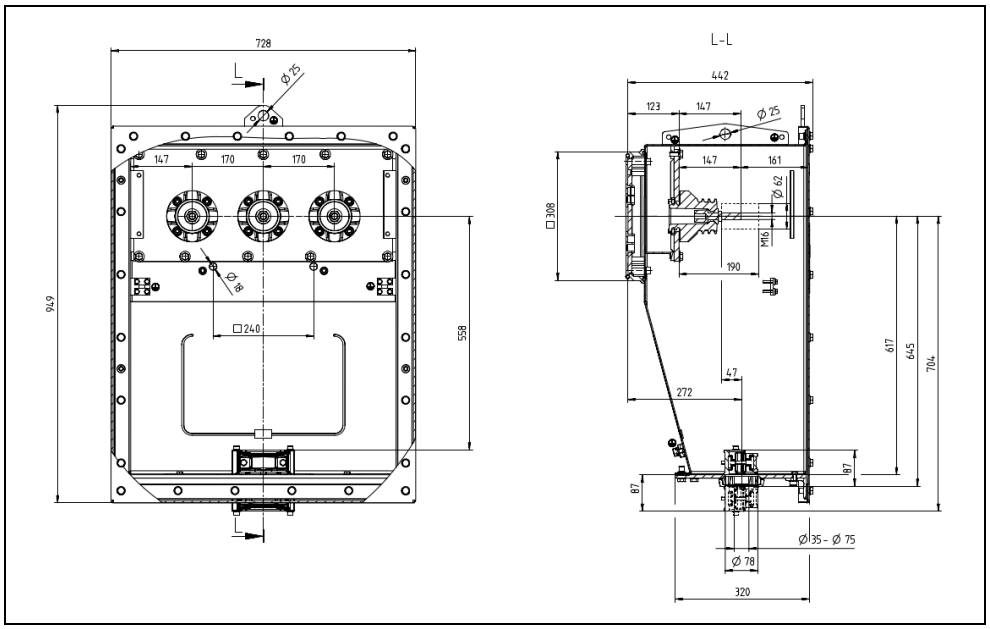

Figure 3-6 Standard terminal box 1XB9 911

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3.5 Standard main terminal box 9-103 472.60 (1NB1/1NC1 ≤ 11 kV)

Features

- Standard main terminal box up to 11 kV rated voltage, up to 400 A (standard conditions)
- Welded steel design ≥ 3 mm wall thickness
- Mechanical enclosure IP55, optionally up to IP66
- Ex protection II 2G Ex eb IIC Gb
- Low temperature design down to –40 °C
- Synthetic stud insulator
- Three M16 terminals for line connection
- Connection using round terminals M16-60 according to DIN 46223 up to 300 mm²
- Alternatively, connection using cable lugs
- Nominal short-circuit current 46.2 kA for 0.2 s duration, only if connected with cable lugs
- Internal grounding terminal 2 x 16 to 150 mm² (external grounding connection on request)

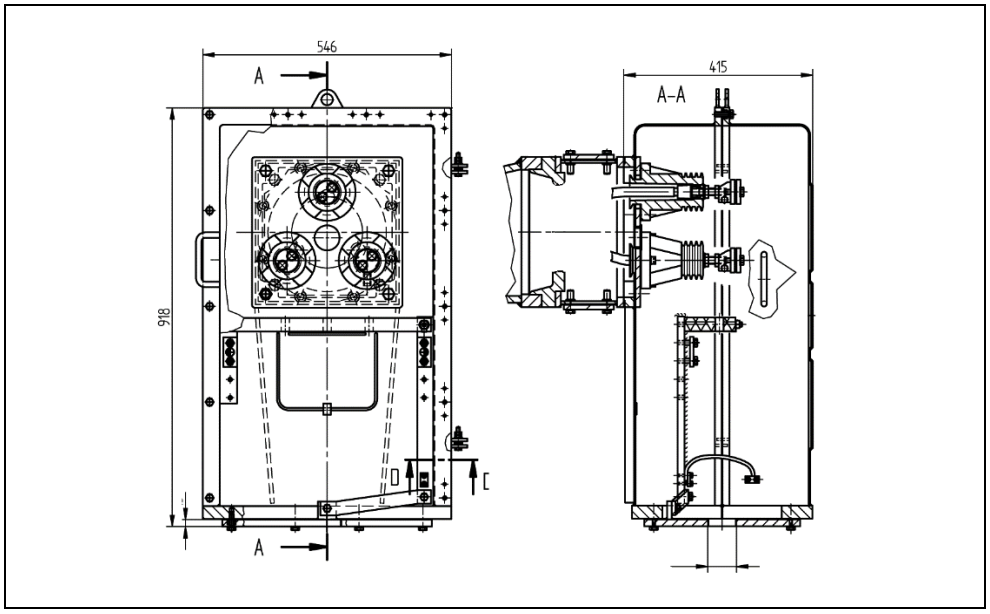

Figure 3-7 Standard terminal box 9-103 472.60

3.6 Standard main terminal box 1XB9 751 (1NA1 ≤ 6.6 kV, large)

Features

- Standard main terminal box up to 6.6 kV rated voltage, up to 800 A (standard conditions)
- Six M16 terminals for line connection
- Welded steel design
- Mechanical enclosure IP55
- Connection using cable lugs
  - For cable cross-sections of 25 mm² to 240 mm² in accordance with DIN 46234
  - For cable cross-sections of 40 mm² to 400 mm² in accordance with DIN 46235
- Connection using clamping straps for cable cross-sections of 50 mm² to 300 mm² or after rotating the terminal clamp from 120 mm² to 400 mm²
  - Standard for explosion-proof machines
  - Optional for non-explosion-proof machines
- Internal ground connection (external ground connection on request)
- One cable entry, optionally available for up to three cable entries
- Suitable for neutral point connection

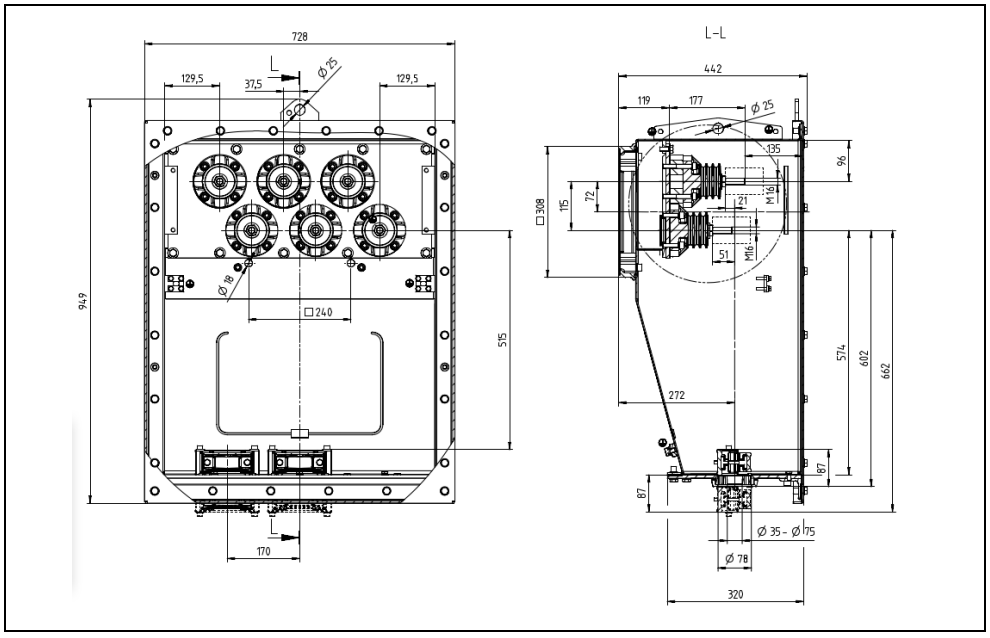

Figure 3-8 Standard terminal box 1XB9 751

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3.7 Standard main terminal box 1XB7 740 (1NA1 low voltage, small)

Features

- Standard main terminal box up to 1000 V rated voltage, up to 1420 A (standard conditions)
- Twelve M12 terminals for line connection
- 20 auxiliary clamps
- Welded steel design, 75 kg
- Mechanical enclosure IP65
- Synthetic stud insulator
- External grounding connection

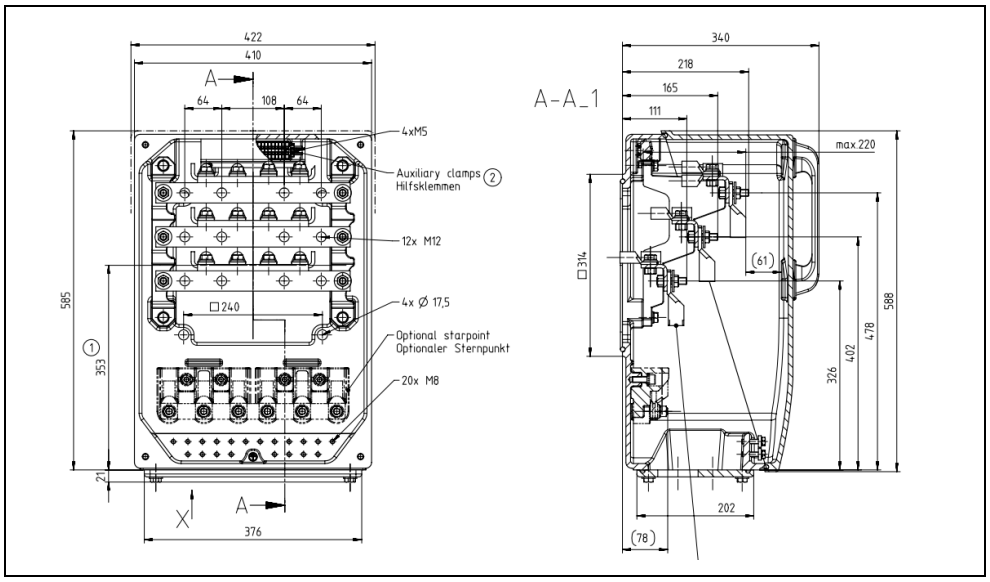

Figure 3-9 Standard terminal box 1XB7 740

3.8 Standard main terminal box 1XB7 751 (1NA1 low voltage, large)

Features

- Standard main terminal box up to 1000 V rated voltage, up to 2840 A (standard conditions)
- 24 M12 terminals for line connection
- 40 auxiliary clamps
- Welded steel design, 80 kg
- Mechanical enclosure IP55, optionally up to IP66
- Synthetic stud insulator
- External grounding connection

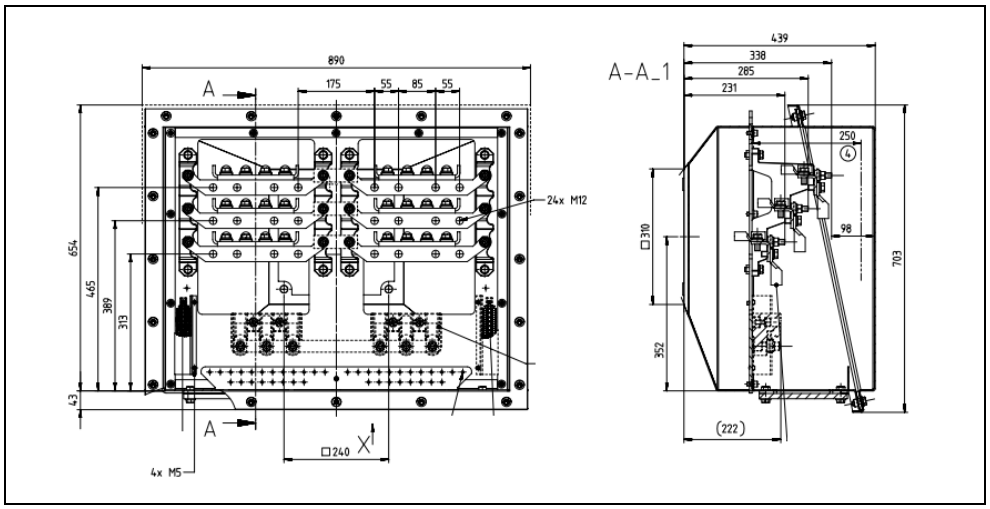

Figure 3-10 Standard terminal box 1XB7 751

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3.9 Standard main terminal box 9-108 382.25A (1NB1/1NC1 low voltage)

Features

- Main terminal box up to 690 V rated voltage, up to 1000 A
- Welded steed design ≥ 3 mm wall thickness
- Mechanical enclosure IP55, optionally up to IP66
- Ex protection II 2G Ex eb IIC Gb
- Low temperature design down to –40 °C
- Synthetic stud insulator
- Six M20 terminals for line connection
- Connection using round terminals M20 according to DIN 46223 up to 300 mm²
- Alternatively, connection using cable lugs
- Internal grounding terminal 4 x 16 to 150 mm² (external grounding connection on request)

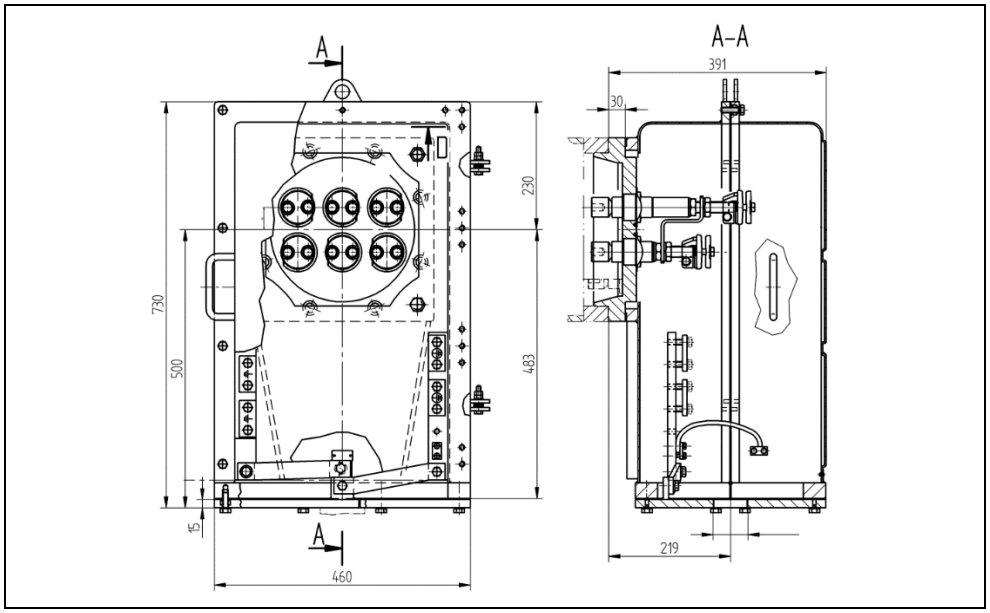

Figure 3-11 Standard terminal box 9-108 382.25A (690 V), adapter plate not displayed

3.10 Standard main terminal box 9-103 732.60 (1NB1/1NC1 ≤ 6.6 kV, large)

Features

- Main terminal box up to 6.6 kV rated voltage, up to 800 A (standard conditions)
- Welded steed design ≥ 3 mm wall thickness, approx. 170 kg
- Mechanical enclosure IP55, optionally up to IP66
- Ex protection II 2G Ex eb IIC Gb
- Low temperature design down to –40 °C
- Synthetic stud insulator
- Six M16 terminals for line connection
- Connection using terminals type CM16 for 50 to 300 mm²
- Alternatively, connection using cable lugs
- Internal grounding terminal 4 x 16 to 150 mm² (external grounding connection on request)

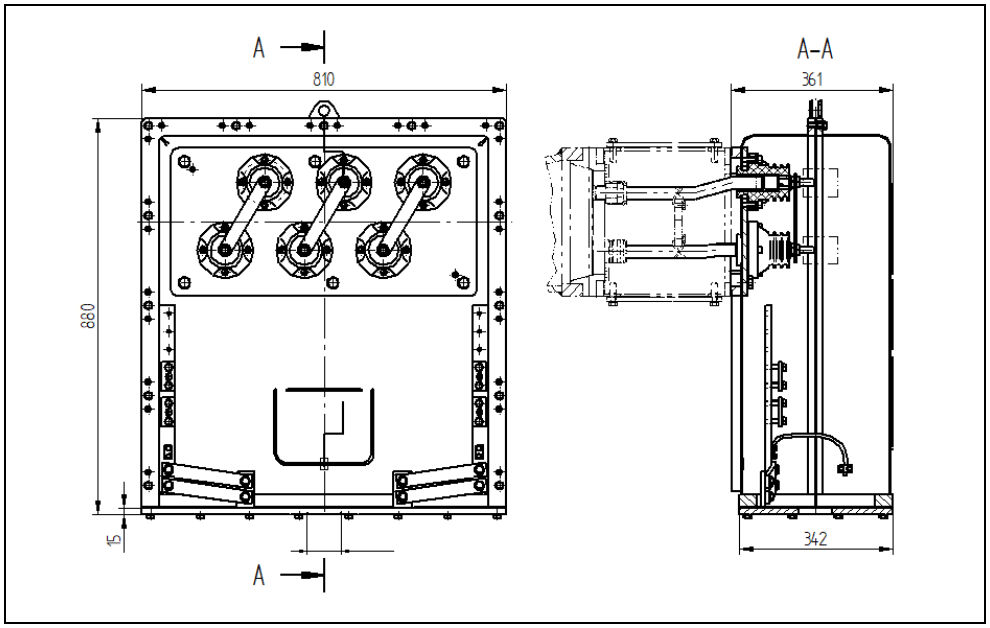

Figure 3-12 Standard terminal box 9-103 732.60 (6.6 kV)

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3.11 Standard main terminal box 9-103 732.61 (1NB1/1NC1 ≤ 11 kV, large)

Features

- Main terminal box up to 11 kV rated voltage, up to 800 A (standard conditions)
- Welded steed design ≥ 3 mm wall thickness, approx. 185 kg
- Mechanical enclosure IP55, optionally up to IP66
- Ex protection II 2G Ex eb IIC Gb
- Low temperature design down to –40 °C
- Synthetic stud insulator
- Six M16 terminals for line connection
- Connection using round terminals M16-60 according to DIN 46223 up to 300 mm²
- Alternatively, connection using cable lugs
- Internal grounding terminal 4 x 16 to 150 mm² (external grounding connection on request)

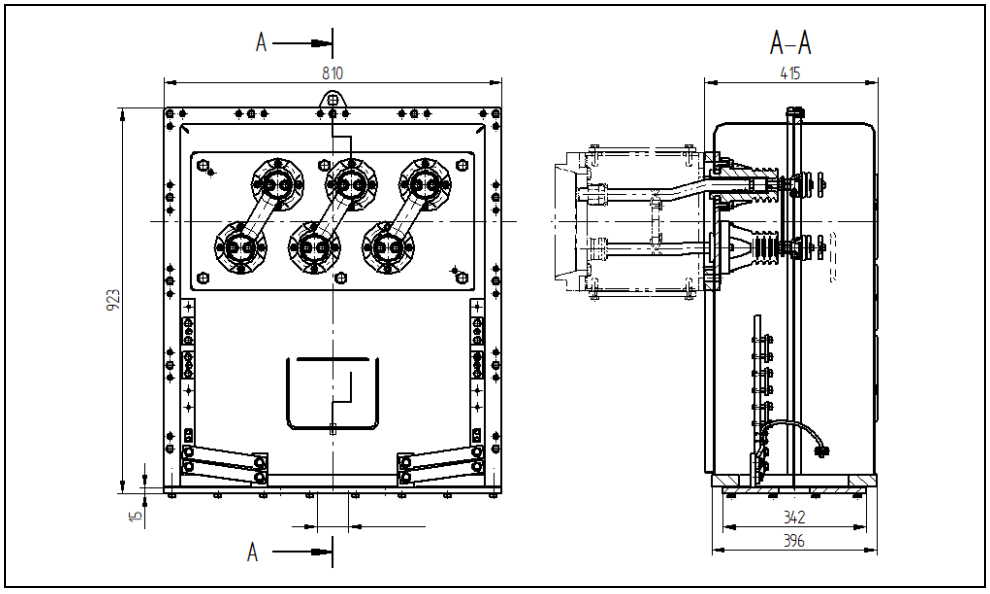

Figure 3-13 Standard terminal box 9-103 732.61 (11 kV)

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4 Auxiliary terminal boxes

4.1 General

The purpose of the auxiliary terminal box is to house terminals for connecting monitoring elements, heaters, etc. and to accommodate transmitters. For the sake of standardization, the scope of supply is restricted to the general types of auxiliary terminal box and terminal versions listed below.

Cast iron and stainless steel auxiliary terminal boxes are available in increased safety design (II 2G Ex eb IIC Gb).

Note
For other version please contact your Siemens sales partner.

See the sketch below for standard positions of auxiliary terminal boxes; however other positions are also possible. If necessary, more auxiliary terminal boxes can be mounted on SIMOTICS HV C motors.

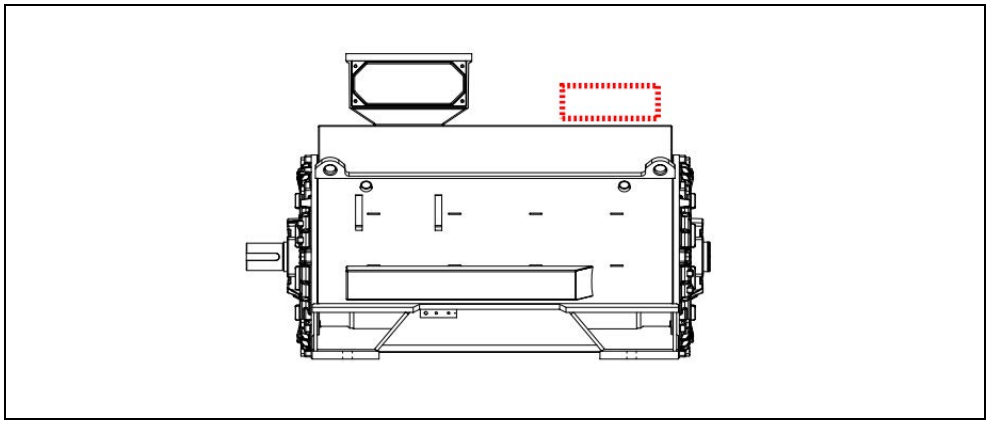

Figure 4-1 SIMOTICS HV C water-jacket-cooled IM B3, standard position of auxiliary terminal boxes

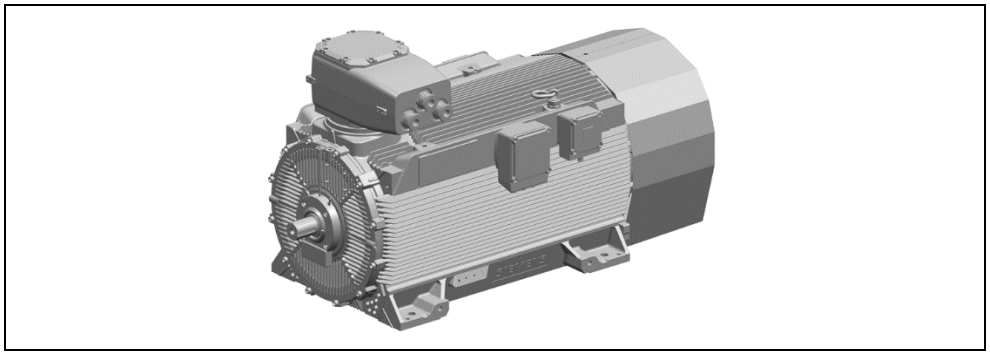

Figure 4-2 SIMOTICS HV C cast iron housing air-cooled IM B3, standard positions of auxiliary terminal boxes

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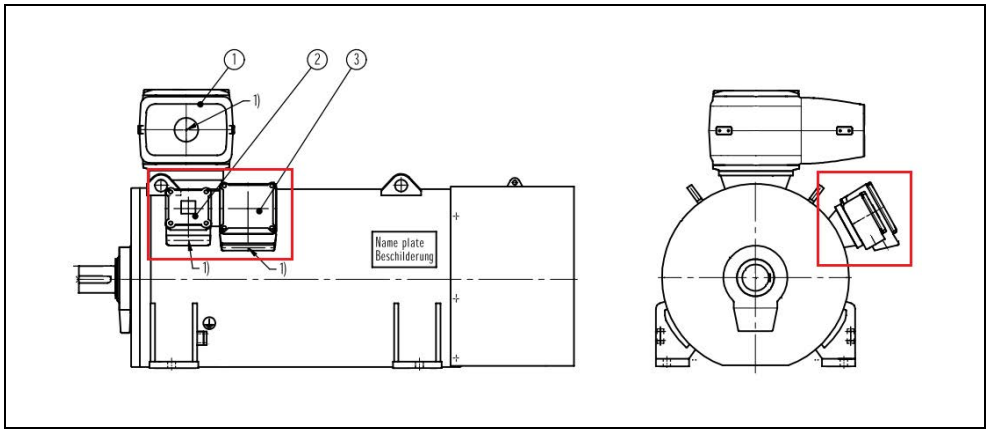

Figure 4-3 SIMOTICS HV C steel-welded housing IC411 IM B3, standard positions of auxiliary terminal boxes

Earthing

The earthing of auxiliary terminal boxes is established by surface of contact between the auxiliary terminal boxes and the motor housing.

There is no separate earthing connection apart from that by default; however, it might be there on a case-to-case basis due to practical reasons (i.e. if externally purchased terminal boxes from sensors are placed on the motor).

If the customer generally requires a separate earthing connection between auxiliary terminal boxes and motor housing, please contact your Siemens sales partner for feasibility and cost impact.

Standard for SIMOTICS HV C motors

- Connection of monitoring elements and anti-condensation heating in one auxiliary terminal boxes
  - Terminal block X1: monitoring elements
  - Terminal block X2: heating
- The following terminal box options are available:
  - Separate auxiliary terminal box for heating
  - Mounting transmitters
- For motors with many built-on components, contact your Siemens sales partner about the desired or required number of auxiliary terminal boxes before the order is placed, e.g.:
  - Neutral point terminal box equipment (current transformers etc.…)
  - Anti-friction bearing monitoring equipment (shock pulse measurement, housing vibration monitoring, speed monitoring, etc...)
  - Sleeve bearing monitoring equipment (vibration detection, key phasor, etc.…)

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Use of resistance thermometers (Pt100)

Generally, the Pt100 winding sensors are positioned at the winding hot spots, or if technically not sensible/possible, near to them.

As standard, all Pt100 are implemented as 2-wire elements and connected ex terminal by 4-wire cables. The use of 3- or 4-wire resistor elements (from element) in the winding/bearing and other monitoring circuits shall be avoided.

Owing to the very short cable length for the resistor elements in or on the motors, temperature compensation for a 3-wire circuit or 4-wire circuit with respect to the total cable length as compared to the 2-wire circuit can be neglected for monitoring purposes.

If the use of 3-wire or 4-wire elements is specified and mandatory, it can be offered on request.

Resistance thermometers are always implemented as Pt100 according to DIN/IEC/EN.

Design of terminal boxes and terminals for Ex ib circuits

If Ex ib circuits are used, all components must be Ex ib, including Pt100s, terminal boxes and terminals.

Blue terminals are generally used for Ex ib circuits. The corresponding auxiliary terminal box is also externally marked for identification.

Note
Ex ib winding Pt100s in 3- or 4-wire design from element shall be avoided! Especially smaller motors don't have enough space in the stator core slots to fit those large elements.

4.2 Cable entry

Auxiliary terminal boxes are delivered with undrilled gland plates.

On request, special thread sizes can be realized, if detailed information is provided prior to the order. If anything special is requested, please provide all necessary data for an offer (manufacturer, type, thread size, cable diameter(s), etc.…).

If cable glands are not included in the scope, cable entries are closed by certified threaded closing plugs.

On request, increased safety terminal boxes (II 2G Ex eb IIC Gb) can be delivered with undrilled cable entry plates.

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4.3 Auxiliary terminal box 1XB9 014 – standard design

Table 4-1 Standard features of the auxiliary terminal box 1XB9 014

Material	Aluminum
Max. number of terminals	40
Terminal box dimensions	360 x 160 x height 90 mm
With undrilled cable entry plate	182 x 70 x thickness 6 mm
Usable area for cable entry holes	Approx. 142 x 54 mm
Maximum device mounting height	50 mm
Ex certificates	PTB 00 ATEX 3113 U

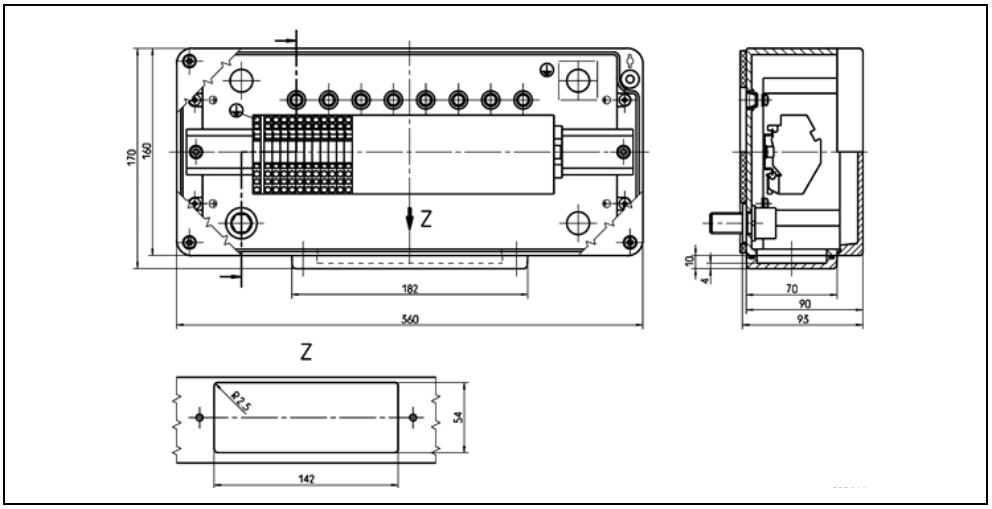

Figure 4-4 Auxiliary terminal box 1XB9 014

4.4 Auxiliary terminal box 1XB9 016 – cast iron

Table 4-2 Standard features of the auxiliary terminal box 1XB9 016

Material	Cast iron
Max. number of terminals	35
Terminal box dimensions	314 x 164 x height 120 mm
With undrilled cable entry plate	160 x 85 x thickness 8 mm
Usable area for cable entry holes	Approx. 120 x 65 mm
Maximum device mounting height	70 mm
Ex certificates	PTB 00 ATEX 3113 U

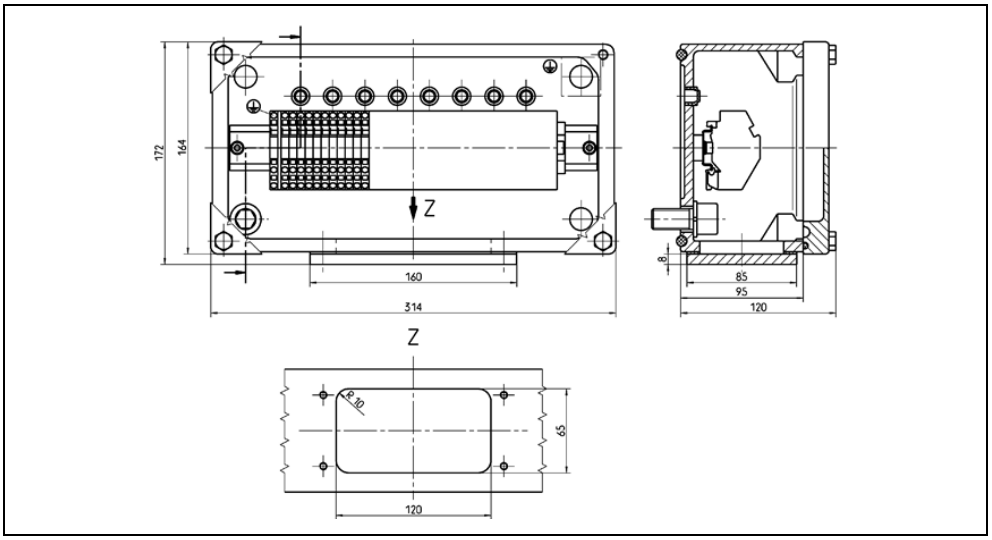

Figure 4-5 Auxiliary terminal box 1XB9 016 – cast iron design (option M50)

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4.5 Auxiliary terminal box 1XB9 015 – stainless steel

Table 4-3 Standard features of the auxiliary terminal box 1XB9 015

Material	Stainless steel AISI304 (AISI316 on request)
Max. number of terminals	40
Terminal box dimensions	360 x 177 x height 150 mm
With undrilled cable entry plate	126 x 126 x thickness 5 mm
Usable area for cable entry holes	Approx. 112 x 112 mm
Maximum device mounting height	120 mm
Ex certificates	PTB 00 ATEX 3113 U

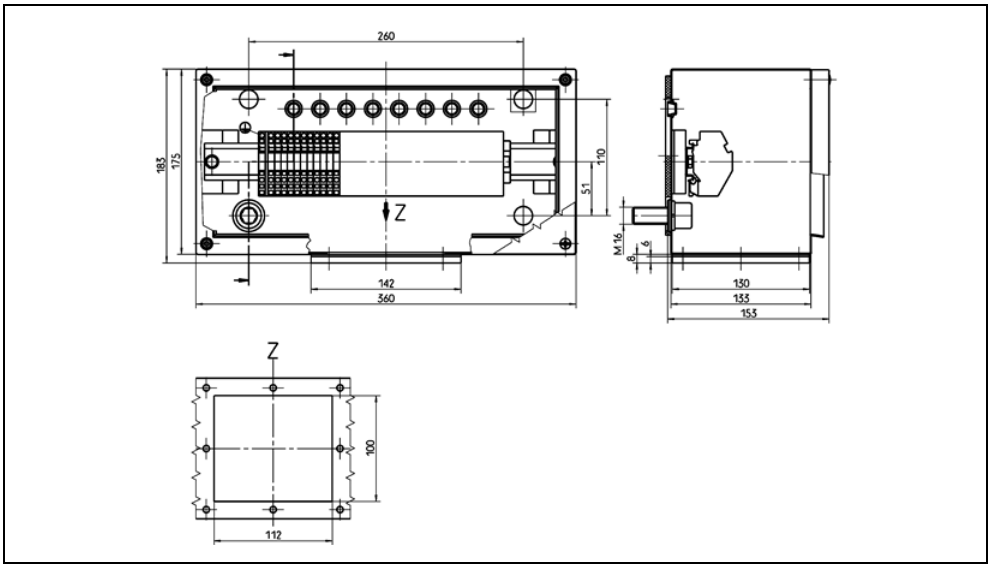

Figure 4-6 Auxiliary terminal box 1XB9 015 – stainless steel design

5 Bearing design

5.1 General

As standard, SIMOTICS HV C motors are equipped with anti-friction bearings.

All shaft heights can be equipped with sleeve bearings (exception: flameproof 1NC1 motors).

Bearings are generally outside the enclosure; therefore, it’s highly advised to monitor the bearing temperature, i.e. using bearing Pt100's.

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Couplings

SIMOTICS HV C motors are designed for operation with flexible couplings. The maximum permissible weight of coupling half can be found in the following table. If the weight is exceeded, the design must be checked by engineering.

Table 5-1 Maximum permissible weights of coupling half

Shaft end diameter [mm]	**Max. weight 2-pole** [kg]	**Max. weight ≥ 4-pole** [kg]
85	30	50
90	30	50
95	30	60
100	40	70
105	40	80
110	50	90
115	50	100
120	60	110
125	70	130
130	70	140
135	80	160
140	90	170
145	100	190
150	110	210
155	120	230
160	130	250
165	140	270
170	150	300
175	160	320
180	180	350
185	190	380
190	210	410
195	220	440
200	240	470
205	250	500
210	270	540
215	290	580

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5.2 Anti-friction bearing

5.2.1 Common features

Motors equipped with anti-friction bearings as standard have deep-groove ball bearings according to DIN 625, with angular-contact ball bearings to DIN 628 and/or cylindrical roller bearings to DIN 5412.

The outer bearing sealing is designed as a maintenance free seal, resulting in possible mechanical protection IP56 of SIMOTICS HV C motors.

The anti-friction bearings are lubricated with mineral-oil-based lithium soap grease. The bearings have a re-greasing device with flat grease nipple M10 x 1 to DIN 3404 and space for spent grease. This is large enough to cover the calculated bearing life when the re-greasing intervals and quantities are observed (lubrication data can be found on lubrication plate or in order documentation).

The bearings must be re-lubricated at appropriate intervals to ensure that they achieve their nominal service life (see table below). A version with spent grease removal is possible at an additional price on request.

Note

Anti-friction bearings of SIMOTICS HV C motors are designed for a bearing lifetime $L_{H10} \geq 40.000$ hours (standard conditions).

Increased bearing lifetime on request.

Increased lateral forces

The standard bearings are designed for the use of flexible couplings.

Bearings for increased lateral forces (e.g. belt drives, fans) will be designed according to actual forces provided by the customer.

Please provide at least the following parameters in the early offer stage:

- Maximum axial force on the motor shaft
- Maximum radial force on the motor shaft
- Distance between load application point and the shaft shoulder
- Required shaft end dimensions

Note

Locating bearings:
For horizontal and vertical motors, the locating bearing is at DE side by default.

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5.2.2 Overview of anti-friction bearing types and lubrication

Table 5-2 Overview of anti-friction bearing types and regreasing intervals, **1NA1 IC411** (DOL)

Mounting type	Machine type	Cooling type	Frame size	Pole number	Supply	Frequency	Speed (rpm)	Bearing type DE	Bearing type NDE	Overtemperature DE (K)	Overtemperature NDE (K)	values valid up to KT (°C)	Grease	Regreasing interval t (h)	Amount of grease at bearing DE (g)	Amount of grease at bearing NDE (g)
B3	1NA1	IC411	400	2	DOL	60	3600	6218	6218	40	30	45	Shell Gadus S2 V100	3700	40	40
B3	1NA1	IC411	400	2	DOL	50	3000	6218	6218	35	25	50	Shell Gadus S2 V100	4800	40	40
B3	1NA1	IC411	400	2	DOL	50	3000	6218	6218	35	25	50	Shell Gadus S2 V100	4800	40	40
B3	1NA1	IC411	400	4	DOL	60	1800	6224	6224	35	35	50	Shell Gadus S2 V100	7000	60	60
B3	1NA1	IC411	400	4	DOL	50	1500	6224	6224	35	35	50	Shell Gadus S2 V100	9000	60	60
B3	1NA1	IC411	400	4	DOL	50	1500	6224	6224	35	35	50	Shell Gadus S2 V100	9000	60	60
B3	1NA1	IC411	400	6	DOL	60	1200	6224	6224	35	35	50	Shell Gadus S2 V100	9000	60	60
B3	1NA1	IC411	400	6	DOL	50	1000	6224	6224	35	35	50	Shell Gadus S2 V100	9000	60	60
B3	1NA1	IC411	400	6	DOL	38	750	6224	6224	35	35	50	Shell Gadus S2 V100	9000	60	60
B3	1NA1	IC411	400	8	DOL	60	900	6224	6224	35	35	50	Shell Gadus S2 V100	9000	60	60
B3	1NA1	IC411	400	8	DOL	50	750	6224	6224	35	35	50	Shell Gadus S2 V100	9000	60	60
B3	1NA1	IC411	400	8	DOL	50	750	6224	6224	35	35	50	Shell Gadus S2 V100	9000	60	60
B3	1NA1	IC411	450	2	DOL	60	3600	6220	6220	40	40	45	Shell Gadus S2 V100	2000	30	30
B3	1NA1	IC411	450	2	DOL	50	3000	6220	6220	35	35	50	Shell Gadus S2 V100	4800	40	40
B3	1NA1	IC411	450	2	DOL	50	3000	6220	6220	35	35	50	Shell Gadus S2 V100	4800	40	40
B3	1NA1	IC411	450	4	DOL	60	1800	6226	6226	45	30	55	Shell Gadus S2 V100	7000	70	70
B3	1NA1	IC411	450	4	DOL	50	1500	6226	6226	40	25	45	Shell Gadus S2 V100	9000	70	70
B3	1NA1	IC411	450	4	DOL	50	1500	6226	6226	40	25	45	Shell Gadus S2 V100	9000	70	70
B3	1NA1	IC411	450	6	DOL	60	1200	6226	6226	40	35	45	Shell Gadus S2 V100	9000	70	70
B3	1NA1	IC411	450	6	DOL	50	1000	6226	6226	35	30	50	Shell Gadus S2 V100	9000	70	70
B3	1NA1	IC411	450	6	DOL	50	1000	6226	6226	35	30	50	Shell Gadus S2 V100	9000	70	70
B3	1NA1	IC411	450	8	DOL	60	900	6226	6226	35	30	50	Shell Gadus S2 V100	9000	70	70
B3	1NA1	IC411	450	8	DOL	50	750	6226	6226	30	25	55	Shell Gadus S2 V100	9000	70	70
B3	1NA1	IC411	450	8	DOL	50	750	6226	6226	30	25	55	Shell Gadus S2 V100	9000	70	70
B3	1NA1	IC411	500	2	DOL	50	3000	6224	6224	50	40	45	Lubcon Sintono GPE 702	2000	50	50
B3	1NA1	IC411	500	2	DOL	50	3000	6224	6224	50	40	45	Lubcon Sintono GPE 702	2000	50	50
B3	1NA1	IC411	500	4	DOL	60	1800	NU1030+6030	NU1028	40	35	45	Shell Gadus S2 V100	4800	100	40
B3	1NA1	IC411	500	4	DOL	50	1500	NU1030+6030	NU1028	35	30	50	Shell Gadus S2 V100	7000	100	50
B3	1NA1	IC411	500	4	DOL	50	1500	NU1030+6030	NU1028	35	30	50	Shell Gadus S2 V100	7000	100	50
B3	1NA1	IC411	500	6	DOL	60	1200	NU1030+6030	NU1028	40	35	45	Shell Gadus S2 V100	7000	100	40
B3	1NA1	IC411	500	6	DOL	50	1000	NU1030+6030	NU1028	35	30	50	Shell Gadus S2 V100	9000	100	50
B3	1NA1	IC411	500	6	DOL	50	1000	NU1030+6030	NU1028	35	30	50	Shell Gadus S2 V100	9000	100	50
B3	1NA1	IC411	500	8	DOL	60	900	NU1030+6030	NU1028	30	25	55	Shell Gadus S2 V100	9000	100	50
B3	1NA1	IC411	500	8	DOL	50	750	NU1030+6030	NU1028	30	25	55	Shell Gadus S2 V100	9000	100	40
B3	1NA1	IC411	500	8	DOL	50	750	NU1030+6030	NU1028	30	25	55	Shell Gadus S2 V100	9000	100	40
B3	1NA1	IC411	560	2	DOL	50	3000	6226	6226	65	70	45	Lubcon Sintono GPE 702	1400	60	60
B3	1NA1	IC411	560	2	DOL	50	3000	6226	6226	65	70	45	Lubcon Sintono GPE 702	1400	60	60
B3	1NA1	IC411	560	4	DOL	60	1800	NU1034+6034	NU1032	55	45	60	Shell Gadus S2 V100	2000	100	30
B3	1NA1	IC411	560	4	DOL	50	1500	NU1034+6034	NU1032	50	40	45	Shell Gadus S2 V100	2400	100	30
B3	1NA1	IC411	560	4	DOL	50	1500	NU1034+6034	NU1032	50	40	45	Shell Gadus S2 V100	2400	100	30
B3	1NA1	IC411	560	6	DOL	60	1200	NU1034+6034	NU1032	45	35	50	Shell Gadus S2 V100	7000	120	60
B3	1NA1	IC411	560	6	DOL	50	1000	NU1034+6034	NU1032	40	30	45	Shell Gadus S2 V100	7000	120	50
B3	1NA1	IC411	560	6	DOL	50	1000	NU1034+6034	NU1032	40	30	45	Shell Gadus S2 V100	7000	120	50
B3	1NA1	IC411	560	8	DOL	60	900	NU1034+6034	NU1032	35	25	50	Shell Gadus S2 V100	9000	120	60
B3	1NA1	IC411	560	8	DOL	50	750	NU1034+6034	NU1032	30	25	55	Shell Gadus S2 V100	9000	120	60
B3	1NA1	IC411	560	8	DOL	50	750	NU1034+6034	NU1032	30	25	55	Shell Gadus S2 V100	9000	120	60
V1	1NA1	IC411	400	2	DOL	50	3000	7218 B+6218	6218	45	45	70	Shell Gadus S2 V100	3900	70	40
V1	1NA1	IC411	400	2	DOL	50	3000	7218 B+6218	6218	45	45	70	Shell Gadus S2 V100	3900	70	40
V1	1NA1	IC411	400	4	DOL	50	1500	7226 B+6226	6224	45	45	70	Shell Gadus S2 V100	5600	130	50
V1	1NA1	IC411	400	4	DOL	50	1500	7226 B+6226	6224	45	45	70	Shell Gadus S2 V100	5600	130	50
V1	1NA1	IC411	400	6	DOL	50	1000	7218 B+6218	6218	45	45	70	Shell Gadus S2 V100	9000	70	30
V1	1NA1	IC411	400	6	DOL	38	750	7226 B+6226	6224	45	45	70	Shell Gadus S2 V100	9000	130	60
V1	1NA1	IC411	400	8	DOL	50	750	7226 B+6226	6224	45	45	70	Shell Gadus S2 V100	9000	130	60
V1	1NA1	IC411	400	8	DOL	50	750	7226 B+6226	6224	45	45	70	Shell Gadus S2 V100	9000	130	60
V1	1NA1	IC411	450	4	DOL	60	1800	7226 B+6226	6226	60	35	50	Shell Gadus S2 V100	2000	100	30
V1	1NA1	IC411	450	4	DOL	50	1500	7226 B+6226	6226	55	30	55	Shell Gadus S2 V100	2800	100	30
V1	1NA1	IC411	450	4	DOL	50	1500	7226 B+6226	6226	55	30	55	Shell Gadus S2 V100	2800	100	30
V1	1NA1	IC411	450	6	DOL	60	1200	7226 B+6226	6226	50	40	45	Shell Gadus S2 V100	3800	100	40
V1	1NA1	IC411	450	6	DOL	50	1000	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	7600	130	50
V1	1NA1	IC411	450	6	DOL	50	1000	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	7600	130	50
V1	1NA1	IC411	450	8	DOL	60	900	7226 B+6226	6226	50	40	45	Shell Gadus S2 V100	3800	100	30
V1	1NA1	IC411	450	8	DOL	50	750	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	9000	130	70
V1	1NA1	IC411	450	8	DOL	50	750	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	9000	130	70
V1	1NA1	IC411	500	4	DOL	60	1800	7230 B+6230	6226	50	40	45	Shell Gadus S2 V100	1000	130	20
V1	1NA1	IC411	500	4	DOL	50	1500	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	3900	160	40
V1	1NA1	IC411	500	4	DOL	50	1500	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	3900	160	40
V1	1NA1	IC411	500	6	DOL	60	1200	7230 B+6230	6226	50	40	45	Shell Gadus S2 V100	2800	130	30
V1	1NA1	IC411	500	6	DOL	50	1000	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	7600	160	50
V1	1NA1	IC411	500	6	DOL	50	1000	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	7600	160	50
V1	1NA1	IC411	500	8	DOL	60	900	7230 B+6230	6226	50	40	45	Shell Gadus S2 V100	3800	130	30
V1	1NA1	IC411	500	8	DOL	50	750	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	9000	160	70
V1	1NA1	IC411	500	8	DOL	50	750	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	9000	160	70
V1	1NA1	IC411	560	4	DOL	60	1800	7234 B+6234	6226	65	35	50	Shell Gadus S2 V100	1000	160	20
V1	1NA1	IC411	560	4	DOL	50	1500	7234 B+6234	6226	60	30	55	Shell Gadus S2 V100	1600	160	20
V1	1NA1	IC411	560	4	DOL	50	1500	7234 B+6234	6226	60	30	55	Shell Gadus S2 V100	1600	160	20
V1	1NA1	IC411	560	6	DOL	60	1200	7234 B+6234	6226	50	40	45	Shell Gadus S2 V100	2800	160	30
V1	1NA1	IC411	560	6	DOL	50	1000	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	5600	190	40
V1	1NA1	IC411	560	6	DOL	50	1000	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	5600	190	40
V1	1NA1	IC411	560	8	DOL	60	900	7234 B+6234	6226	50	40	45	Shell Gadus S2 V100	3800	160	30
V1	1NA1	IC411	560	8	DOL	50	750	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	7600	190	50
V1	1NA1	IC411	560	8	DOL	50	750	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	7600	190	50

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Table 5-3 Overview of anti-friction bearing types and regreasing intervals, **1NA1 IC71W** (DOL)

Mounting type	Machine type	Cooling type	Frame size	Pole number	Supply	Frequency	Speed (rpm)	Bearing type DE	Bearing type NDE	Overtemperature DE (K)	Overtemperature NDE (K)	values valid up to KT (°C)	Grease	Regreasing interval t (h)	Amount of grease at bearing DE (g)	Amount of grease at bearing NDE (g)
B3	1NA1	IC71W	400	2	DOL	60	3600	6218	6218	40	45	45	Lubcon Sintono GPE 702	3700	40	40
B3	1NA1	IC71W	400	2	DOL	50	3000	6218	6218	40	45	45	Lubcon Sintono GPE 702	4800	40	40
B3	1NA1	IC71W	400	4	DOL	60	1800	6224	6224	40	40	45	Lubcon Sintono GPE 702	7000	60	60
B3	1NA1	IC71W	400	4	DOL	50	1500	6224	6224	40	45	45	Lubcon Sintono GPE 702	9000	60	60
B3	1NA1	IC71W	400	6	DOL	60	1200	6224	6224	40	45	45	Lubcon Sintono GPE 702	9000	60	60
B3	1NA1	IC71W	400	6	DOL	50	1000	6224	6224	40	45	45	Lubcon Sintono GPE 702	9000	60	60
B3	1NA1	IC71W	400	6	DOL	38	750	6224	6224	40	45	45	Lubcon Sintono GPE 702	9000	60	60
B3	1NA1	IC71W	400	8	DOL	60	900	6224	6224	40	40	45	Lubcon Sintono GPE 702	9000	60	60
B3	1NA1	IC71W	400	8	DOL	50	750	6224	6224	40	45	45	Lubcon Sintono GPE 702	9000	60	60
B3	1NA1	IC71W	450	2	DOL	60	3600	6220	6220	50	75	o.r.	Lubcon Sintono GPE 702	1000	30	30
B3	1NA1	IC71W	450	2	DOL	50	3000	6220	6220	40	70	45	Lubcon Sintono GPE 702	4800	40	40
B3	1NA1	IC71W	450	4	DOL	60	1800	6226	6226	45	55	60	Lubcon Sintono GPE 702	7000	70	70
B3	1NA1	IC71W	450	4	DOL	50	1500	6226	6226	40	50	45	Lubcon Sintono GPE 702	9000	70	70
B3	1NA1	IC71W	450	6	DOL	60	1200	6226	6226	50	70	45	Lubcon Sintono GPE 702	9000	70	70
B3	1NA1	IC71W	450	6	DOL	50	1000	6226	6226	50	70	45	Lubcon Sintono GPE 702	9000	70	70
B3	1NA1	IC71W	450	8	DOL	60	900	6226	6226	50	70	45	Lubcon Sintono GPE 702	9000	70	70
B3	1NA1	IC71W	450	8	DOL	50	750	6226	6226	50	70	45	Lubcon Sintono GPE 702	9000	70	70
B3	1NA1	IC71W	500	2	DOL	50	3000	6224	6224	60	70	45	Lubcon Sintono GPE 702	2000	50	50
B3	1NA1	IC71W	500	4	DOL	60	1800	NU1030+6030	NU1028	50	70	45	Lubcon Sintono GPE 702	4800	100	40
B3	1NA1	IC71W	500	4	DOL	50	1500	NU1030+6030	NU1028	50	60	55	Lubcon Sintono GPE 702	7000	100	50
B3	1NA1	IC71W	500	6	DOL	60	1200	NU1030+6030	NU1028	50	70	45	Lubcon Sintono GPE 702	7000	100	40
B3	1NA1	IC71W	500	6	DOL	50	1000	NU1030+6030	NU1028	50	70	45	Lubcon Sintono GPE 702	9000	100	50
B3	1NA1	IC71W	500	8	DOL	60	900	NU1030+6030	NU1028	50	70	45	Lubcon Sintono GPE 702	9000	100	50
B3	1NA1	IC71W	500	8	DOL	50	750	NU1030+6030	NU1028	50	70	45	Lubcon Sintono GPE 702	9000	100	40
B3	1NA1	IC71W	560	2	DOL	50	3000	6226	6226	65	70	45	Lubcon Sintono GPE 702	1400	60	60
B3	1NA1	IC71W	560	4	DOL	60	1800	NU1034+6034	NU1032	50	70	45	Lubcon Sintono GPE 702	3700	120	50
B3	1NA1	IC71W	560	4	DOL	50	1500	NU1034+6034	NU1032	50	70	45	Lubcon Sintono GPE 702	4800	120	60
B3	1NA1	IC71W	560	6	DOL	60	1200	NU1034+6034	NU1032	50	70	45	Lubcon Sintono GPE 702	7000	120	60
B3	1NA1	IC71W	560	6	DOL	50	1000	NU1034+6034	NU1032	50	70	45	Lubcon Sintono GPE 702	7000	120	50
B3	1NA1	IC71W	560	8	DOL	60	900	NU1034+6034	NU1032	50	70	45	Lubcon Sintono GPE 702	9000	120	60
B3	1NA1	IC71W	560	8	DOL	50	750	NU1034+6034	NU1032	50	70	45	Lubcon Sintono GPE 702	9000	120	60
V1	1NA1	IC71W	400	2	DOL	50	3000	7218 B+6218	6218	45	45	70	Lubcon Sintono GPE 702	3900	70	40
V1	1NA1	IC71W	400	4	DOL	60	1800	7226 B+6226	6224	45	45	70	Lubcon Sintono GPE 702	3900	130	40
V1	1NA1	IC71W	400	4	DOL	50	1500	7226 B+6226	6224	45	45	70	Lubcon Sintono GPE 702	5600	130	50
V1	1NA1	IC71W	400	6	DOL	60	1200	7218 B+6218	6218	45	45	70	Lubcon Sintono GPE 702	9000	70	40
V1	1NA1	IC71W	400	6	DOL	50	1000	7218 B+6218	6218	45	45	70	Lubcon Sintono GPE 702	9000	70	30
V1	1NA1	IC71W	400	6	DOL	38	750	7226 B+6226	6224	45	45	70	Lubcon Sintono GPE 702	9000	130	60
V1	1NA1	IC71W	400	8	DOL	60	900	7226 B+6226	6224	45	45	70	Lubcon Sintono GPE 702	7600	130	40
V1	1NA1	IC71W	400	8	DOL	50	750	7226 B+6226	6224	45	45	70	Lubcon Sintono GPE 702	9000	130	60
V1	1NA1	IC71W	450	4	DOL	60	1800	7226 B+6226	6226	55	60	55	Lubcon Sintono GPE 702	3900	130	50
V1	1NA1	IC71W	450	4	DOL	50	1500	7226 B+6226	6226	40	55	45	Lubcon Sintono GPE 702	5600	130	60
V1	1NA1	IC71W	450	6	DOL	60	1200	7226 B+6226	6226	50	70	45	Lubcon Sintono GPE 702	7600	130	70
V1	1NA1	IC71W	450	6	DOL	50	1000	7226 B+6226	6226	50	70	45	Lubcon Sintono GPE 702	7600	130	50
V1	1NA1	IC71W	450	8	DOL	60	900	7226 B+6226	6226	50	70	45	Lubcon Sintono GPE 702	7600	130	50
V1	1NA1	IC71W	450	8	DOL	50	750	7226 B+6226	6226	50	70	45	Lubcon Sintono GPE 702	9000	130	70
V1	1NA1	IC71W	500	4	DOL	60	1800	7230 B+6230	6226	50	70	45	Lubcon Sintono GPE 702	2000	160	30
V1	1NA1	IC71W	500	4	DOL	50	1500	7230 B+6230	6226	50	70	45	Lubcon Sintono GPE 702	3900	160	40
V1	1NA1	IC71W	500	6	DOL	60	1200	7230 B+6230	6226	50	70	45	Lubcon Sintono GPE 702	5600	160	60
V1	1NA1	IC71W	500	6	DOL	50	1000	7230 B+6230	6226	50	70	45	Lubcon Sintono GPE 702	7600	160	50
V1	1NA1	IC71W	500	8	DOL	60	900	7230 B+6230	6226	50	70	45	Lubcon Sintono GPE 702	7600	160	50
V1	1NA1	IC71W	500	8	DOL	50	750	7230 B+6230	6226	50	70	45	Lubcon Sintono GPE 702	9000	160	70
V1	1NA1	IC71W	560	4	DOL	60	1800	7234 B+6234	6226	50	70	45	Lubcon Sintono GPE 702	2000	190	30
V1	1NA1	IC71W	560	4	DOL	50	1500	7234 B+6234	6226	50	70	45	Lubcon Sintono GPE 702	3000	190	30
V1	1NA1	IC71W	560	6	DOL	60	1200	7234 B+6234	6226	50	70	45	Lubcon Sintono GPE 702	5600	190	60
V1	1NA1	IC71W	560	6	DOL	50	1000	7234 B+6234	6226	50	70	45	Lubcon Sintono GPE 702	5600	190	40
V1	1NA1	IC71W	560	8	DOL	60	900	7234 B+6234	6226	50	70	45	Lubcon Sintono GPE 702	7600	190	50
V1	1NA1	IC71W	560	8	DOL	50	750	7234 B+6234	6226	50	70	45	Lubcon Sintono GPE 702	7600	190	50

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Table 5-4 Overview of anti-friction bearing types and regreasing intervals, **1NB1 IC411** (DOL)

Mounting type	Machine type	Cooling type	Frame size	Pole number	Supply	Frequency	Speed (rpm)	Bearing type DE	Bearing type NDE	Overtemperature DE (K)	Overtemperature NDE (K)	values valid up to KT (°C)	Grease	Regreasing interval t (h)	Amount of grease at bearing DE (g)	Amount of grease at bearing NDE (g
B3	1NB1	IC411	400	2	DOL	60	3600	6220	6220	30	30	55	Lubcon Sintono GPE 702	2000	30	30
B3	1NB1	IC411	400	2	DOL	50	3000	6220	6220	30	30	55	Shell Gadus S2 V100	4800	40	40
B3	1NB1	IC411	400	2	DOL	50	3000	6220	6220	30	30	55	Shell Gadus S2 V100	4800	40	40
B3	1NB1	IC411	400	4	DOL	60	1800	6226	6224	35	25	50	Shell Gadus S2 V100	7000	70	60
B3	1NB1	IC411	400	4	DOL	50	1500	6226	6224	30	20	55	Shell Gadus S2 V100	9000	70	60
B3	1NB1	IC411	400	4	DOL	50	1500	6226	6224	30	20	55	Shell Gadus S2 V100	9000	70	60
B3	1NB1	IC411	400	6	DOL	60	1200	6226	6224	35	20	50	Shell Gadus S2 V100	9000	70	60
B3	1NB1	IC411	400	6	DOL	50	1000	6226	6224	30	15	55	Shell Gadus S2 V100	9000	70	60
B3	1NB1	IC411	400	8	DOL	60	900	6226	6224	45	35	50	Shell Gadus S2 V100	9000	70	60
B3	1NB1	IC411	400	8	DOL	50	750	6226	6224	40	30	45	Shell Gadus S2 V100	9000	70	60
B3	1NB1	IC411	400	8	DOL	50	750	6226	6224	40	30	45	Shell Gadus S2 V100	9000	70	60
B3	1NB1	IC411	450	2	DOL	60	3600	6220	6220	35	30	50	Lubcon Sintono GPE 702	2000	30	30
B3	1NB1	IC411	450	2	DOL	50	3000	6220	6220	30	25	55	Shell Gadus S2 V100	4800	40	40
B3	1NB1	IC411	450	2	DOL	50	3000	6220	6220	30	25	55	Shell Gadus S2 V100	4800	40	40
B3	1NB1	IC411	450	4	DOL	60	1800	6226	6226	45	35	50	Shell Gadus S2 V100	7000	70	70
B3	1NB1	IC411	450	4	DOL	50	1500	6226	6226	40	30	45	Shell Gadus S2 V100	9000	70	70
B3	1NB1	IC411	450	4	DOL	50	1500	6226	6226	40	30	45	Shell Gadus S2 V100	9000	70	70
B3	1NB1	IC411	450	6	DOL	60	1200	6226	6226	45	35	50	Shell Gadus S2 V100	9000	70	70
B3	1NB1	IC411	450	6	DOL	50	1000	6226	6226	30	30	55	Shell Gadus S2 V100	9000	70	70
B3	1NB1	IC411	450	6	DOL	50	1000	6226	6226	30	30	55	Shell Gadus S2 V100	9000	70	70
B3	1NB1	IC411	450	8	DOL	60	900	6226	6226	35	30	50	Shell Gadus S2 V100	9000	70	70
B3	1NB1	IC411	450	8	DOL	50	750	6226	6226	30	25	55	Shell Gadus S2 V100	9000	70	70
B3	1NB1	IC411	450	8	DOL	50	750	6226	6226	30	25	55	Shell Gadus S2 V100	9000	70	70
B3	1NB1	IC411	500	2	DOL	50	3000	6224	6224	45	25	60	Lubcon Sintono GPE 702	2000	50	50
B3	1NB1	IC411	500	2	DOL	50	3000	6224	6224	45	25	60	Lubcon Sintono GPE 702	2000	50	50
B3	1NB1	IC411	500	4	DOL	60	1800	NU1030+6030	NU1028	40	30	45	Shell Gadus S2 V100	4800	100	40
B3	1NB1	IC411	500	4	DOL	50	1500	NU1030+6030	NU1028	35	25	50	Shell Gadus S2 V100	7000	100	50
B3	1NB1	IC411	500	4	DOL	50	1500	NU1030+6030	NU1028	35	25	50	Shell Gadus S2 V100	7000	100	50
B3	1NB1	IC411	500	6	DOL	60	1200	NU1030+6030	NU1028	40	30	45	Shell Gadus S2 V100	7000	100	40
B3	1NB1	IC411	500	6	DOL	50	1000	NU1030+6030	NU1028	35	25	50	Shell Gadus S2 V100	9000	100	50
B3	1NB1	IC411	500	6	DOL	50	1000	NU1030+6030	NU1028	35	25	50	Shell Gadus S2 V100	9000	100	50
B3	1NB1	IC411	500	8	DOL	60	900	NU1030+6030	NU1028	30	25	55	Shell Gadus S2 V100	9000	100	50
B3	1NB1	IC411	500	8	DOL	50	750	NU1030+6030	NU1028	30	25	55	Shell Gadus S2 V100	9000	100	40
B3	1NB1	IC411	500	8	DOL	50	750	NU1030+6030	NU1028	30	25	55	Shell Gadus S2 V100	9000	100	40
B3	1NB1	IC411	560	2	DOL	50	3000	6226	6226	45	25	60	Lubcon Sintono GPE 702	1400	60	60
B3	1NB1	IC411	560	2	DOL	50	3000	6226	6226	45	25	60	Lubcon Sintono GPE 702	1400	60	60
B3	1NB1	IC411	560	4	DOL	60	1800	NU1034+6034	NU1034	50	40	45	Shell Gadus S2 V100	2000	100	40
B3	1NB1	IC411	560	4	DOL	50	1500	NU1034+6034	NU1034	50	40	45	Shell Gadus S2 V100	2400	100	30
B3	1NB1	IC411	560	4	DOL	50	1500	NU1034+6034	NU1034	50	40	45	Shell Gadus S2 V100	2400	100	30
B3	1NB1	IC411	560	6	DOL	60	1200	NU1034+6034	NU1034	35	30	50	Shell Gadus S2 V100	7000	120	60
B3	1NB1	IC411	560	6	DOL	50	1000	NU1034+6034	NU1034	35	30	50	Shell Gadus S2 V100	7000	120	60
B3	1NB1	IC411	560	6	DOL	50	1000	NU1034+6034	NU1034	35	30	50	Shell Gadus S2 V100	7000	120	60
B3	1NB1	IC411	560	8	DOL	60	900	NU1034+6034	NU1034	30	25	55	Shell Gadus S2 V100	9000	120	60
B3	1NB1	IC411	560	8	DOL	50	750	NU1034+6034	NU1034	30	25	55	Shell Gadus S2 V100	9000	120	60
B3	1NB1	IC411	560	8	DOL	50	750	NU1034+6034	NU1034	30	25	55	Shell Gadus S2 V100	9000	120	60
V1	1NB1	IC411	400	2	DOL	50	3000	7220 B+6220	6220	35	25	50	Shell Gadus S2 V100	3000	80	40
V1	1NB1	IC411	400	2	DOL	50	3000	7220 B+6220	6220	35	25	50	Shell Gadus S2 V100	3000	80	40
V1	1NB1	IC411	400	4	DOL	50	1500	7226 B+6226	6224	58	30	55	Shell Gadus S2 V100	2800	100	30
V1	1NB1	IC411	400	4	DOL	50	1500	7226 B+6226	6224	58	30	55	Shell Gadus S2 V100	2800	100	30
V1	1NB1	IC411	400	6	DOL	50	1000	7226 B+6226	6224	45	35	50	Shell Gadus S2 V100	7600	130	40
V1	1NB1	IC411	400	8	DOL	50	750	7226 B+6226	6224	40	30	45	Shell Gadus S2 V100	9000	130	60
V1	1NB1	IC411	400	8	DOL	50	750	7226 B+6226	6224	40	30	45	Shell Gadus S2 V100	9000	130	60
V1	1NB1	IC411	450	4	DOL	60	1800	7226 B+6226	6226	58	30	55	Shell Gadus S2 V100	2000	100	30
V1	1NB1	IC411	450	4	DOL	50	1500	7226 B+6226	6226	58	30	55	Shell Gadus S2 V100	2800	100	30
V1	1NB1	IC411	450	4	DOL	50	1500	7226 B+6226	6226	58	30	55	Shell Gadus S2 V100	2800	100	30
V1	1NB1	IC411	450	6	DOL	60	1200	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	7600	130	70
V1	1NB1	IC411	450	6	DOL	50	1000	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	7600	130	50
V1	1NB1	IC411	450	6	DOL	50	1000	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	7600	130	50
V1	1NB1	IC411	450	8	DOL	60	900	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	7600	130	50
V1	1NB1	IC411	450	8	DOL	50	750	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	9000	130	70
V1	1NB1	IC411	450	8	DOL	50	750	7226 B+6226	6226	45	35	50	Shell Gadus S2 V100	9000	130	70
V1	1NB1	IC411	500	4	DOL	60	1800	7230 B+6230	6226	60	30	55	Shell Gadus S2 V100	1000	130	20
V1	1NB1	IC411	500	4	DOL	50	1500	7230 B+6230	6226	60	30	55	Shell Gadus S2 V100	2000	130	20
V1	1NB1	IC411	500	4	DOL	50	1500	7230 B+6230	6226	60	30	55	Shell Gadus S2 V100	2000	130	20
V1	1NB1	IC411	500	6	DOL	60	1200	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	5600	160	60
V1	1NB1	IC411	500	6	DOL	50	1000	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	7600	160	50
V1	1NB1	IC411	500	6	DOL	50	1000	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	7600	160	50
V1	1NB1	IC411	500	8	DOL	60	900	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	7600	160	50
V1	1NB1	IC411	500	8	DOL	50	750	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	9000	160	70
V1	1NB1	IC411	500	8	DOL	50	750	7230 B+6230	6226	45	35	50	Shell Gadus S2 V100	9000	160	70
V1	1NB1	IC411	560	4	DOL	60	1800	7234 B+6234	6226	50	40	45	Shell Gadus S2 V100	1000	160	20
V1	1NB1	IC411	560	4	DOL	50	1500	7234 B+6234	6226	60	30	55	Shell Gadus S2 V100	1600	160	20
V1	1NB1	IC411	560	4	DOL	50	1500	7234 B+6234	6226	60	30	55	Shell Gadus S2 V100	1600	160	20
V1	1NB1	IC411	560	6	DOL	60	1200	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	5600	190	60
V1	1NB1	IC411	560	6	DOL	50	1000	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	5600	190	40
V1	1NB1	IC411	560	6	DOL	50	1000	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	5600	190	40
V1	1NB1	IC411	560	8	DOL	60	900	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	7600	190	50
V1	1NB1	IC411	560	8	DOL	50	750	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	7600	190	50
V1	1NB1	IC411	560	8	DOL	50	750	7234 B+6234	6226	45	35	50	Shell Gadus S2 V100	7600	190	50

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Table 5-5 Overview of anti-friction bearing types and regreasing intervals, **1NC1 IC411** (DOL); values for **shaft height 355** also apply to **1NB1**

Mounting type	Shaft height	Poles	Bearing DE	Regreasing DE		Bearing NDE	Regreasing NDE	
				Time [h]	Quantity [g]		Time [h]	Quantity [g]
IM B3	355	2	6316 C3	4000	35	6316 C3	4000	35
		4	6322 C3	5600	60		5600	
		6		8000			8000	
		8						
	400	2	NU1022 C3 + 6022 C3	2000	35	NU1022 C3	2000	25
		4	NU1026 + 6026	4000	50	NU1026	4000	35
		6		5600			5600	
		8		8000			8000	
	450	2	NU1022 C3 + 6022 C3	2000	35	NU1022 C3	2000	25
		4	NU1026 + 6026	4000	50	NU1026	4000	35
		6		5600			5600	
		8		8000			8000	
	500	2	NU1024 C3 + 6024 C3	2000	40	NU1024 C3	2000	30
		4	NU1030 + 6030	2800	60	NU1030	2800	40
		6		4000			4000	
		8		5600			5600	
	560	2	NU1026 P5NH + 6026 C3	2000	50	NU1026 P5NH	2000	35
		4	NU1034 + 6034	2800	75	NU1034	2800	50
		6		4000			4000	
		8		5600			5600	
IM V1	355	2	6320 C3	2000	50	6316 C3	2000	35
		4	6322 C3	4000	60		4000	
		6		5600			5600	
		8						
	400	2	7220 + 6220 C3	1400	45	NU1022 C3	1400	25
		4	7226 +6226	2000	65		2000	
		6		2800			2800	
		8		4000			4000	
	450	2	7220 + 6220 C3	1400	45	NU1022 C3	1400	25
		4	7226 +6226	2000	65		2000	
		6		2800			2800	
		8		4000			4000	
	500	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		4	7230 + 6230	1400	90	NU1026	2800	35
		6		2000			4000	
		8		2800			5600	
	560	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		4	7234 + 6234	1400	120	NU1026	2800	35
		6		2000			4000	
		8		2800			5600	

valid for 50Hz

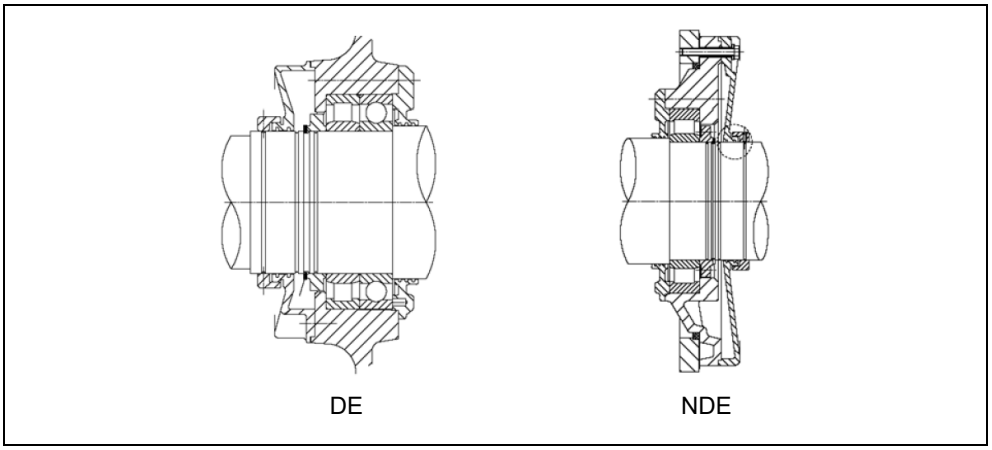

Figure 5-1 Generic anti-friction bearing design in the IM B3 construction type

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5.3 Sleeve bearing

5.3.1 Common features

All SIMOTICS HV C motors in shaft height 400 and above can be supplied with sleeve bearings as alternative to anti-friction bearings (exception: flameproof 1NC1 motors). See section 5.3.2 for details on availability.

Basically, there are two main groups of sleeve bearings:

- Self-lubricated design
- Forced-lubricated design

The selection of the lubrication system is depending on several factors, like the following:

- Bearing load (radial/axial)
- Rotation speed
- Peripheral speed
- Ambient conditions
- Oil viscosity
- Bearing insulation

An overview of the standard selections of sleeve bearings and lubrication can be found in section 5.3.2.

In case of non-standard conditions or special customer requests the sleeve bearing cooling and lubrication must be checked by the engineering department.

If forced lubrication design is used, the external oil supply system must be provided by the customer on site (not included in our scope of supply!).

Both sleeve bearings have standard axial clearance of ±3.5 mm (IC71W, floating design) resp. ±4.0 mm (IC411 flameproof, floating design), maximum possible axial clearance ±6.5 mm.

The customer has to use a coupling with integrated axial backlash limitation (±1.0 mm).

On special request sleeve bearings with integrated axial backlash limitation (used as locating bearing) are possible.

Note

Low temperature operation/oil sump heating:

Motors with sleeve bearings must use special oil or be equipped with oil sump heating for operation below permitted temperature. See section 5.3.2 for details about permitted temperatures.

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5.3.2 Overview of sleeve bearing types and lubrication

Assignment of sleeve bearing types and cooling designs to the shaft heights

Find the assignment of standard sleeve bearing types, lubrication systems, oil viscosity, maximum oil inlet temperature and radial forces in the tables below.

The tables are based on standard conditions with no insulated bearing DE, additional bearing loads, external vibrations, motor inclination, low temperature requirements, etc.

Table 5-6 Overview of sleeve bearing types **1NA1 IC411**, standard conditions

Shaft height	Number of poles	Bearing type DE	Bearing type NDE
450	**2**	EM 9Sx90	EM 9Sx90
	4	EF 11x110	EF 11x110
	>=6	EF 11x125	EF 11x110
500	**2**	EM 9Sx100	EM 9Sx100
	4	EF 11x125	EF 11x125
	>=6	EF 14x140	EF 11x125
560	**2**	EF 11x110	EF 11x110
	4	EF 14x140	EF 11x125
	>=6	EF 14x160	EF 11x125

Table 5-7 Overview of sleeve bearing types **1NA1 IC71W**, standard conditions

Shaft height	Number of poles	Bearing type DE	Bearing type NDE
450	**4**	EF 11x110	EF 11x110
	>=6	EF 11x125	EF 11x110
500	**4**	EF 11x125	EF 11x125
	>=6	EF 14x140	EF 11x125
560	**4**	EF 14x140	EF 11x125
	>=6	EF 14x160	EF 11x125

Table 5-8 Overview of sleeve bearing types **1NB1 IC411**, standard conditions

Shaft height	Number of poles	Bearing type DE	Bearing type NDE
400	**2**	EF 9x80	EF 9x80
	>=4	EF 11x110	EF 9x80
450	**2**	EF 9x80	EF 9x80
	>=4	EF 11x110	EF 9x80
500	**2**	EF 11x100	EF 9x80
	>=4	EF 11x125	EF 9x80
560	**2**	EF 11x100	EF 9x80
	>=4	EF 14x140	EF 9x80

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Minimum starting temperature of sleeve bearing motors

Starting of sleeve bearing motors is not permitted if the temperature detected by the Pt100 sensor in the bearing shell is below the minimum temperature. Motors with sleeve bearings must use special oil or be equipped with oil sump heating for starting and operation below permitted temperature.

The minimum starting temperature of the bearing is determined by the factory and mostly depending on the oil viscosity.

See the following table for permitted starting temperatures based on standard conditions with no additional bearing loads, external vibrations, motor inclination, etc.

Table 5-9 Minimum starting temperature with sleeve bearing design

Oil viscosity	Minimum starting temperature [°C]
ISO VG 13 [1)]	–25 [2)]
ISO VG 22	–15
ISO VG 32	–10
ISO VG 46	–5

1) Synthetic oil

2) Please contact your Siemens sales partner.

5.3.3 Sleeve bearing special design

Note

A wide variety of special options for sleeve bearings is available. Therefore on request even challenging demands can be met.

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6 Vibrational behavior

Bearing housing vibrations

Motors comply with vibration grade A according to IEC 60034-14 as standard. Compliance with vibration grade B according to IEC 60034-14 is possible optional.

The specified vibration severity grades apply to types of construction IM B3 and IM V1. Values for other mounting types are available on request.

The vibration severity measurement is carried out in the test field under the following conditions:

- Rated voltage
- In uncoupled state in no-load operation
- Mounting in accordance with the applicable standards

The vibration response of the system may cause variations in the following vibration values at the installation site. Vibration values are influenced by the following factors:

- Drive elements
- Alignment
- Mounting (foundation, especially its rigidity)
- Effects of external vibration

Table 6-1 Vibration severity for rigid foundations permissible according to IEC/EN 60034-14:2018-08

Vibration severity	S_{eff} [µm]	V_{eff} [mm/s]
Grade A	37	2.3 2.8 [1)]
Grade B	24	1.5 1.8 [1)]

1) Limit when the twice line frequency vibration level is dominant

Grade A is applied for motors without any special vibration requirements, while Grade B is mostly used for motors with special vibration requirements.

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Shaft vibrations at sleeve bearing motors

The shaft vibration on machines with sleeve bearings complies with IEC/EN 60034-14 Grade A. Grade B is available as an option.

Table 6-2 Permissible shaft vibration and run-out according to IEC/EN 60034-14:2018-08

Vibration severity	Speed range [rpm]	Maximum relative shaft vibration [µm]	Maximum permissible run-out [µm]
Grade A	> 1800	65	16
	≤ 1800	90	23
Grade B	>1800	50	12.5
	≤ 1800	65	16

Lower run-out values (e.g. API) are possible on request.

Note
For converter fed motors, the vibration values above are only valid and measured at minimum and maximum speed of the agreed speed range.

Mounting

The corresponding mounting shims can be used and can be delivered in brass or stainless steel. Laminated stainless steel shims are available on request.

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7 Cooling

7.1 Water-jacket-cooled motors

The largest portion of motor heat losses is dissipated by heat conduction from the stator core to the water jacket. This intensively cools the stator.

The internal cooling circuit, driven by an internal fan at the NDE, works additionally to dissipate the heat from the rotor and stator winding overhangs to the water jacket.

The internal air is sucked in through ventilation holes in the rotor, circulated around the NDE enclosure space and intensively re-cooled on the internal ribs of the water jacket and end shield. The internal air then flows back to the DE through the gap between water jacket and housing.

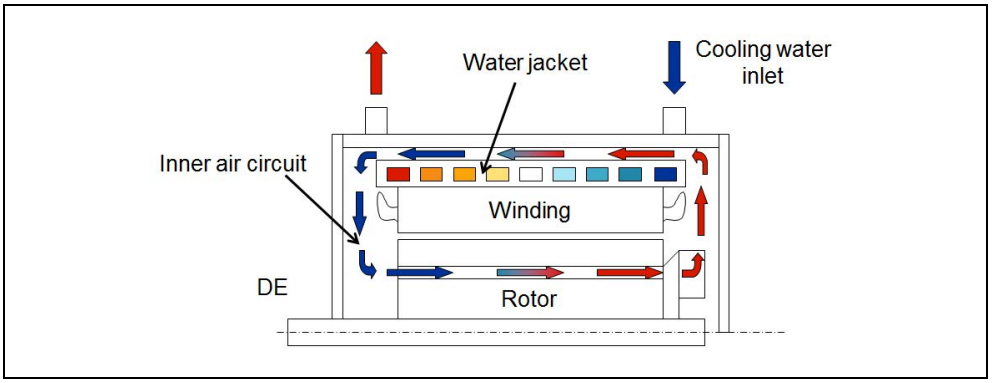

Figure 7-1 SIMOTICS HV C water jacket cooling principle IC71W

As standard, the water jacket can be chemically cleaned with a nominal pressure of 10 bar and a test pressure of 15 bar; different pressures on request. The system can be vented and emptied using drain plugs.

The air-water heat exchanger is designed for a standard water intake temperature of +25 °C (higher water temperatures on request).

Cooling water quality

The cooling water must circulate in a closed cooling circuit. Fluctuations in the oxygen content of the cooling water shall be avoided.

The cooling system is maintenance-free, if cooling water of the specified quality is used.

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Table 7-1 Cooling water specification SIMOTICS HV C, IC71W cooling method

Characteristic	Specified as	Measured value	German unitary procedure	Currently ISO / alternative
pH	–	7.5 … 10	DIN 38404-5 (Z)	ISO 10523
Conductivity	–	< 600 µS/cm	DIN 38404-8 (Z)	ISO 7888
Chloride	Cl	< 150 mg/l	DIN 38405-1	ISO 9297
Manganese	Mn	< 0.05 mg/l	DIN 38406-2	ISO 6333 / ISO 11885
Fluoride	F	< 0.05 mg/l	DIN 38405-4	ISO 10359-1
Sulfate	SO_4^{2-}	< 150 mg/l	DIN 38405-5	ISO 10304
Copper	Cu = total copper	< 0.1 mg/l	DIN 38406-7	ISO 8288 / ISO 11885
Silicic acid	SiO_2	< 25 mg/l	F1 (DIN 38407-1)	ISO 16264
Free carbon dioxide	CO_2	0 mg/l	G1 (DIN 38408-1)	–
Total salts		< 1000 mg/l	DIN 38409-1	–
Nitrate	NO_3^-	< 20 mg/l	DIN 38405-9	ISO 7890-1 (Z) / ISO 10304
Suspended matter		< 10 mg/l	DIN 38409-2	ISO 11923
Permanganate consumption	O	< 12 mg/l	H4 (DIN 38409-5)	ISO 8467
Total hardness	Mg + Ca	< 12 °DH	DIN 38409-6	ISO 6059
Carbonate hardness	HCO_3^-	< 12 °DH	DIN 38404-10	ISO 9963-1
Ammonium content	N ISO 11732 / NH_4^+ ISO 14911	< 10 mg/l	DIN 38406-5	ISO 11732 / ISO 14911
Iron content	Fe = total iron	< 0.2 mg/l	DIN 38406-1	ISO 6332 / ISO 11885

Note
If a fouling factor must be considered by the given cooling water specification, a mechanically cleanable water cooler might be mandatory. This might result in a mandatory change to IC81W design (modular motor). In this case please contact your Siemens sales partner.

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7.2 Rib-cooled motors

The rib-cooled motors have two cooling air flows, an external flow and an internal flow.

Most of the heat loss generated in the motor is dissipated via the stator core to the ribbed motor housing and then removed by the cooling air supplied by the external fan.

The external air is blown across the cooling ribs by the external fan. The housing is shaped in such a way that the cooling air flows between the ribs from the NDE to the DE.

The internal cooling circuit, driven by an internal fan at the NDE, works additionally to dissipate the heat from the rotor and stator winding overhangs to the stator housing.

The internal air is sucked in through ventilation holes in the rotor, circulated around the NDE enclosure space and intensively re-cooled on the internal ribs of the motor housing and end shield. The internal air then flows back to the DE through four air ducts in the stator housing.

Innovative SIMOTICS HV C cooling concept

For the cast iron housing configuration in shaft heights 400 to 560 mm, the bottom cooling air ducts are additionally cooled using cooling pipes (patent). Those pipes are cooled via the external fan using ambient air.

Pipe standard material is stainless steel for flameproof motors and aluminum for safe area and increased safety motors.

Figure 7-2 SIMOTICS HV C 1NB1, rib-cooled cast iron motor with cooling pipes for enhanced cooling of inner air circuit

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A Selection tables

Note
In the following you will find detailed selection tables with electrical and mechanical data. Please use the PDF bookmarks to navigate to the desired section.

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SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3000 rpm at 50 Hz																		
200	**1NA1 312-2AA60-0A.0**	2970	23	94.2	94.7	94.9	94.3	0.87	0.87	0.86	0.81	643	2.30	0.90	5.0	o.r.	28	o.r.
236	**1NA1 314-2AA60-0A.0**	2970	27	94.0	94.5	94.8	94.3	0.87	0.87	0.85	0.80	759	2.30	0.90	5.0	o.r.	26	o.r.
300	**1NA1 316-2AA60-0A.0**	2972	34	94.7	95.2	95.4	95.1	0.88	0.88	0.86	0.80	964	2.40	1.05	5.2	o.r.	30	o.r.
355	**1NA1 318-2AA60-0A.0**	2974	40	95.2	95.7	95.8	95.5	0.88	0.88	0.87	0.82	1140	2.50	1.10	5.3	o.r.	35	o.r.
400	**1NA1 354-2AA60-0A.0**	2978	45	95.1	95.6	95.8	95.4	0.88	0.88	0.86	0.81	1283	2.30	1.05	5.2	o.r.	38	o.r.
450	**1NA1 356-2AA60-0A.0**	2978	51	95.5	95.9	96.0	95.7	0.88	0.88	0.87	0.81	1443	2.50	1.20	5.5	o.r.	43	o.r.
500	**1NA1 358-2AA60-0A.0**	2980	57	95.7	96.1	96.3	96.0	0.88	0.88	0.87	0.82	1602	2.50	1.20	5.5	o.r.	46	o.r.
700	**1NA1 402-2AA60-0C.0**	2977	79	96.0	96.3	96.5	96.3	0.89	0.89	0.88	0.83	2245	2.65	0.95	5.8	12	105	1.00
670	**1NA1 402-2AA60-0A.0**	2978	78	95.9	96.3	96.5	96.2	0.85	0.86	0.86	0.82	2148	2.25	0.95	4.8	9	40	1.00
750	**1NA1 404-2AA60-0A.0**	2977	86	96.0	96.4	96.7	96.4	0.86	0.87	0.86	0.83	2406	2.25	0.95	4.8	10	35	1.00
760	**1NA1 404-2AA60-0C.0**	2978	86	96.0	96.4	96.7	96.4	0.88	0.88	0.87	0.83	2437	2.35	0.75	5.2	12	85	1.00
850	**1NA1 406-2AA60-0A.0**	2979	97	96.2	96.6	96.8	96.6	0.87	0.87	0.87	0.83	2725	2.45	1.05	5.2	11	35	1.00
860	**1NA1 406-2AA60-0C.0**	2979	96	96.3	96.6	96.8	96.6	0.89	0.89	0.88	0.83	2757	2.55	0.80	5.6	14	100	1.00
880	**1NA1 408-2AA60-0A.0**	2980	98	96.3	96.7	96.8	96.6	0.89	0.89	0.88	0.83	2820	2.65	1.10	5.6	12	40	1.00
880	**1NA1 408-2AA60-0C.0**	2981	98	96.4	96.7	96.8	96.5	0.89	0.89	0.88	0.83	2819	2.60	0.70	5.7	14	105	1.00
980	**1NA1 454-2AA60-0A.0**	2984	110	96.7	97.0	97.1	96.7	0.89	0.89	0.87	0.82	3136	2.60	1.35	6.1	15	25	1.00
960	**1NA1 454-2AA60-0C.0**	2983	106	96.6	96.9	97.0	96.6	0.90	0.90	0.88	0.83	3073	2.85	1.00	6.7	18	150	1.00
1100	**1NA1 456-2AA60-0A.0**	2982	122	96.6	97.0	97.2	97.0	0.89	0.90	0.89	0.86	3523	2.35	1.15	5.5	16	15	0.90
1100	**1NA1 456-2AA60-0C.0**	2981	120	96.6	96.9	97.1	96.9	0.90	0.91	0.90	0.86	3524	2.50	0.80	5.8	20	135	1.00
1220	**1NA1 458-2AA60-0A.0**	2984	134	96.9	97.2	97.3	97.1	0.90	0.90	0.89	0.85	3904	2.65	1.40	6.1	18	15	0.90
1220	**1NA1 458-2AA60-0C.0**	2983	132	96.8	97.1	97.2	97.0	0.91	0.91	0.90	0.86	3906	2.75	0.95	6.5	22	150	1.00
1360	**1NA1 504-2AA60-0AC0**	2985	154	96.8	97.0	97.1	96.7	0.87	0.88	0.88	0.84	4351	2.55	0.80	5.5	23	55	0.90
1400	**1NA1 504-2AA60-0C.0**	2985	154	96.8	97.0	97.0	96.6	0.89	0.90	0.89	0.85	4479	2.75	0.70	5.9	27	140	1.00
1500	**1NA1 506-2AA60-0AC0**	2985	166	96.9	97.2	97.3	96.9	0.88	0.89	0.89	0.85	4799	2.60	0.85	5.6	26	75	0.90
1520	**1NA1 506-2AA60-0C.0**	2986	168	96.9	97.1	97.2	96.8	0.90	0.90	0.90	0.86	4861	2.85	0.70	6.1	31	150	1.00
1710	**1NA1 508-2AA60-0AC0**	2988	190	97.2	97.3	97.3	96.9	0.89	0.89	0.87	0.81	5465	3.40	1.10	7.3	28	100	0.90
1740	**1NA1 508-2AA60-0C.0**	2989	192	97.2	97.3	97.2	96.7	0.91	0.90	0.88	0.82	5559	3.65	0.90	7.9	34	200	1.00
1910	**1NA1 566-2AA60-0C.0**	2988	210	97.2	97.3	97.3	96.9	0.90	0.91	0.91	0.89	6104	2.60	0.65	5.7	55	300	0.85
2150	**1NA1 568-2AA60-0C.0**	2989	230	97.4	97.5	97.5	97.1	0.91	0.92	0.91	0.88	6869	2.85	0.70	6.3	60	300	0.95
4-pole: n_{sync} = 1500 rpm at 50 Hz																		
200	**1NA1 312-4AA60-0A.0**	1480	25	93.5	93.8	94.0	93.1	0.83	0.81	0.77	0.69	1290	2.30	1.15	5.2	o.r.	159	o.r.
250	**1NA1 314-4AA60-0A.0**	1480	30	93.9	94.5	94.8	94.5	0.85	0.84	0.81	0.74	1613	2.30	1.15	5.3	o.r.	201	o.r.
300	**1NA1 316-4AA60-0A.0**	1480	36	94.1	94.7	95.0	94.8	0.85	0.85	0.82	0.74	1936	2.40	1.25	5.5	o.r.	222	o.r.
365	**1NA1 318-4AA60-0A.0**	1481	43	94.6	95.2	95.5	95.3	0.85	0.85	0.82	0.74	2353	2.40	1.25	5.5	o.r.	297	o.r.

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SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque		Locked rotor current		Inertia		
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R		I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]		[-]		kgm^2	kgm^2	[-]
400	**1NA1 354-4AA60-0A.0**	1485	48	94.9	95.2	95.4	95.0	0.85	0.84	0.81	0.72	2572	2.50	1.25		5.5		o.r.	224	o.r.
470	**1NA1 356-4AA60-0A.0**	1484	56	94.9	95.4	95.6	95.4	0.86	0.85	0.82	0.75	3024	2.35	1.20		5.3		o.r.	247	o.r.
560	**1NA1 358-4AA60-0A.0**	1485	65	95.3	95.7	95.9	95.8	0.86	0.86	0.84	0.77	3601	2.40	1.30		5.5		o.r.	296	o.r.
720	**1NA1 404-4AA60-0C.0**	1487	85	95.7	96.3	96.6	96.5	0.85	0.85	0.84	0.80	4624	2.35	0.70		4.9		15	350	1.00
710	**1NA1 404-4AA60-0A.0**	1486	85	95.6	96.2	96.5	96.4	0.84	0.84	0.84	0.79	4563	2.20	1.05		4.5		12	200	1.00
770	**1NA1 406-4AA60-0C.0**	1488	89	96.0	96.4	96.7	96.5	0.86	0.86	0.85	0.80	4942	2.50	0.70		5.1		17	450	1.00
760	**1NA1 406-4AA60-0A.0**	1487	89	95.8	96.3	96.6	96.5	0.84	0.85	0.84	0.79	4881	2.25	1.10		4.7		13	250	1.00
870	**1NA1 408-4AA60-0C.0**	1490	100	96.2	96.5	96.7	96.5	0.86	0.86	0.84	0.77	5576	2.85	0.80		5.8		19	600	1.00
850	**1NA1 408-4AA60-0A.0**	1489	100	96.0	96.4	96.6	96.4	0.85	0.85	0.83	0.76	5451	2.65	1.30		5.5		15	300	1.00
940	**1NA1 454-4AA60-0A.0**	1490	112	96.1	96.6	96.8	96.5	0.82	0.83	0.81	0.75	6024	2.25	1.05		5.1		22	350	1.00
960	**1NA1 454-4AA60-0C.0**	1490	114	96.2	96.6	96.8	96.5	0.84	0.84	0.82	0.76	6153	2.35	0.65		5.4		28	650	1.00
1040	**1NA1 456-4AA60-0A.0**	1490	124	96.4	96.8	97.0	96.6	0.83	0.83	0.81	0.75	6665	2.35	1.10		5.4		25	450	1.00
1070	**1NA1 456-4AA60-0C.0**	1491	126	96.5	96.8	97.0	96.6	0.85	0.85	0.83	0.76	6853	2.50	0.70		5.8		32	800	1.00
1200	**1NA1 458-4AA60-0A.0**	1491	144	96.6	97.0	97.1	96.7	0.84	0.83	0.80	0.72	7686	2.65	1.25		6.0		28	400	1.00
1240	**1NA1 458-4AA60-0C.0**	1492	144	96.7	97.0	97.1	96.7	0.86	0.85	0.82	0.74	7936	2.80	0.80		6.4		35	1000	1.00
1350	**1NA1 504-4AA60-0A.0**	1490	158	96.3	96.6	96.7	96.3	0.84	0.85	0.83	0.77	8652	2.25	0.95		5.1		33	350	0.95
1370	**1NA1 504-4AA60-0C.0**	1492	158	96.5	96.7	96.8	96.4	0.86	0.86	0.85	0.79	8768	2.35	0.70		5.7		42	750	1.00
1500	**1NA1 506-4AA60-0A.0**	1491	176	96.6	96.8	96.9	96.5	0.84	0.85	0.84	0.77	9607	2.35	0.95		5.3		38	400	1.00
1550	**1NA1 506-4AA60-0C.0**	1492	178	96.7	96.9	97.0	96.6	0.85	0.86	0.85	0.79	9921	2.40	0.70		5.8		48	900	1.00
1660	**1NA1 508-4AA60-0A.0**	1492	194	96.8	97.0	97.0	96.6	0.85	0.85	0.83	0.76	10625	2.55	1.00		5.9		43	500	1.00
1720	**1NA1 508-4AA60-0C.0**	1493	198	96.9	97.1	97.1	96.7	0.86	0.86	0.84	0.78	11001	2.65	0.75		6.4		55	1250	1.00
1870	**1NA1 562-4AA60-0A.0**	1492	220	96.8	97.0	97.0	96.4	0.83	0.85	0.83	0.77	11969	2.15	0.90		5.4		55	400	0.95
1900	**1NA1 562-4AA60-0C.0**	1492	220	96.8	97.1	97.1	96.6	0.84	0.86	0.85	0.80	12161	2.20	0.65		5.6		72	850	1.00
2100	**1NA1 564-4AA60-0A.0**	1493	245	97.0	97.2	97.1	96.6	0.84	0.85	0.83	0.77	13432	2.20	0.90		5.5		60	450	0.95
2150	**1NA1 564-4AA60-0C.0**	1492	245	97.0	97.3	97.3	96.8	0.85	0.86	0.85	0.80	13761	2.25	0.65		5.7		79	950	1.00
2260	**1NA1 566-4AA60-0A.0**	1493	260	97.1	97.3	97.2	96.8	0.85	0.86	0.84	0.78	14455	2.30	1.00		5.7		67	500	1.00
2310	**1NA1 566-4AA60-0C.0**	1493	260	97.2	97.4	97.4	96.9	0.86	0.87	0.86	0.80	14775	2.35	0.70		6.0		88	1200	1.00
2510	**1NA1 568-4AA60-0A.0**	1494	290	97.3	97.4	97.3	96.8	0.85	0.86	0.83	0.76	16043	2.55	1.05		6.2		74	550	1.00
2570	**1NA1 568-4AA60-0C.0**	1494	290	97.4	97.5	97.5	97.0	0.87	0.87	0.85	0.79	16427	2.60	0.75		6.6		97	1500	1.00
6-pole: n_{sync} = 1000 rpm at 50 Hz																				
236	**1NA1 316-6AA60-0AA0**	986	29	93.3	94.1	94.5	94.3	0.83	0.82	0.78	0.70	2286	2.50	1.25		5.3		o.r.	375	o.r.
270	**1NA1 318-6AA60-0AA0**	985	33	93.7	94.3	94.8	94.7	0.83	0.82	0.80	0.72	2617	2.40	1.25		5.5		o.r.	431	o.r.
315	**1NA1 354-6AA60-0AA0**	989	39	94.3	94.8	95.1	94.7	0.83	0.82	0.79	0.71	3041	2.30	1.10		5.3		o.r.	541	o.r.
365	**1NA1 356-6AA60-0AA0**	989	44	94.6	95.1	95.4	95.0	0.84	0.83	0.80	0.72	3524	2.20	1.10		5.3		o.r.	667	o.r.
425	**1NA1 358-6AA60-0AA0**	990	52	94.8	95.3	95.5	95.2	0.83	0.82	0.79	0.70	4099	2.40	1.25		5.5		o.r.	841	o.r.
630	**1NA1 404-6AA60-0CA0**	993	77	95.6	96.1	96.4	96.0	0.82	0.82	0.79	0.70	6058	2.45	0.85		5.1		27	650	1.00
630	**1NA1 404-6AA60-0AA0**	992	78	95.4	96.0	96.4	96.2	0.80	0.81	0.78	0.70	6065	2.45	1.20		5.3		22	800	1.00

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SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
660	**1NA1 406-6AA60-0CA0**	994	81	95.8	96.2	96.4	96.0	0.83	0.82	0.79	0.70	6341	2.60	0.90	5.5	31	750	1.00
650	**1NA1 406-6AA60-0AA0**	993	80	95.7	96.1	96.4	96.1	0.81	0.81	0.78	0.69	6251	2.65	1.30	5.7	25	900	1.00
710	**1NA1 408-6AA60-0CA0**	995	89	96.0	96.2	96.2	95.6	0.82	0.80	0.74	0.62	6814	3.20	1.15	6.4	34	750	1.00
710	**1NA1 408-6AA60-0AA0**	994	90	95.9	96.2	96.3	95.8	0.81	0.79	0.73	0.62	6821	3.25	1.65	6.6	27	900	1.00
740	**1NA1 454-6AA60-0A.0**	992	92	95.8	96.3	96.5	96.3	0.79	0.80	0.79	0.73	7123	2.15	1.00	5.2	32	1850	1.00
760	**1NA1 454-6AA60-0C.0**	992	91	95.9	96.4	96.6	96.4	0.83	0.83	0.81	0.75	7316	2.25	0.70	4.8	41	1400	1.00
800	**1NA1 456-6AA60-0A.0**	994	98	96.1	96.5	96.6	96.2	0.81	0.81	0.79	0.71	7686	2.45	1.20	5.8	37	2050	1.00
820	**1NA1 456-6AA60-0C.0**	994	97	96.2	96.5	96.6	96.3	0.84	0.84	0.81	0.73	7878	2.55	0.80	5.5	47	1500	1.00
900	**1NA1 458-6AA60-0A.0**	994	110	96.2	96.6	96.6	96.3	0.82	0.82	0.79	0.71	8646	2.50	1.20	6.1	44	2400	1.00
900	**1NA1 458-6AA60-0C.0**	994	106	96.3	96.6	96.6	96.3	0.85	0.84	0.80	0.72	8646	2.75	0.85	5.9	56	1850	1.00
1050	**1NA1 502-6AA60-0A.0**	993	128	95.9	96.5	96.8	96.7	0.81	0.82	0.81	0.75	10097	2.05	1.15	5.3	53	650	1.00
1100	**1NA1 502-6AA60-0C.0**	994	128	96.2	96.6	96.9	96.7	0.86	0.86	0.84	0.78	10568	2.30	0.65	5.7	68	1200	1.00
1120	**1NA1 504-6AA60-0A.0**	994	134	96.1	96.6	96.9	96.7	0.82	0.83	0.81	0.75	10760	2.20	1.30	5.7	60	1000	1.00
1200	**1NA1 504-6AA60-0C.0**	995	138	96.4	96.8	97.0	96.8	0.87	0.86	0.84	0.78	11517	2.45	0.75	6.0	76	1300	1.00
1300	**1NA1 506-6AA60-0A.0**	993	156	96.4	96.8	97.1	96.9	0.83	0.83	0.81	0.75	12502	2.20	1.25	5.8	68	900	1.00
1370	**1NA1 506-6AA60-0C.0**	995	158	96.6	97.0	97.2	97.0	0.87	0.86	0.84	0.78	13148	2.50	0.70	6.1	86	1850	1.00
1410	**1NA1 508-6AA60-0A.0**	994	168	96.5	96.9	97.1	97.0	0.83	0.83	0.82	0.75	13546	2.30	1.30	6.0	77	1100	1.00
1500	**1NA1 508-6AA60-0C.0**	995	170	96.7	97.1	97.3	97.0	0.87	0.87	0.84	0.78	14396	2.60	0.70	6.3	97	2150	1.00
1870	**1NA1 564-6AA60-0C.0**	994	215	96.9	97.2	97.4	97.2	0.87	0.87	0.87	0.82	17965	2.45	0.55	5.1	137	2100	0.95
2000	**1NA1 566-6AA60-0C.0**	995	225	97.1	97.4	97.5	97.2	0.87	0.87	0.86	0.80	19195	2.75	0.60	5.6	152	2950	1.00
2200	**1NA1 568-6AA60-0C.0**	995	250	97.2	97.4	97.5	97.2	0.87	0.87	0.85	0.79	21114	2.95	0.65	6.1	167	3600	1.00
8-pole: n_{sync} = 750 rpm at 50 Hz																		
215	**1NA1 354-8AA60-0AA0**	738	27	92.9	93.8	94.2	94.1	0.82	0.81	0.78	0.69	2782	2.30	1.00	5.1	o.r.	826	o.r.
250	**1NA1 356-8AA60-0AA0**	739	31	93.1	94.0	94.4	94.3	0.82	0.81	0.78	0.68	3230	2.40	1.00	5.3	o.r.	986	o.r.
300	**1NA1 358-8AA60-0AA0**	739	38	93.4	94.2	94.7	94.6	0.82	0.81	0.78	0.70	3876	2.40	1.10	5.3	o.r.	1107	o.r.
440	**1NA1 404-8AA60-0AA0**	742	56	95.0	95.6	95.9	95.6	0.80	0.79	0.75	0.65	5663	2.40	1.05	4.9	22	1450	1.00
450	**1NA1 404-8AA60-0CA0**	743	57	95.1	95.6	95.8	95.4	0.81	0.79	0.75	0.64	5784	2.15	0.80	4.2	27	1200	1.00
480	**1NA1 406-8AA60-0AA0**	742	60	95.0	95.7	96.0	95.7	0.81	0.80	0.77	0.67	6177	2.40	1.05	4.9	25	1700	1.00
480	**1NA1 406-8AA60-0CA0**	743	60	95.2	95.8	95.9	95.5	0.81	0.80	0.76	0.65	6169	2.20	0.85	4.3	31	1300	1.00
530	**1NA1 408-8AA60-0AA0**	742	66	95.3	95.9	96.1	95.8	0.81	0.80	0.76	0.66	6821	2.50	1.10	5.1	27	2050	1.00
550	**1NA1 408-8AA60-0CA0**	744	69	95.4	95.9	96.1	95.7	0.81	0.80	0.75	0.65	7059	2.20	0.85	4.3	34	1550	1.00
630	**1NA1 454-8AA60-0A.0**	742	81	95.0	95.7	96.1	96.0	0.78	0.78	0.77	0.71	8108	1.95	0.90	4.2	32	2150	1.00
600	**1NA1 454-8AA60-0C.0**	743	75	95.3	95.9	96.1	95.8	0.81	0.80	0.78	0.70	7711	2.10	0.75	4.0	41	1900	1.00
660	**1NA1 456-8AA60-0A.0**	743	84	95.2	95.9	96.2	96.0	0.79	0.79	0.77	0.71	8483	2.05	0.95	4.4	37	2650	1.00
650	**1NA1 456-8AA60-0C.0**	743	80	95.4	96.0	96.2	95.9	0.81	0.81	0.78	0.71	8354	2.10	0.75	4.1	47	2100	1.00
730	**1NA1 458-8AA60-0A.0**	744	93	95.6	96.1	96.2	95.8	0.80	0.79	0.76	0.67	9370	2.40	1.15	5.1	44	2600	1.00
710	**1NA1 458-8AA60-0C.0**	745	89	95.7	96.1	96.1	95.6	0.82	0.80	0.76	0.67	9101	2.50	0.90	4.8	56	2200	1.00

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SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001)

Rated Power **IEC**	**High Voltage motor HV C Article No.**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia		
			I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B / T_R	T_{LR} / T_R	I_{LR} / I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]		kgm^2	kgm^2	[-]
800	**1NA1 504-8AA60-0A.0**	744	100	95.5	96.0	96.1	95.8	0.81	0.80	0.77	0.69	10268	2.25	0.80	5.4		59	2700	1.00
810	**1NA1 504-8AA60-0C.0**	745	97	95.5	95.9	95.9	95.5	0.85	0.84	0.80	0.72	10382	2.55	0.75	5.6		76	2550	1.00
870	**1NA1 506-8AA60-0A.0**	745	108	95.7	96.1	96.1	95.7	0.81	0.80	0.76	0.67	11152	2.55	0.90	6.1		66	3550	1.00
880	**1NA1 506-8AA60-0C.0**	746	106	95.8	96.0	95.9	95.3	0.85	0.83	0.78	0.69	11265	2.85	0.85	6.2		85	3250	1.00
920	**1NA1 508-8AA60-0A.0**	746	116	95.8	96.1	96.0	95.6	0.82	0.80	0.75	0.65	11777	2.80	1.05	6.6		75	3600	1.00
920	**1NA1 508-8AA60-0C.0**	746	112	95.8	96.0	95.8	95.2	0.85	0.82	0.77	0.66	11777	3.15	1.05	6.8		96	3200	1.00
1220	**1NA1 564-8AA60-0C.0**	745	142	96.4	96.8	97.0	96.8	0.85	0.85	0.83	0.76	15638	2.30	0.60	4.6		136	5000	0.95
1350	**1NA1 566-8AA60-0C.0**	745	160	96.6	96.9	97.1	96.8	0.85	0.84	0.82	0.75	17304	2.50	0.60	5.0		152	6100	1.00
1430	**1NA1 568-8AA60-0C.0**	746	168	96.7	97.0	97.1	96.8	0.85	0.84	0.82	0.74	18305	2.65	0.65	5.3		167	5350	1.00

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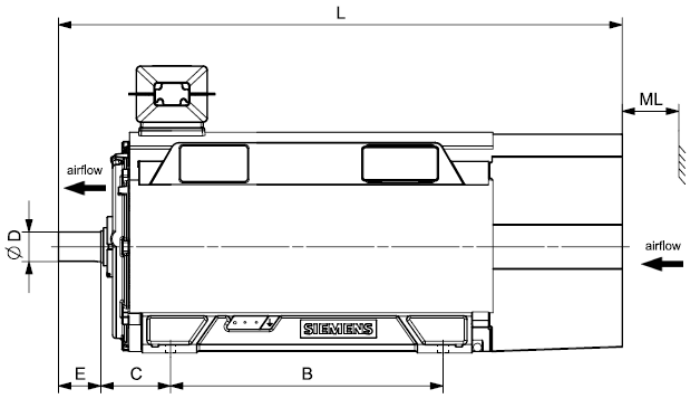

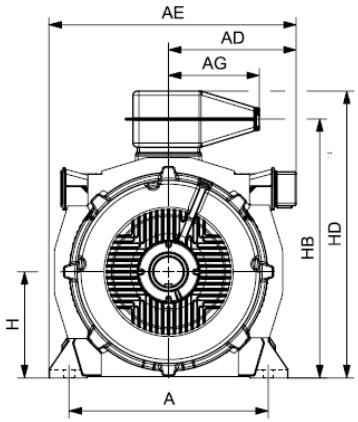

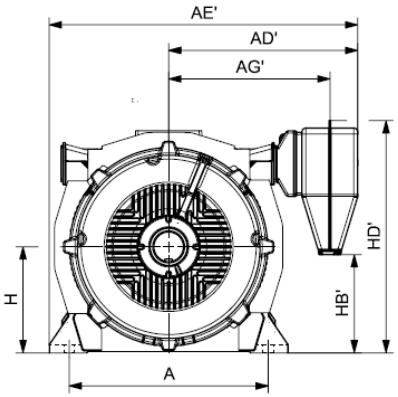

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 312-2AA60-0A.0	1550	610	710	o.r.	1075	o.r.	645	o.r.	710	200	70	105	315	o.r.	195	o.r.	860	1590	130
1NA1 314-2AA60-0A.0	1550	610	710	o.r.	1075	o.r.	645	o.r.	710	200	70	105	315	o.r.	195	o.r.	860	1590	130
1NA1 316-2AA60-0A.0	1850	610	710	o.r.	1075	o.r.	645	o.r.	900	200	70	105	315	o.r.	195	o.r.	860	1790	130
1NA1 318-2AA60-0A.0	2000	610	710	o.r.	1075	o.r.	645	o.r.	900	200	70	105	315	o.r.	195	o.r.	860	1790	130
1NA1 354-2AA60-0A.0	2300	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	75	105	355	o.r.	265	o.r.	930	1930	140
1NA1 356-2AA60-0A.0	2400	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	75	105	355	o.r.	265	o.r.	930	1930	140
1NA1 358-2AA60-0A.0	2550	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	75	105	355	o.r.	265	o.r.	930	1930	140
1NA1 402-2AA60-0C.0	3400	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 402-2AA60-0A.0	3400	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 404-2AA60-0A.0	3500	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 404-2AA60-0C.0	3600	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 406-2AA60-0A.0	3700	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 406-2AA60-0C.0	3800	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 408-2AA60-0A.0	3800	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 408-2AA60-0C.0	3900	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 454-2AA60-0A.0	4600	850	564	848	1079	1363	489	717	1250	254	95	130	450	o.r.	1115	o.r.	1246	2286	180
1NA1 454-2AA60-0C.0	4800	850	564	848	1079	1363	489	717	1250	254	95	130	450	o.r.	1115	o.r.	1246	2286	180
1NA1 456-2AA60-0A.0	4800	850	564	848	1079	1363	489	717	1250	254	95	130	450	o.r.	1115	o.r.	1246	2286	180
1NA1 456-2AA60-0C.0	5000	850	564	848	1079	1363	489	717	1250	254	95	130	450	o.r.	1115	o.r.	1246	2286	180
1NA1 458-2AA60-0A.0	5100	850	564	848	1079	1363	489	717	1250	254	95	130	450	o.r.	1115	o.r.	1246	2286	180
1NA1 458-2AA60-0C.0	5200	850	564	848	1079	1363	489	717	1250	254	95	130	450	o.r.	1115	o.r.	1246	2286	180
1NA1 504-2AA60-0AC0	6100	950	610	894	1175	1459	489	763	1320	475	110	165	500	o.r.	1221	o.r.	1352	2662	200

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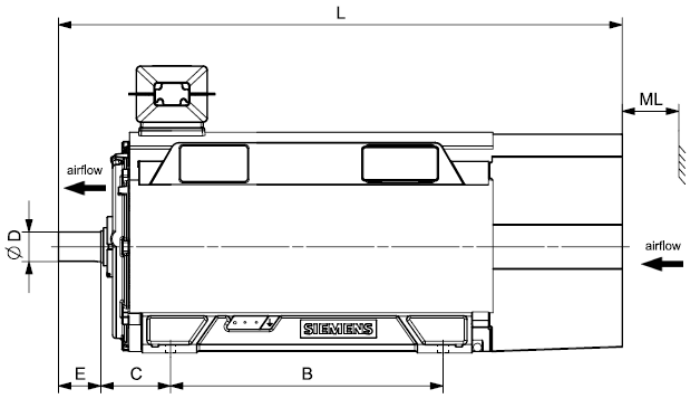

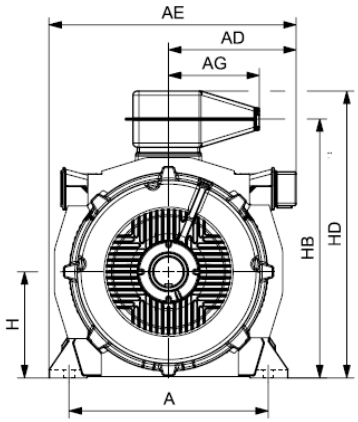

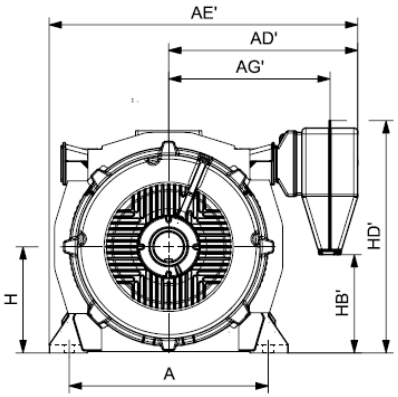

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 504-2AA60-0C.0	6300	950	610	894	1175	1459	489	763	1320	280	110	165	500	o.r.	1221	o.r.	1352	2472	200
1NA1 506-2AA60-0AC0	6500	950	610	894	1175	1459	489	763	1320	475	110	165	500	o.r.	1221	o.r.	1352	2662	200
1NA1 506-2AA60-0C.0	6700	950	610	894	1175	1459	489	763	1320	280	110	165	500	o.r.	1221	o.r.	1352	2472	200
1NA1 508-2AA60-0AC0	6800	950	610	894	1175	1459	489	763	1320	475	110	165	500	o.r.	1221	o.r.	1352	2662	200
1NA1 508-2AA60-0C.0	7000	950	610	894	1175	1459	489	763	1320	280	110	165	500	o.r.	1221	o.r.	1352	2472	200
1NA1 566-2AA60-0C.0	9000	1060	670	954	1305	1589	489	823	1400	290	120	165	560	o.r.	1348	o.r.	1479	2642	225
1NA1 568-2AA60-0C.0	9400	1060	670	954	1305	1589	489	823	1400	290	120	165	560	o.r.	1348	o.r.	1479	2642	225
4-pole																			
1NA1 312-4AA60-0A.0	1500	610	710	o.r.	1075	o.r.	645	o.r.	710	200	90	130	315	o.r.	195	o.r.	860	1610	130
1NA1 314-4AA60-0A.0	1650	610	710	o.r.	1075	o.r.	645	o.r.	710	200	90	130	315	o.r.	195	o.r.	860	1610	130
1NA1 316-4AA60-0A.0	1900	610	710	o.r.	1075	o.r.	645	o.r.	900	200	90	130	315	o.r.	195	o.r.	860	1810	130
1NA1 318-4AA60-0A.0	2050	610	710	o.r.	1075	o.r.	645	o.r.	900	200	90	130	315	o.r.	195	o.r.	860	1810	130
1NA1 354-4AA60-0A.0	2350	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	100	165	355	o.r.	265	o.r.	930	1985	140
1NA1 356-4AA60-0A.0	2550	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	100	165	355	o.r.	265	o.r.	930	1985	140
1NA1 358-4AA60-0A.0	2750	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	100	165	355	o.r.	265	o.r.	930	1985	140
1NA1 404-4AA60-0C.0	3700	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 404-4AA60-0A.0	3600	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-4AA60-0C.0	3900	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-4AA60-0A.0	3800	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-4AA60-0C.0	4100	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-4AA60-0A.0	4000	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 454-4AA60-0A.0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 454-4AA60-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180

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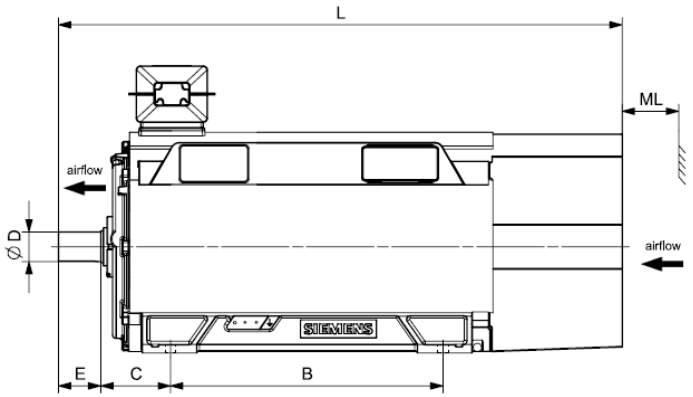

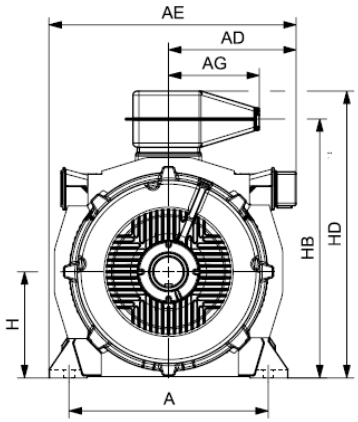

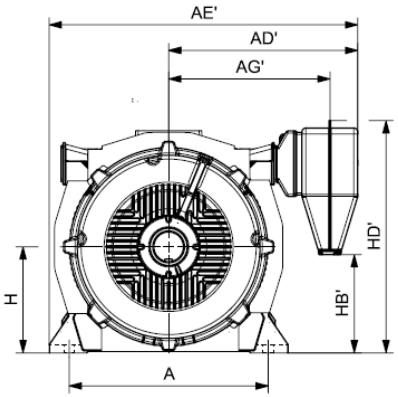

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 456-4AA60-0A.0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-4AA60-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-4AA60-0A.0	5400	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-4AA60-0C.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 504-4AA60-0A.0	6200	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 504-4AA60-0C.0	6400	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-4AA60-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-4AA60-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-4AA60-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-4AA60-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 562-4AA60-0A.0	7900	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 562-4AA60-0C.0	8200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 564-4AA60-0A.0	8400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 564-4AA60-0C.0	8700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 566-4AA60-0A.0	8800	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 566-4AA60-0C.0	9200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 568-4AA60-0A.0	9300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 568-4AA60-0C.0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
6-pole																			
1NA1 316-6AA60-0AA0	1950	610	710	o.r.	1075	o.r.	645	o.r.	900	200	90	130	315	o.r.	195	o.r.	860	1810	130
1NA1 318-6AA60-0AA0	2150	610	710	o.r.	1075	o.r.	645	o.r.	900	200	90	130	315	o.r.	195	o.r.	860	1810	130
1NA1 354-6AA60-0AA0	2400	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	100	165	355	o.r.	265	o.r.	930	1985	140
1NA1 356-6AA60-0AA0	2600	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	100	165	355	o.r.	265	o.r.	930	1985	140

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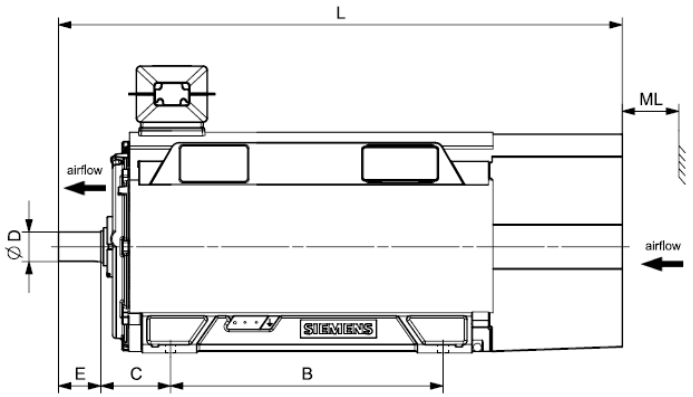

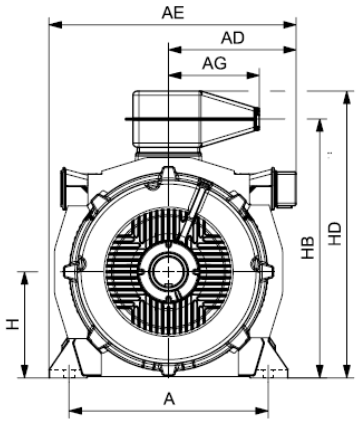

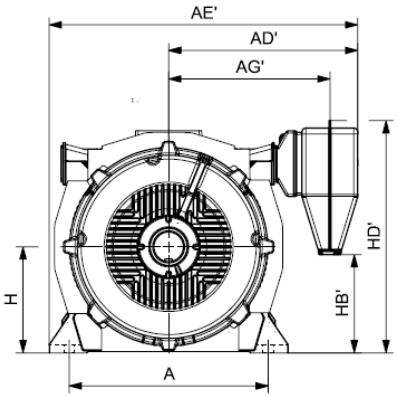

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 358-6AA60-0AA0	2850	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	100	165	355	o.r.	265	o.r.	930	1985	140
1NA1 404-6AA60-0CA0	3800	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 404-6AA60-0AA0	3700	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-6AA60-0CA0	4100	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-6AA60-0AA0	3900	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-6AA60-0CA0	4300	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-6AA60-0AA0	4100	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 454-6AA60-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 454-6AA60-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-6AA60-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-6AA60-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-6AA60-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-6AA60-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 502-6AA60-0A.0	5900	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 502-6AA60-0C.0	6200	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 504-6AA60-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 504-6AA60-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-6AA60-0A.0	6800	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-6AA60-0C.0	7000	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-6AA60-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-6AA60-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 564-6AA60-0C.0	9100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 566-6AA60-0C.0	9600	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225

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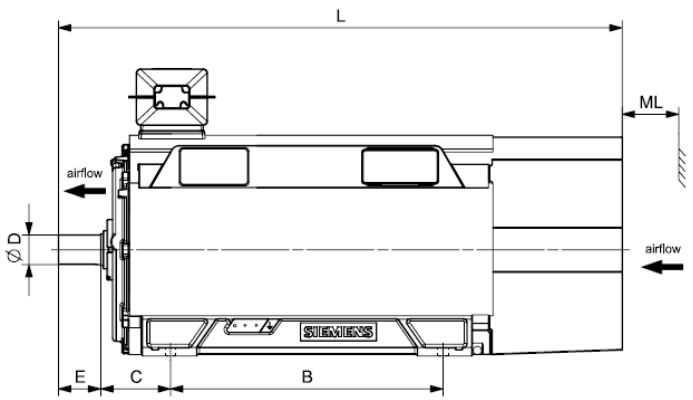

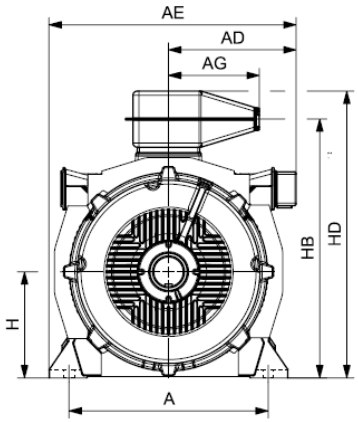

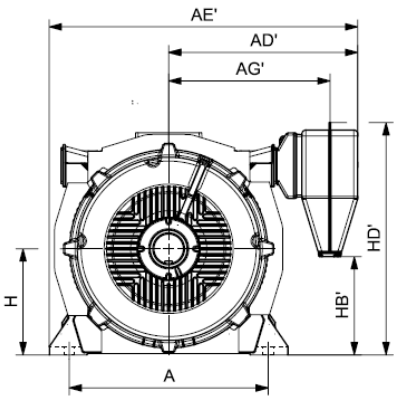

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 568-6AA60-0C.0	10200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
8-pole																			
1NA1 354-8AA60-0AA0	2400	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	100	165	355	o.r.	265	o.r.	930	1985	140
1NA1 356-8AA60-0AA0	2600	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	100	165	355	o.r.	265	o.r.	930	1985	140
1NA1 358-8AA60-0AA0	2800	686	740	o.r.	1155	o.r.	675	o.r.	1000	224	100	165	355	o.r.	265	o.r.	930	1985	140
1NA1 404-8AA60-0AA0	3600	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 404-8AA60-0CA0	3800	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-8AA60-0AA0	3900	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-8AA60-0CA0	4000	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-8AA60-0AA0	4100	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-8AA60-0CA0	4300	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 454-8AA60-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 454-8AA60-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-8AA60-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-8AA60-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-8AA60-0A.0	5400	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-8AA60-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 504-8AA60-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 504-8AA60-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-8AA60-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-8AA60-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-8AA60-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-8AA60-0C.0	7400	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200

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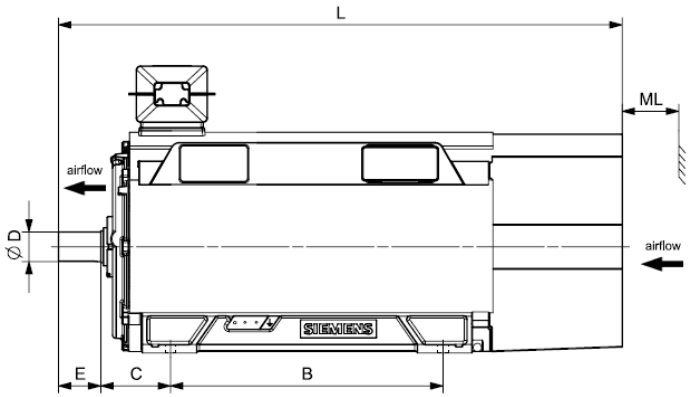

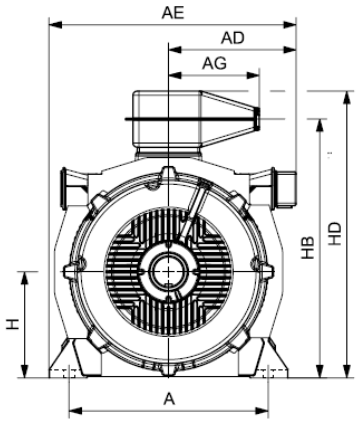

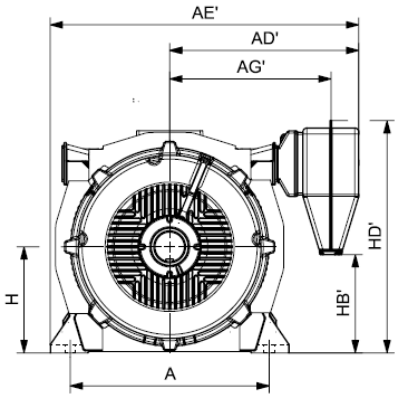

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 564-8AA60-0C.0	9000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 566-8AA60-0C.0	9600	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 568-8AA60-0C.0	10100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225

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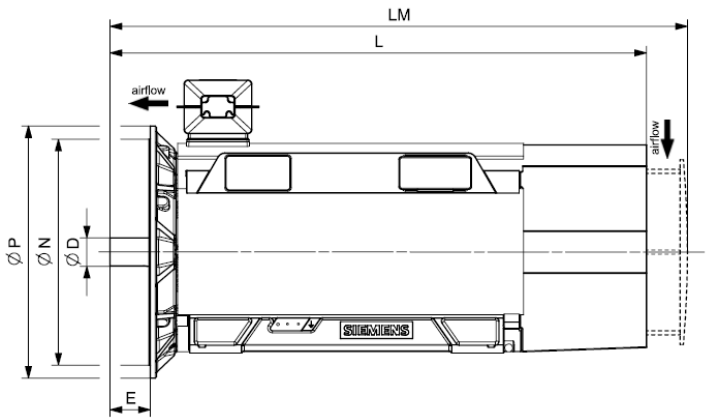

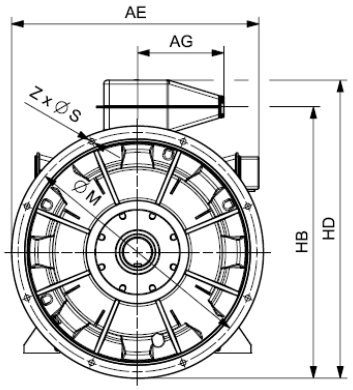

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NA1 312-4AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 314-4AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 316-4AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 318-4AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 354-4AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 356-4AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 358-4AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 404-4AA64-0CA0	3800	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 404-4AA64-0AA0	3700	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-4AA64-0CA0	4000	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-4AA64-0AA0	3900	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-4AA64-0CA0	4200	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-4AA64-0AA0	4100	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 454-4AA64-0AA0	4900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-4AA64-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AA64-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AA64-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AA64-0AA0	5500	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AA64-0CA0	5700	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 504-4AA64-0AA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-4AA64-0CA0	6600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AA64-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16

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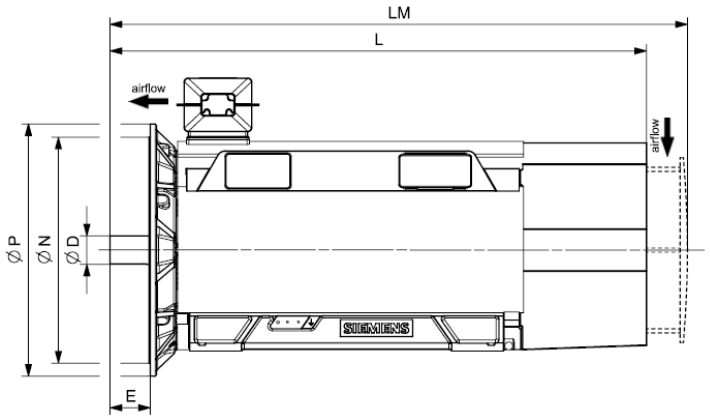

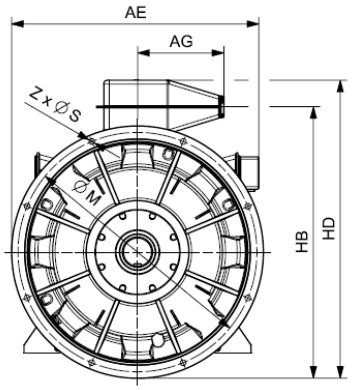

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 506-4AA64-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AA64-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AA64-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 562-4AA64-0AA0	8200	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 562-4AA64-0CA0	8500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AA64-0AA0	8700	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AA64-0CA0	9000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AA64-0AA0	9100	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AA64-0CA0	9500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AA64-0AA0	9600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AA64-0CA0	10000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 316-6AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 318-6AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 354-6AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 356-6AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 358-6AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 404-6AA64-0CA0	3900	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 404-6AA64-0AA0	3800	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-6AA64-0CA0	4200	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-6AA64-0AA0	4000	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-6AA64-0CA0	4400	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-6AA64-0AA0	4200	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8

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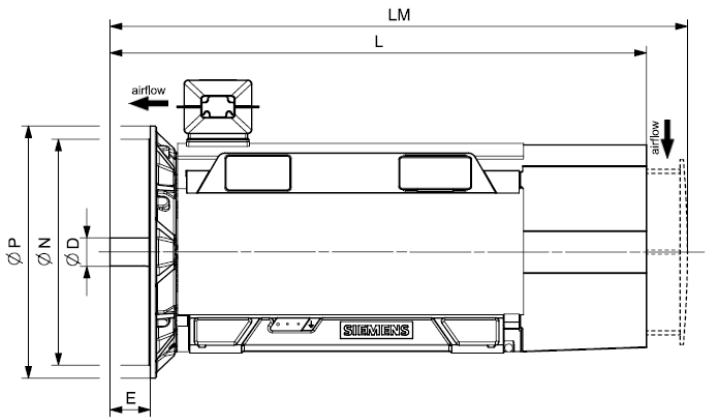

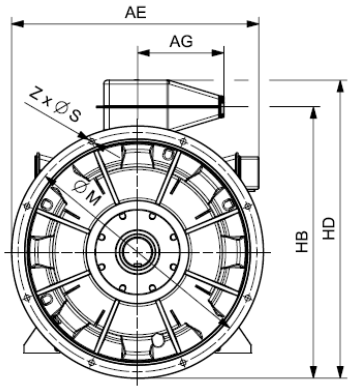

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NA1 454-6AA64-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-6AA64-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AA64-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AA64-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AA64-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AA64-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 502-6AA64-0AA0	6100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 502-6AA64-0CA0	6300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AA64-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AA64-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AA64-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AA64-0CA0	7200	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AA64-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AA64-0CA0	7700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-6AA64-0CA0	9400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-6AA64-0CA0	9900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-6AA64-0CA0	10500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
8-pole														
1NA1 354-8AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 356-8AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 358-8AA64-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 404-8AA64-0AA0	3700	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 404-8AA64-0CA0	3900	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8

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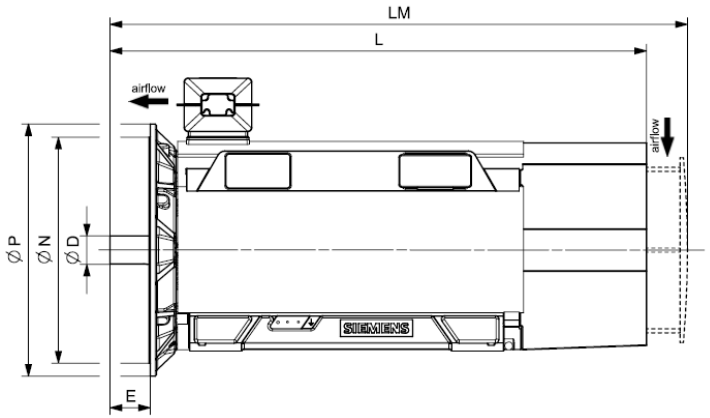

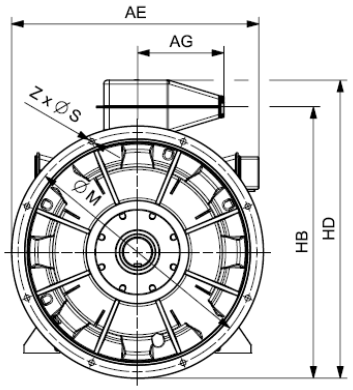

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 406-8AA64-0AA0	4000	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-8AA64-0CA0	4100	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-8AA64-0AA0	4200	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-8AA64-0CA0	4400	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 454-8AA64-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-8AA64-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AA64-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AA64-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AA64-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AA64-0CA0	5800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 504-8AA64-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-8AA64-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AA64-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AA64-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AA64-0AA0	7300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AA64-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-8AA64-0CA0	9300	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-8AA64-0CA0	9900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-8AA64-0CA0	10400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]		kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3600 rpm at 60 Hz																		
820	**1NA1 402-2AA10-0C.0**	3575	86	95.9	96.2	96.3	95.8	0.87	0.87	0.86	0.82	2190	2.30	0.65	5.1		11	40	0.95
820	**1NA1 402-2AA10-0A.0**	3577	87	95.9	96.2	96.3	95.8	0.85	0.86	0.85	0.82	2189	2.15	0.95	4.7		9	15	0.70
860	**1NA1 404-2AA10-0C.0**	3576	88	96.0	96.3	96.4	95.9	0.88	0.89	0.88	0.84	2297	2.40	0.60	5.3		12	50	1.00
860	**1NA1 404-2AA10-0A.0**	3578	89	96.0	96.3	96.4	95.9	0.87	0.88	0.87	0.83	2295	2.30	0.95	5.0		10	15	0.80
960	**1NA1 406-2AA10-0A.0**	3578	99	96.2	96.5	96.6	96.1	0.87	0.88	0.88	0.84	2562	2.30	1.05	5.1		11	10	0.90
960	**1NA1 406-2AA10-0C.0**	3576	98	96.2	96.5	96.6	96.2	0.88	0.89	0.88	0.85	2564	2.40	0.65	5.3		14	55	1.00
1060	**1NA1 408-2AA10-0A.0**	3580	108	96.4	96.7	96.7	96.2	0.88	0.88	0.87	0.83	2827	2.55	1.20	5.6		12	10	0.90
1050	**1NA1 408-2AA10-0C.0**	3579	106	96.4	96.6	96.7	96.2	0.89	0.89	0.88	0.83	2802	2.65	0.75	6.0		14	70	1.00
1120	**1NA1 454-2AA10-0C.0**	3579	112	96.4	96.7	96.8	96.3	0.89	0.90	0.89	0.86	2988	2.25	0.75	5.3		19	70	0.95
1250	**1NA1 456-2AA10-0C.0**	3580	126	96.6	96.9	96.9	96.5	0.90	0.90	0.90	0.86	3334	2.40	0.80	5.7		21	75	1.00
1440	**1NA1 458-2AA10-0C.0**	3582	142	96.9	97.1	97.1	96.6	0.91	0.91	0.90	0.86	3839	2.65	0.90	6.3		22	90	1.00
1570	**1NA1 504-2AA10-0CC0**	3585	158	96.7	96.8	96.7	96.0	0.89	0.90	0.90	0.86	4182	2.65	0.65	5.7		29	105	0.85
1750	**1NA1 506-2AA10-0CC0**	3586	174	96.9	97.0	96.9	96.2	0.90	0.91	0.90	0.86	4660	2.85	0.65	6.2		33	105	0.95
1920	**1NA1 508-2AA10-0CC0**	3588	190	97.1	97.1	97.0	96.3	0.91	0.91	0.90	0.85	5110	3.30	0.80	7.2		36	140	1.00
2150	**1NA1 566-2AA10-0CC0**	3588	215	97.0	97.1	96.9	96.3	0.90	0.91	0.91	0.89	5722	2.45	0.55	5.5		55	250	0.70
2400	**1NA1 568-2AA10-0CC0**	3589	235	97.2	97.3	97.1	96.5	0.91	0.92	0.91	0.89	6386	2.75	0.60	6.1		59	200	0.80
4-pole: n_{sync} = 1800 rpm at 60 Hz																		
850	**1NA1 404-4AA10-0A.0**	1786	92	95.8	96.3	96.5	96.2	0.83	0.84	0.83	0.79	4545	2.10	0.95	4.5		12	90	1.00
860	**1NA1 404-4AA10-0C.0**	1787	92	95.9	96.4	96.6	96.3	0.84	0.85	0.84	0.80	4596	2.25	0.60	4.8		15	200	1.00
910	**1NA1 406-4AA10-0A.0**	1787	97	96.0	96.4	96.6	96.2	0.84	0.85	0.84	0.78	4863	2.25	1.05	4.9		13	125	1.00
930	**1NA1 406-4AA10-0C.0**	1788	98	96.1	96.5	96.7	96.4	0.85	0.86	0.84	0.79	4967	2.45	0.65	5.1		17	250	1.00
1000	**1NA1 408-4AA10-0A.0**	1788	106	96.2	96.5	96.6	96.3	0.85	0.85	0.84	0.78	5341	2.40	1.15	5.2		15	145	1.00
1020	**1NA1 408-4AA10-0C.0**	1789	108	96.3	96.6	96.7	96.4	0.86	0.86	0.85	0.79	5445	2.60	0.70	5.5		19	350	1.00
1120	**1NA1 454-4AA10-0A.0**	1790	122	96.4	96.7	96.7	96.2	0.83	0.83	0.81	0.74	5975	2.35	1.15	5.4		22	150	1.00
1120	**1NA1 454-4AA10-0C.0**	1791	120	96.4	96.7	96.7	96.1	0.84	0.85	0.82	0.75	5972	2.50	0.70	5.9		28	450	1.00
1180	**1NA1 456-4AA10-0A.0**	1791	126	96.5	96.8	96.8	96.3	0.84	0.84	0.82	0.75	6292	2.45	1.25	5.7		25	250	1.00
1210	**1NA1 456-4AA10-0C.0**	1792	128	96.5	96.8	96.8	96.2	0.86	0.86	0.83	0.76	6448	2.60	0.75	6.1		32	500	1.00
1380	**1NA1 458-4AA10-0A.0**	1791	148	96.7	97.0	97.0	96.5	0.84	0.84	0.82	0.75	7358	2.45	1.25	5.7		28	200	1.00
1400	**1NA1 458-4AA10-0C.0**	1792	146	96.7	97.0	97.0	96.4	0.86	0.86	0.83	0.76	7460	2.65	0.75	6.2		35	650	1.00
1600	**1NA1 504-4AA10-0C.0**	1793	170	96.6	96.7	96.5	95.8	0.85	0.85	0.83	0.76	8521	2.60	0.70	6.4		42	550	1.00
1560	**1NA1 504-4AA10-0A.0**	1792	168	96.5	96.5	96.4	95.6	0.84	0.84	0.81	0.74	8313	2.50	1.05	5.9		33	145	1.00
1750	**1NA1 506-4AA10-0A.0**	1791	186	96.5	96.7	96.6	96.0	0.85	0.85	0.84	0.78	9331	2.25	0.90	5.2		38	150	0.85
1810	**1NA1 506-4AA10-0C.0**	1792	190	96.7	96.8	96.8	96.2	0.86	0.86	0.85	0.80	9645	2.30	0.60	5.7		48	550	0.95
1900	**1NA1 508-4AA10-0A.0**	1792	200	96.8	96.8	96.7	96.0	0.85	0.85	0.83	0.76	10125	2.60	1.05	6.0		43	200	1.00
1950	**1NA1 508-4AA10-0C.0**	1793	205	96.9	97.0	96.8	96.2	0.86	0.86	0.84	0.77	10385	2.65	0.70	6.6		55	800	1.00
2200	**1NA1 562-4AA10-0C.0**	1792	230	96.8	96.9	96.7	95.9	0.84	0.86	0.85	0.80	11723	2.15	0.60	5.5		72	500	0.95

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SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
2170	**1NA1 562-4AA10-0A.0**	1792	230	96.6	96.7	96.5	95.6	0.83	0.85	0.83	0.78	11564	2.10	0.90	5.3	55	200	0.85
2400	**1NA1 564-4AA10-0C.0**	1793	250	97.0	97.0	96.9	96.1	0.85	0.86	0.85	0.79	12782	2.30	0.65	6.1	79	650	1.00
2350	**1NA1 564-4AA10-0A.0**	1793	250	96.8	96.9	96.6	95.7	0.84	0.85	0.83	0.77	12516	2.30	0.95	5.8	60	200	1.00
2600	**1NA1 566-4AA10-0A.0**	1793	275	96.9	97.0	96.8	96.0	0.84	0.86	0.84	0.79	13847	2.20	0.90	5.6	67	250	0.90
2670	**1NA1 566-4AA10-0C.0**	1793	275	97.1	97.2	97.0	96.4	0.85	0.87	0.86	0.81	14220	2.25	0.60	5.8	88	700	1.00
2800	**1NA1 568-4AA10-0A.0**	1794	295	97.1	97.1	96.9	96.1	0.86	0.86	0.84	0.77	14904	2.55	1.15	6.3	74	250	1.00
2870	**1NA1 568-4AA10-0C.0**	1794	295	97.3	97.3	97.1	96.4	0.87	0.88	0.86	0.79	15277	2.60	0.75	6.7	97	950	1.00
6-pole: n_{sync} = 1200 rpm at 60 Hz																		
710	**1NA1 404-6AA10-0CA0**	1193	78	95.8	96.1	96.3	95.9	0.83	0.83	0.80	0.72	5683	2.40	0.85	5.1	27	400	1.00
710	**1NA1 404-6AA10-0AA0**	1192	80	95.7	96.1	96.4	96.0	0.81	0.81	0.79	0.71	5688	2.40	1.20	5.3	22	500	1.00
750	**1NA1 406-6AA10-0CA0**	1193	82	95.9	96.2	96.4	95.8	0.84	0.83	0.80	0.71	6003	2.55	0.85	5.4	31	450	1.00
750	**1NA1 406-6AA10-0AA0**	1192	83	95.8	96.2	96.4	96.0	0.82	0.82	0.79	0.71	6008	2.50	1.25	5.5	25	550	1.00
800	**1NA1 408-6AA10-0CA0**	1194	89	96.0	96.3	96.3	95.7	0.84	0.82	0.78	0.68	6398	2.85	1.00	6.0	34	550	1.00
800	**1NA1 408-6AA10-0AA0**	1193	90	96.0	96.3	96.4	95.9	0.82	0.81	0.78	0.68	6404	2.85	1.45	6.1	27	650	1.00
840	**1NA1 454-6AA10-0A.0**	1193	95	96.1	96.4	96.4	95.9	0.80	0.80	0.77	0.69	6724	2.40	1.15	6.0	32	1500	1.00
900	**1NA1 454-6AA10-0C.0**	1193	98	96.2	96.5	96.6	96.1	0.83	0.83	0.80	0.73	7204	2.45	0.70	5.3	41	1150	1.00
950	**1NA1 456-6AA10-0A.0**	1194	106	96.2	96.5	96.5	96.0	0.81	0.81	0.78	0.71	7598	2.40	1.15	6.1	37	1600	1.00
1000	**1NA1 456-6AA10-0C.0**	1193	108	96.3	96.6	96.6	96.2	0.84	0.84	0.81	0.73	8004	2.50	0.70	5.5	47	1250	1.00
1000	**1NA1 458-6AA10-0A.0**	1194	112	96.4	96.6	96.5	95.9	0.82	0.81	0.78	0.70	7998	2.70	1.25	6.6	44	2100	1.00
1020	**1NA1 458-6AA10-0C.0**	1194	112	96.5	96.7	96.5	96.0	0.85	0.83	0.80	0.71	8158	2.85	0.80	6.2	56	1400	1.00
1250	**1NA1 502-6AA10-0C.0**	1195	132	96.5	96.8	96.8	96.5	0.86	0.86	0.84	0.77	9989	2.45	0.65	6.1	68	1100	1.00
1210	**1NA1 502-6AA10-0A.0**	1193	134	96.2	96.6	96.8	96.5	0.81	0.82	0.80	0.75	9685	2.10	1.30	5.7	53	300	1.00
1450	**1NA1 504-6AA10-0C.0**	1195	152	96.6	96.9	97.0	96.6	0.87	0.86	0.84	0.77	11587	2.50	0.70	6.2	76	1000	1.00
1350	**1NA1 504-6AA10-0A.0**	1194	148	96.4	96.8	96.9	96.6	0.82	0.82	0.81	0.74	10797	2.25	1.40	6.0	60	350	1.00
1550	**1NA1 506-6AA10-0C.0**	1195	162	96.7	97.0	97.1	96.7	0.87	0.86	0.84	0.78	12386	2.60	0.70	6.4	86	1200	1.00
1450	**1NA1 506-6AA10-0A.0**	1194	158	96.5	96.9	97.0	96.7	0.83	0.83	0.81	0.75	11597	2.30	1.45	6.2	68	450	1.00
1650	**1NA1 508-6AA10-0A.0**	1194	180	96.7	97.0	97.1	96.8	0.83	0.83	0.81	0.75	13196	2.35	1.40	6.3	77	450	1.00
1760	**1NA1 508-6AA10-0C.0**	1195	184	96.9	97.1	97.2	96.8	0.87	0.86	0.84	0.78	14064	2.65	0.70	6.5	97	1450	1.00
2270	**1NA1 564-6AA10-0C.0**	1194	235	97.0	97.3	97.4	97.1	0.86	0.87	0.87	0.84	18155	2.25	0.45	4.6	137	1200	0.75
2400	**1NA1 566-6AA10-0C.0**	1195	250	97.2	97.4	97.4	96.9	0.87	0.87	0.85	0.80	19179	2.80	0.55	5.8	152	1700	1.00
2500	**1NA1 568-6AA10-0C.0**	1195	260	97.2	97.4	97.4	97.0	0.87	0.87	0.86	0.81	19978	2.70	0.55	5.6	167	2050	0.95
8-pole: n_{sync} = 900 rpm at 60 Hz																		
550	**1NA1 404-8AA10-0AA0**	891	63	95.2	95.8	96.1	95.8	0.80	0.80	0.77	0.68	5895	2.20	0.90	4.6	22	850	1.00
550	**1NA1 404-8AA10-0CA0**	893	63	95.4	95.9	96.0	95.6	0.81	0.80	0.76	0.67	5881	2.05	0.70	4.0	27	850	1.00
600	**1NA1 406-8AA10-0AA0**	891	68	95.4	96.0	96.2	96.0	0.81	0.80	0.78	0.69	6431	2.25	0.90	4.7	25	1100	1.00
600	**1NA1 406-8AA10-0CA0**	893	68	95.6	96.1	96.2	95.7	0.81	0.80	0.77	0.67	6416	2.05	0.70	4.1	31	1100	1.00
650	**1NA1 408-8AA10-0AA0**	892	74	95.7	96.1	96.2	95.8	0.81	0.80	0.76	0.67	6959	2.50	1.00	5.2	27	1400	1.00

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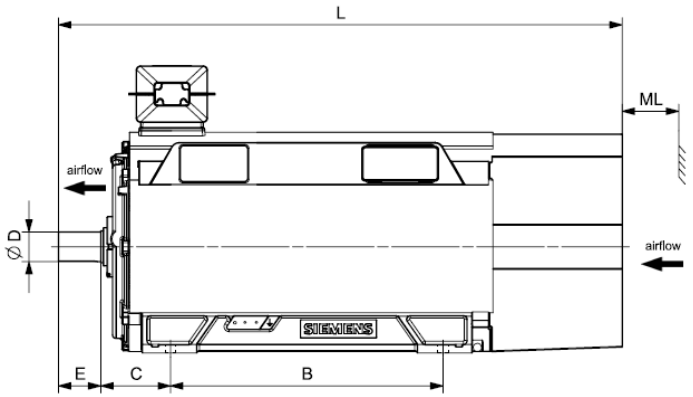
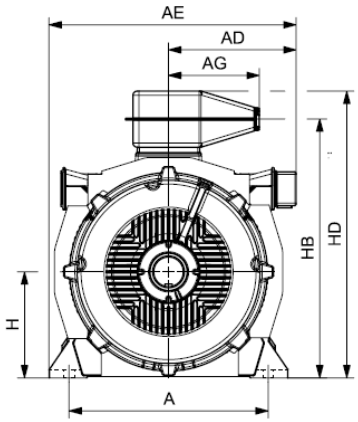
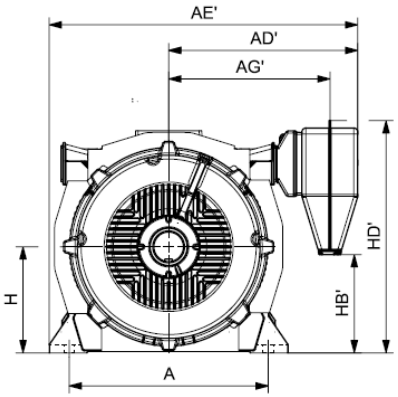
SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
650	**1NA1 408-8AA10-0CA0**	894	74	95.8	96.2	96.2	95.6	0.81	0.80	0.75	0.65	6943	2.30	0.80	4.5	34	1300	1.00
740	**1NA1 454-8AA10-0A.0**	893	86	95.5	96.0	96.2	95.7	0.78	0.78	0.75	0.68	7913	2.15	1.00	4.7	32	2000	1.00
760	**1NA1 454-8AA10-0C.0**	893	86	95.6	96.1	96.1	95.6	0.81	0.80	0.77	0.69	8127	2.15	0.70	4.1	41	1300	1.00
800	**1NA1 456-8AA10-0A.0**	893	92	95.7	96.1	96.2	95.7	0.79	0.79	0.76	0.68	8555	2.30	1.05	5.0	37	2200	1.00
820	**1NA1 456-8AA10-0C.0**	894	93	95.8	96.2	96.2	95.6	0.81	0.80	0.77	0.69	8759	2.25	0.75	4.4	47	1500	1.00
900	**1NA1 458-8AA10-0A.0**	894	104	96.0	96.3	96.3	95.7	0.79	0.78	0.74	0.65	9613	2.50	1.15	5.5	44	2950	1.00
900	**1NA1 458-8AA10-0C.0**	895	104	96.0	96.3	96.2	95.5	0.81	0.79	0.75	0.65	9603	2.55	0.85	4.9	56	2100	1.00
900	**1NA1 504-8AA10-0A.0**	894	102	95.6	96.0	96.0	95.6	0.81	0.81	0.78	0.71	9613	2.20	0.75	5.4	59	1700	1.00
910	**1NA1 504-8AA10-0C.0**	895	99	95.6	95.9	95.7	95.1	0.86	0.84	0.81	0.73	9709	2.55	0.75	5.6	76	1600	1.00
1000	**1NA1 506-8AA10-0A.0**	895	112	95.8	96.1	96.0	95.5	0.82	0.81	0.77	0.69	10670	2.40	0.85	5.9	66	2100	1.00
1000	**1NA1 506-8AA10-0C.0**	896	108	95.8	96.0	95.7	95.0	0.85	0.84	0.79	0.70	10658	2.80	0.85	6.2	85	1950	1.00
1100	**1NA1 508-8AA10-0A.0**	895	124	96.0	96.3	96.1	95.6	0.82	0.81	0.77	0.68	11737	2.60	0.90	6.3	75	3050	1.00
1080	**1NA1 508-8AA10-0C.0**	896	118	96.0	96.1	95.8	95.0	0.85	0.83	0.78	0.69	11510	3.05	0.85	6.7	96	2850	1.00
1400	**1NA1 564-8AA10-0C.0**	895	150	96.6	96.8	96.8	96.4	0.85	0.84	0.82	0.76	14937	2.45	0.60	4.9	136	3750	0.95
1550	**1NA1 566-8AA10-0C.0**	896	166	96.7	96.9	96.8	96.3	0.85	0.84	0.81	0.73	16519	2.70	0.65	5.3	152	3850	1.00
1600	**1NA1 568-8AA10-0C.0**	896	172	96.8	96.9	96.9	96.4	0.85	0.84	0.82	0.74	17052	2.70	0.60	5.4	167	4100	1.00







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2AA10-0C.0	3500	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 402-2AA10-0A.0	3400	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 404-2AA10-0C.0	3600	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 404-2AA10-0A.0	3500	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 406-2AA10-0A.0	3700	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 406-2AA10-0C.0	3800	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 408-2AA10-0A.0	3800	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 408-2AA10-0C.0	3900	750	520	804	970	1254	489	673	1120	254	85	130	400	o.r.	991	o.r.	1122	2162	160
1NA1 454-2AA10-0C.0	4800	850	564	848	1079	1363	489	717	1250	254	95	130	450	o.r.	1115	o.r.	1246	2286	180
1NA1 456-2AA10-0C.0	5000	850	564	848	1079	1363	489	717	1250	254	95	130	450	o.r.	1115	o.r.	1246	2286	180
1NA1 458-2AA10-0C.0	5300	850	564	848	1079	1363	489	717	1250	254	95	130	450	o.r.	1115	o.r.	1246	2286	180
1NA1 504-2AA10-0CC0	6200	950	610	894	1175	1459	489	763	1320	475	110	165	500	o.r.	1221	o.r.	1352	2662	200
1NA1 506-2AA10-0CC0	6600	950	610	894	1175	1459	489	763	1320	475	110	165	500	o.r.	1221	o.r.	1352	2662	200
1NA1 508-2AA10-0CC0	7000	950	610	894	1175	1459	489	763	1320	475	110	165	500	o.r.	1221	o.r.	1352	2662	200
1NA1 566-2AA10-0CC0	8500	1060	670	954	1305	1589	489	823	1400	560	120	165	560	o.r.	1348	o.r.	1479	2922	225
1NA1 568-2AA10-0CC0	9100	1060	670	954	1305	1589	489	823	1400	560	120	165	560	o.r.	1348	o.r.	1479	2922	225
4-pole																			
1NA1 404-4AA10-0A.0	3600	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 404-4AA10-0C.0	3700	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-4AA10-0A.0	3800	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-4AA10-0C.0	3900	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-4AA10-0A.0	4000	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160

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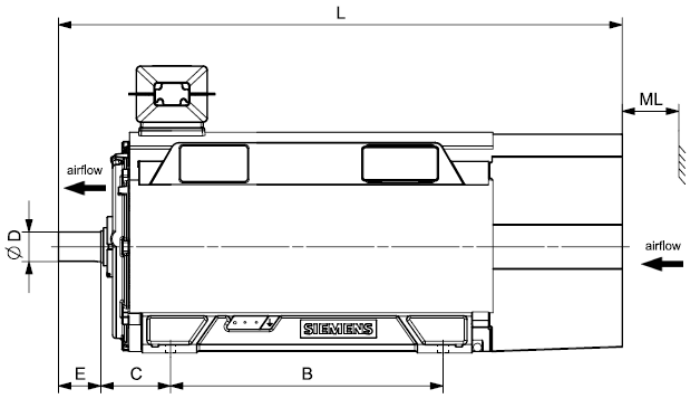

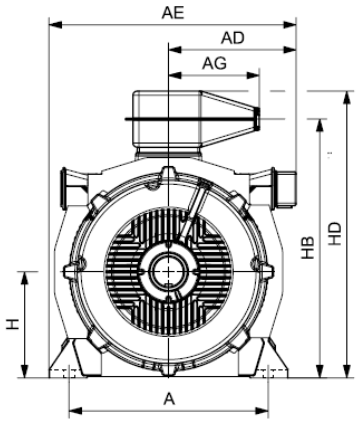

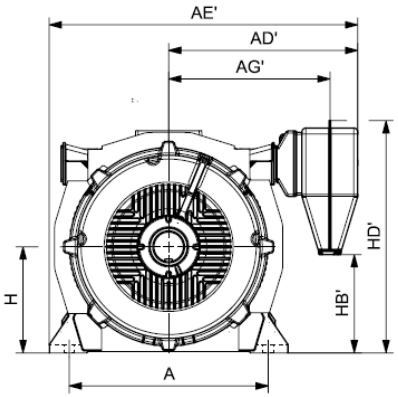

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 408-4AA10-0C.0	4100	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 454-4AA10-0A.0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 454-4AA10-0C.0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-4AA10-0A.0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-4AA10-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-4AA10-0A.0	5300	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-4AA10-0C.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 504-4AA10-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 504-4AA10-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-4AA10-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-4AA10-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-4AA10-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-4AA10-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 562-4AA10-0C.0	8300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 562-4AA10-0A.0	8000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 564-4AA10-0C.0	8700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 564-4AA10-0A.0	8400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 566-4AA10-0A.0	8800	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 566-4AA10-0C.0	9200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 568-4AA10-0A.0	9300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 568-4AA10-0C.0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
6-pole																			
1NA1 404-6AA10-0CA0	3800	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160

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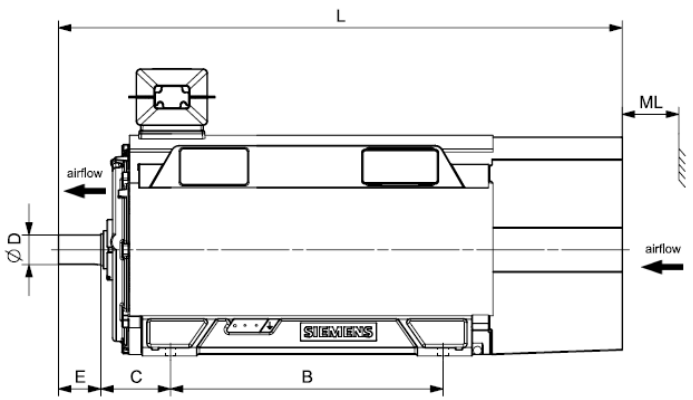
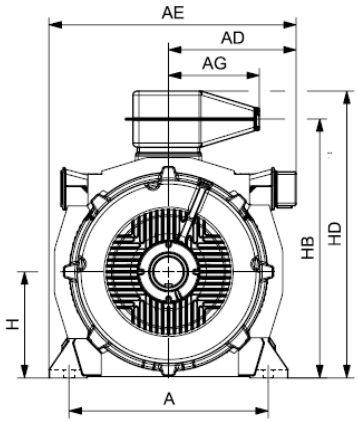
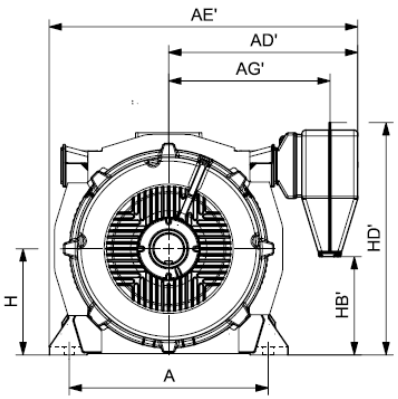
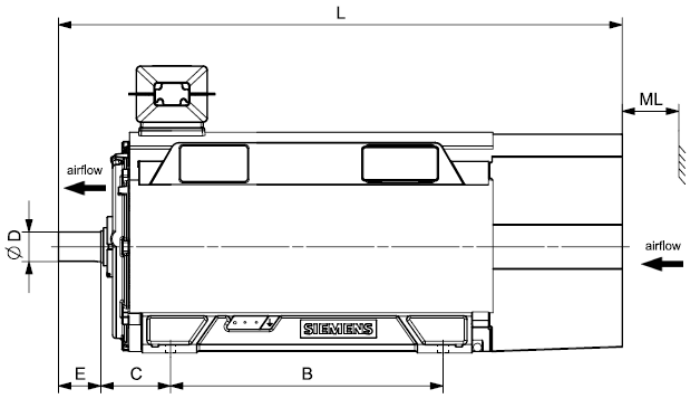
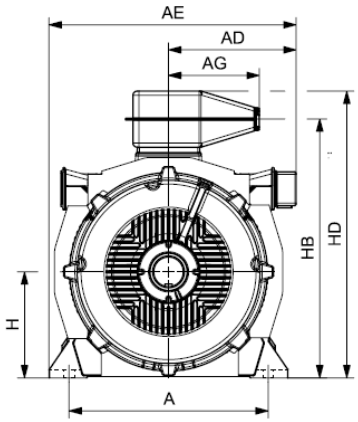


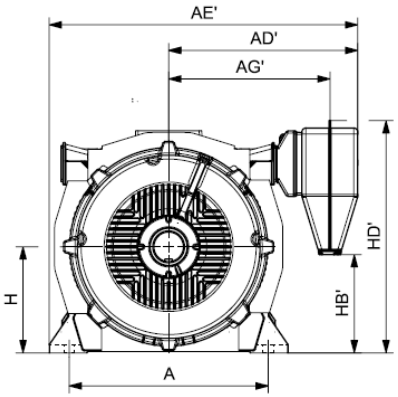




Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 404-6AA10-0AA0	3700	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-6AA10-0CA0	4100	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-6AA10-0AA0	3900	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-6AA10-0CA0	4300	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-6AA10-0AA0	4100	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 454-6AA10-0A.0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 454-6AA10-0C.0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-6AA10-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-6AA10-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-6AA10-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-6AA10-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 502-6AA10-0C.0	6200	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 502-6AA10-0A.0	6000	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 504-6AA10-0C.0	6600	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 504-6AA10-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-6AA10-0C.0	7000	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-6AA10-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-6AA10-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-6AA10-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 564-6AA10-0C.0	9100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 566-6AA10-0C.0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 568-6AA10-0C.0	10100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
8-pole																			







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 404-8AA10-0AA0	3700	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 404-8AA10-0CA0	3800	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-8AA10-0AA0	3900	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 406-8AA10-0CA0	4100	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-8AA10-0AA0	4100	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 408-8AA10-0CA0	4300	750	520	804	970	1254	489	673	1120	254	110	165	400	o.r.	991	o.r.	1122	2197	160
1NA1 454-8AA10-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 454-8AA10-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-8AA10-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 456-8AA10-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-8AA10-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 458-8AA10-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	o.r.	1115	o.r.	1246	2457	180
1NA1 504-8AA10-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 504-8AA10-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-8AA10-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 506-8AA10-0C.0	7000	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-8AA10-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 508-8AA10-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	o.r.	1221	o.r.	1352	2672	200
1NA1 564-8AA10-0C.0	9000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 566-8AA10-0C.0	9500	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225
1NA1 568-8AA10-0C.0	10100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	o.r.	1348	o.r.	1479	2847	225

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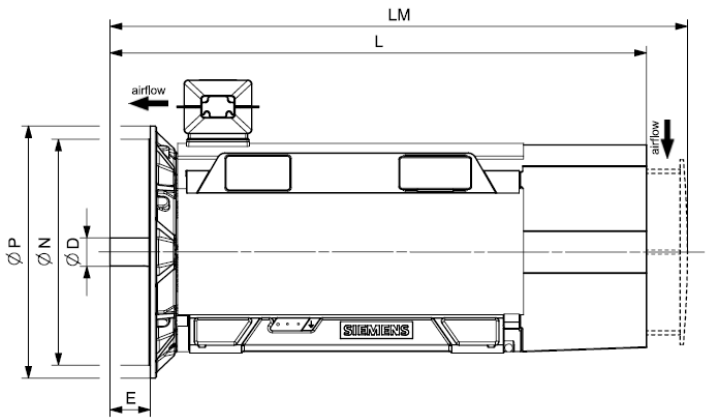

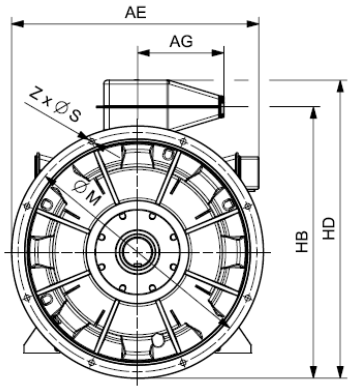

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 404-4AA14-0AA0	3700	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 404-4AA14-0CA0	3800	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-4AA14-0AA0	3900	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-4AA14-0CA0	4000	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-4AA14-0AA0	4100	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-4AA14-0CA0	4200	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 454-4AA14-0AA0	4900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-4AA14-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AA14-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AA14-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AA14-0AA0	5500	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AA14-0CA0	5700	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 504-4AA14-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-4AA14-0AA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AA14-0AA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AA14-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AA14-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AA14-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 562-4AA14-0CA0	8600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 562-4AA14-0AA0	8300	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AA14-0CA0	9000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AA14-0AA0	8700	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16

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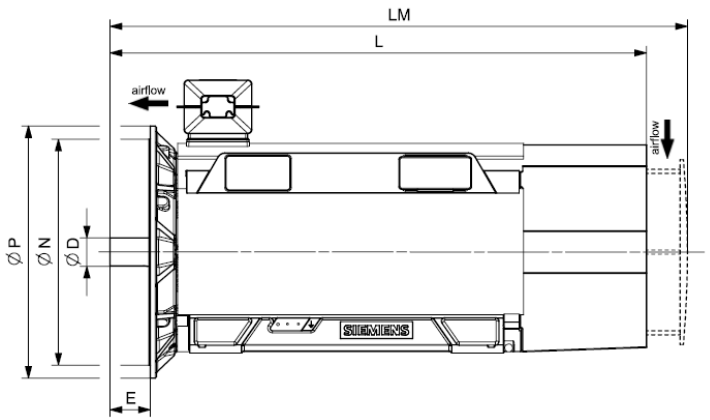

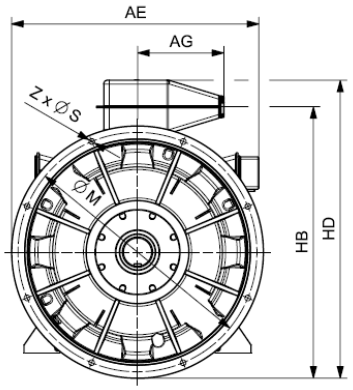

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 566-4AA14-0AA0	9100	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AA14-0CA0	9500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AA14-0AA0	9600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AA14-0CA0	10000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 404-6AA14-0CA0	3900	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 404-6AA14-0AA0	3800	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-6AA14-0CA0	4200	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-6AA14-0AA0	4000	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-6AA14-0CA0	4400	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-6AA14-0AA0	4200	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 454-6AA14-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-6AA14-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AA14-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AA14-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AA14-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AA14-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 502-6AA14-0CA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 502-6AA14-0AA0	6200	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AA14-0CA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AA14-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AA14-0CA0	7200	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AA14-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16

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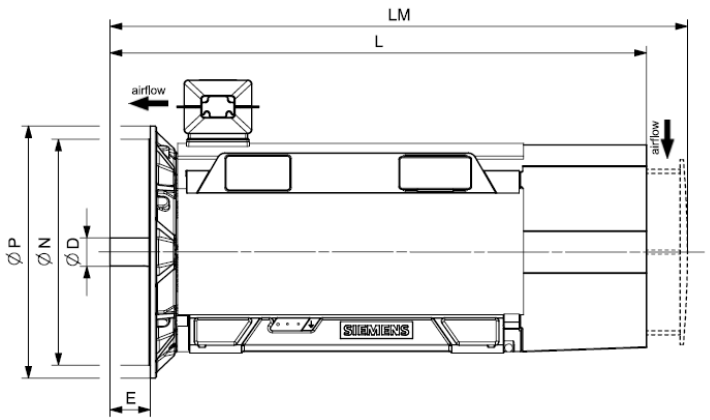

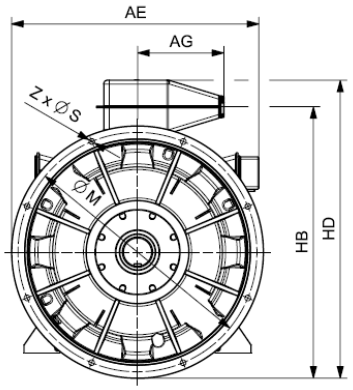

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 508-6AA14-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AA14-0CA0	7700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-6AA14-0CA0	9400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-6AA14-0CA0	10000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-6AA14-0CA0	10400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 404-8AA14-0AA0	3700	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 404-8AA14-0CA0	3900	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-8AA14-0AA0	4000	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 406-8AA14-0CA0	4200	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-8AA14-0AA0	4200	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 408-8AA14-0CA0	4400	1020	489	110	1091	1222	2197	2347	940	880	1000	22	8
1NA1 454-8AA14-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-8AA14-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AA14-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AA14-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AA14-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AA14-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 504-8AA14-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-8AA14-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AA14-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AA14-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AA14-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16

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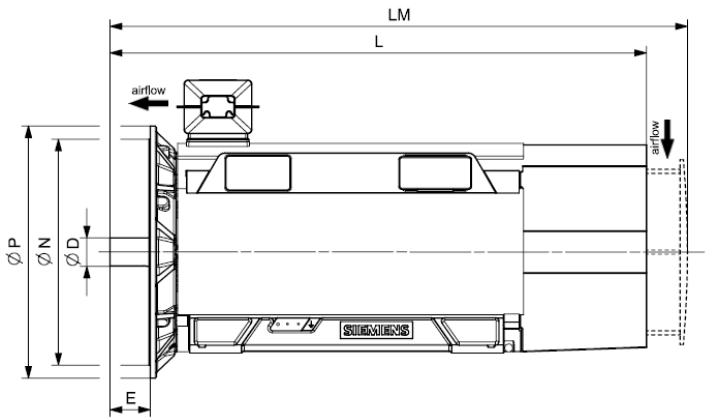

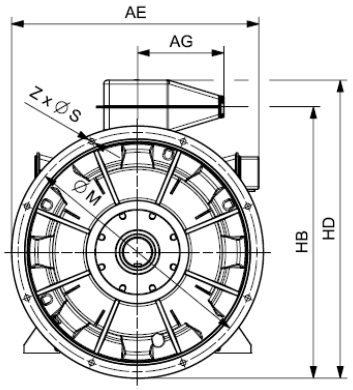

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 508-8AA14-0CA0	7700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-8AA14-0CA0	9300	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-8AA14-0CA0	9800	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-8AA14-0CA0	10400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque		Locked rotor current		Inertia		
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R		I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]		[-]		kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3000 rpm at 50 Hz																		
280	**1NA1 354-2AA80-0AA0**	2976	20	94.2	95.2	95.8	95.4	0.84	0.86	0.87	0.83	898	2.10	1.00		4.5		4	25	1.00
355	**1NA1 356-2AA80-0AA0**	2978	24	94.8	95.7	96.2	95.8	0.85	0.87	0.87	0.83	1138	2.25	1.10		4.9		5	30	1.00
400	**1NA1 358-2AA80-0AA0**	2979	28	95.0	95.9	96.4	96.1	0.86	0.87	0.88	0.83	1282	2.30	1.20		5.0		5	35	1.00
520	**1NA1 402-2AA80-0A.0**	2980	36	95.4	95.7	95.9	95.5	0.87	0.87	0.86	0.81	1666	2.50	1.00		5.3		9	45	1.00
520	**1NA1 402-2AA80-0C.0**	2976	36	95.2	95.6	95.8	95.4	0.87	0.87	0.86	0.81	1669	2.45	0.70		5.0		11	45	1.00
560	**1NA1 404-2AA80-0A.0**	2980	39	95.4	95.9	96.1	95.7	0.87	0.87	0.87	0.82	1794	2.45	1.00		5.3		10	45	1.00
560	**1NA1 404-2AA80-0C.0**	2976	38	95.3	95.8	96.0	95.6	0.88	0.88	0.87	0.82	1797	2.40	0.65		5.0		12	45	1.00
680	**1NA1 406-2AA80-0A.0**	2982	46	95.9	96.2	96.4	96.0	0.89	0.88	0.87	0.82	2178	2.80	1.10		6.0		11	60	1.00
690	**1NA1 406-2AA80-0C.0**	2980	47	95.9	96.2	96.3	95.9	0.89	0.88	0.86	0.79	2211	2.85	0.80		6.0		13	75	1.00
810	**1NA1 408-2AA80-0A.0**	2982	55	96.1	96.5	96.7	96.3	0.88	0.88	0.87	0.82	2594	2.70	1.20		5.8		12	55	1.00
800	**1NA1 408-2AA80-0C.0**	2978	54	96.0	96.4	96.6	96.2	0.89	0.89	0.87	0.82	2565	2.70	0.80		5.8		14	95	1.00
820	**1NA1 452-2AA80-0C.0**	2981	55	96.1	96.5	96.7	96.3	0.89	0.89	0.88	0.84	2627	2.50	0.85		5.7		17	115	1.00
850	**1NA1 452-2AA80-0A.0**	2983	58	96.3	96.7	96.8	96.5	0.87	0.87	0.86	0.82	2721	2.40	1.15		5.6		13	30	1.00
900	**1NA1 454-2AA80-0C.0**	2980	60	96.2	96.6	96.8	96.5	0.89	0.90	0.89	0.86	2884	2.45	0.85		5.7		18	125	1.00
900	**1NA1 454-2AA80-0A.0**	2984	61	96.5	96.9	97.0	96.6	0.88	0.88	0.87	0.83	2880	2.50	1.25		5.9		15	45	1.00
1000	**1NA1 456-2AA80-0A.0**	2983	66	96.5	96.9	97.0	96.8	0.89	0.90	0.89	0.85	3201	2.50	1.20		5.8		16	30	1.00
960	**1NA1 456-2AA80-0C.0**	2983	63	96.4	96.8	96.9	96.6	0.91	0.91	0.90	0.85	3073	2.75	0.90		6.4		20	150	1.00
1050	**1NA1 458-2AA80-0A.0**	2987	69	96.8	97.0	97.1	96.7	0.90	0.90	0.88	0.82	3357	3.15	1.70		7.3		18	35	0.90
1060	**1NA1 458-2AA80-0C.0**	2986	69	96.7	97.0	97.0	96.6	0.91	0.91	0.89	0.83	3390	3.25	1.15		7.7		22	150	1.00
1250	**1NA1 504-2AA80-0AC0**	2984	85	96.6	96.9	97.0	96.6	0.88	0.88	0.88	0.85	4000	2.50	0.75		5.4		23	65	0.85
1250	**1NA1 504-2AA80-0C.0**	2986	83	96.6	96.8	96.8	96.4	0.90	0.90	0.90	0.86	3998	2.80	0.70		5.9		27	150	1.00
1320	**1NA1 506-2AA80-0AC0**	2986	88	96.8	97.0	97.1	96.7	0.89	0.89	0.89	0.85	4221	2.70	0.85		5.9		26	85	0.95
1340	**1NA1 506-2AA80-0C.0**	2986	88	96.8	97.0	97.0	96.5	0.91	0.91	0.90	0.86	4285	2.95	0.75		6.3		31	200	1.00
1500	**1NA1 508-2AA80-0AC0**	2987	99	97.0	97.2	97.2	96.8	0.90	0.90	0.89	0.84	4795	3.05	0.95		6.5		28	105	1.00
1510	**1NA1 508-2AA80-0C.0**	2988	99	97.0	97.1	97.1	96.6	0.91	0.91	0.90	0.85	4826	3.30	0.80		7.1		34	200	1.00
1700	**1NA1 566-2AA80-0C.0**	2988	110	97.0	97.2	97.2	96.7	0.90	0.91	0.91	0.89	5433	2.45	0.60		5.4		55	350	0.75
1910	**1NA1 568-2AA80-0C.0**	2989	124	97.2	97.4	97.3	96.9	0.91	0.92	0.91	0.88	6102	2.85	0.70		6.3		60	350	0.90
4-pole: n_{sync} = 1500 rpm at 50 Hz																		
355	**1NA1 356-4AA80-0AA0**	1483	26	94.1	95.0	95.5	95.5	0.84	0.85	0.81	0.81	2286	2.20	1.15		4.8		6	150	1.00
400	**1NA1 357-4AA80-0AA0**	1486	28	95.0	95.6	96.0	95.8	0.86	0.86	0.80	0.78	2570	2.70	1.45		5.9		7	250	1.00
580	**1NA1 404-4AA80-0A.0**	1488	42	95.4	95.9	96.1	95.8	0.85	0.84	0.83	0.76	3722	2.50	1.20		5.2		12	400	1.00
600	**1NA1 404-4AA80-0C.0**	1489	43	95.4	95.9	96.2	95.9	0.84	0.84	0.83	0.77	3848	2.40	0.60		5.0		15	200	1.00
650	**1NA1 406-4AA80-0A.0**	1488	46	95.6	96.0	96.3	96.1	0.84	0.85	0.83	0.77	4171	2.40	1.10		5.1		13	400	1.00
650	**1NA1 406-4AA80-0C.0**	1489	46	95.6	96.1	96.4	96.1	0.84	0.85	0.83	0.77	4169	2.40	0.60		5.0		17	300	1.00
720	**1NA1 408-4AA80-0A.0**	1490	51	95.8	96.2	96.4	96.0	0.86	0.85	0.82	0.75	4614	2.80	1.35		5.9		15	450	1.00
730	**1NA1 408-4AA80-0C.0**	1491	51	95.9	96.3	96.4	96.1	0.86	0.85	0.83	0.75	4675	2.80	0.70		5.7		19	300	1.00

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SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
800	**1NA1 452-4AA80-0A.0**	1490	58	95.8	96.3	96.5	96.2	0.83	0.83	0.81	0.74	5127	2.30	1.10	5.2	20	350	1.00
770	**1NA1 452-4AA80-0C.0**	1491	55	95.9	96.3	96.4	96.0	0.85	0.84	0.82	0.74	4932	2.60	0.75	5.9	25	350	1.00
900	**1NA1 454-4AA80-0A.0**	1490	65	96.0	96.5	96.7	96.4	0.83	0.83	0.81	0.75	5768	2.30	1.10	5.2	22	400	1.00
900	**1NA1 454-4AA80-0C.0**	1491	63	96.1	96.5	96.7	96.3	0.85	0.85	0.82	0.76	5764	2.50	0.75	5.7	28	450	1.00
960	**1NA1 456-4AA80-0A.0**	1491	69	96.3	96.6	96.8	96.4	0.84	0.83	0.80	0.72	6148	2.65	1.30	6.0	25	550	1.00
1000	**1NA1 456-4AA80-0C.0**	1492	70	96.3	96.7	96.8	96.4	0.86	0.85	0.82	0.74	6400	2.75	0.80	6.4	32	550	1.00
1020	**1NA1 458-4AA80-0A.0**	1492	72	96.4	96.7	96.8	96.4	0.84	0.84	0.80	0.72	6528	2.75	1.35	6.2	28	650	1.00
1040	**1NA1 458-4AA80-0C.0**	1493	73	96.5	96.8	96.8	96.4	0.86	0.85	0.82	0.73	6652	2.95	0.85	6.8	35	650	1.00
1350	**1NA1 504-4AA80-0C.0**	1492	95	96.5	96.7	96.7	96.2	0.84	0.85	0.83	0.76	8640	2.50	0.70	6.2	42	850	1.00
1350	**1NA1 504-4AA80-0A.0**	1491	97	96.4	96.6	96.7	96.2	0.83	0.83	0.81	0.74	8646	2.40	0.95	5.5	33	300	1.00
1500	**1NA1 506-4AA80-0C.0**	1493	104	96.6	96.8	96.8	96.4	0.86	0.86	0.83	0.76	9594	2.75	0.80	6.7	48	1050	1.00
1450	**1NA1 506-4AA80-0A.0**	1492	104	96.5	96.7	96.7	96.3	0.84	0.84	0.81	0.74	9280	2.70	1.10	6.2	38	400	1.00
1620	**1NA1 508-4AA80-0A.0**	1492	114	96.6	96.8	96.9	96.5	0.85	0.85	0.83	0.77	10369	2.55	1.05	5.8	43	450	1.00
1670	**1NA1 508-4AA80-0C.0**	1493	114	96.7	96.9	97.0	96.6	0.86	0.87	0.85	0.78	10681	2.65	0.75	6.4	55	1100	1.00
1800	**1NA1 562-4AA80-0C.0**	1492	124	96.7	96.9	96.9	96.4	0.85	0.87	0.85	0.80	11521	2.25	0.70	5.7	72	850	1.00
1800	**1NA1 562-4AA80-0A.0**	1492	126	96.6	96.8	96.8	96.3	0.83	0.85	0.83	0.78	11521	2.15	0.90	5.3	55	450	0.90
2000	**1NA1 564-4AA80-0A.0**	1493	140	96.8	97.0	97.0	96.5	0.83	0.85	0.83	0.78	12792	2.15	0.90	5.4	60	450	0.90
2020	**1NA1 564-4AA80-0C.0**	1492	140	96.9	97.1	97.1	96.7	0.85	0.86	0.85	0.80	12929	2.20	0.65	5.6	79	950	1.00
2150	**1NA1 566-4AA80-0A.0**	1493	148	97.0	97.2	97.1	96.6	0.85	0.86	0.84	0.78	13751	2.35	1.00	5.8	67	550	1.00
2200	**1NA1 566-4AA80-0C.0**	1493	150	97.0	97.2	97.2	96.8	0.86	0.87	0.86	0.80	14071	2.40	0.70	6.0	88	1200	1.00
2260	**1NA1 568-4AA80-0A.0**	1494	156	97.1	97.3	97.2	96.6	0.86	0.86	0.84	0.76	14445	2.65	1.15	6.4	74	700	1.00
2310	**1NA1 568-4AA80-0C.0**	1494	156	97.2	97.4	97.3	96.8	0.87	0.88	0.86	0.79	14765	2.70	0.85	6.8	97	1700	1.00
6-pole: n_{sync} = 1000 rpm at 50 Hz																		
430	**1NA1 404-6AA80-0AA0**	992	32	94.9	95.5	95.9	95.6	0.81	0.80	0.77	0.68	4139	2.55	0.95	5.5	12	550	1.00
420	**1NA1 404-6AA80-0CA0**	992	32	94.8	95.4	95.7	95.4	0.81	0.80	0.77	0.68	4043	2.25	0.75	4.5	15	450	1.00
500	**1NA1 406-6AA80-0AA0**	991	37	95.2	95.8	96.2	95.9	0.81	0.81	0.78	0.70	4818	2.45	0.95	5.4	13	700	1.00
500	**1NA1 406-6AA80-0CA0**	991	37	95.0	95.7	96.1	95.8	0.81	0.81	0.78	0.71	4818	2.15	0.70	4.3	17	550	1.00
530	**1NA1 408-6AA80-0CA0**	992	40	95.3	95.8	96.1	95.8	0.82	0.81	0.78	0.69	5102	2.30	0.75	4.6	19	650	1.00
550	**1NA1 408-6AA80-0AA0**	993	42	95.5	95.9	96.2	95.8	0.82	0.80	0.76	0.66	5289	2.85	1.15	6.0	15	750	1.00
630	**1NA1 454-6AA80-0A.0**	993	47	95.5	96.0	96.1	95.8	0.81	0.81	0.78	0.71	6058	2.40	1.15	5.8	32	800	1.00
630	**1NA1 454-6AA80-0C.0**	994	46	95.7	96.1	96.2	95.8	0.84	0.83	0.80	0.72	6052	2.60	0.80	5.6	41	700	1.00
710	**1NA1 456-6AA80-0A.0**	994	53	95.8	96.2	96.3	95.9	0.81	0.81	0.78	0.70	6821	2.55	1.20	6.2	37	1300	1.00
710	**1NA1 456-6AA80-0C.0**	994	51	96.0	96.3	96.3	95.9	0.84	0.83	0.79	0.71	6821	2.80	0.85	6.0	47	1050	1.00
800	**1NA1 458-6AA80-0A.0**	994	59	96.1	96.4	96.4	96.0	0.82	0.81	0.78	0.69	7686	2.70	1.30	6.6	44	1750	1.00
810	**1NA1 458-6AA80-0C.0**	994	58	96.2	96.4	96.4	96.0	0.85	0.83	0.79	0.70	7782	2.95	0.90	6.2	56	1350	1.00
1000	**1NA1 502-6AA80-0C.0**	995	70	96.1	96.5	96.7	96.4	0.87	0.86	0.83	0.76	9597	2.55	0.75	6.2	68	900	1.00
930	**1NA1 502-6AA80-0A.0**	994	68	95.9	96.3	96.6	96.4	0.82	0.82	0.80	0.73	8934	2.30	1.30	6.0	53	1100	1.00

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SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]		kgm^2	kgm^2	[-]
1000	**1NA1 504-6AA80-0A.0**	994	73	96.0	96.5	96.7	96.5	0.83	0.82	0.80	0.74	9607	2.35	1.35	6.1		60	1450	1.00
1120	**1NA1 504-6AA80-0C.0**	995	78	96.2	96.6	96.8	96.6	0.87	0.86	0.84	0.78	10749	2.50	0.70	6.1		76	950	1.00
1120	**1NA1 506-6AA80-0A.0**	994	81	96.2	96.6	96.8	96.6	0.83	0.83	0.81	0.74	10760	2.40	1.40	6.2		68	1450	1.00
1150	**1NA1 506-6AA80-0C.0**	996	80	96.4	96.7	96.9	96.6	0.87	0.86	0.84	0.76	11026	2.75	0.80	6.8		86	1250	1.00
1250	**1NA1 508-6AA80-0A.0**	994	90	96.4	96.7	96.9	96.7	0.84	0.83	0.81	0.74	12009	2.50	1.45	6.4		77	1600	1.00
1300	**1NA1 508-6AA80-0C.0**	996	90	96.6	96.9	97.0	96.7	0.87	0.86	0.84	0.76	12464	2.85	0.85	7.0		97	1450	1.00
1650	**1NA1 564-6AA80-0C.0**	995	112	96.7	97.1	97.2	97.0	0.87	0.88	0.86	0.82	15836	2.55	0.55	5.2		137	2250	0.95
1800	**1NA1 566-6AA80-0C.0**	995	122	96.9	97.2	97.3	97.1	0.87	0.87	0.86	0.81	17275	2.65	0.55	5.5		152	2500	1.00
2000	**1NA1 568-6AA80-0C.0**	996	136	97.1	97.3	97.4	97.0	0.87	0.87	0.84	0.78	19175	3.05	0.65	6.3		167	3000	1.00
8-pole: n_{sync} = 750 rpm at 50 Hz																			
300	**1NA1 404-8AA80-0AA0**	740	24	93.6	94.4	94.8	94.5	0.78	0.77	0.73	0.62	3871	2.35	0.75	4.3		12	650	1.00
300	**1NA1 404-8AA80-0CA0**	743	24	94.0	94.7	94.9	94.4	0.77	0.76	0.71	0.60	3856	1.95	0.60	3.6		15	650	0.85
320	**1NA1 406-8AA80-0AA0**	740	25	93.9	94.7	94.9	94.6	0.79	0.78	0.73	0.62	4129	2.45	0.75	4.5		14	850	1.00
330	**1NA1 406-8AA80-0CA0**	743	26	94.3	94.9	95.1	94.6	0.78	0.76	0.71	0.61	4241	1.95	0.60	3.6		17	700	0.85
350	**1NA1 408-8AA80-0AA0**	740	28	94.2	94.8	95.1	94.7	0.80	0.78	0.73	0.62	4517	2.50	0.80	4.6		15	1050	1.00
360	**1NA1 408-8AA80-0CA0**	744	28	94.5	95.1	95.2	94.7	0.78	0.77	0.72	0.61	4621	2.00	0.60	3.8		19	800	0.85
500	**1NA1 454-8AA80-0A.0**	743	39	94.3	95.1	95.5	95.2	0.79	0.78	0.76	0.69	6426	2.15	1.00	4.6		32	900	1.00
510	**1NA1 454-8AA80-0C.0**	744	38	94.5	95.2	95.4	95.1	0.82	0.81	0.78	0.70	6546	2.15	0.75	4.2		41	800	1.00
570	**1NA1 456-8AA80-0A.0**	744	44	95.0	95.5	95.7	95.3	0.80	0.78	0.75	0.66	7316	2.45	1.20	5.2		37	1350	1.00
600	**1NA1 456-8AA80-0C.0**	744	46	95.0	95.5	95.7	95.2	0.82	0.80	0.76	0.67	7701	2.35	0.85	4.6		47	1050	1.00
630	**1NA1 458-8AA80-0A.0**	744	48	95.2	95.8	96.0	95.6	0.80	0.79	0.76	0.68	8086	2.40	1.10	5.2		44	1750	1.00
630	**1NA1 458-8AA80-0C.0**	745	48	95.4	95.8	95.9	95.4	0.82	0.80	0.77	0.68	8075	2.45	0.85	4.7		56	1550	1.00
630	**1NA1 502-8AA80-0A.0**	745	48	95.1	95.6	95.6	95.1	0.80	0.79	0.74	0.65	8075	2.50	0.85	6.0		52	1700	1.00
630	**1NA1 502-8AA80-0C.0**	746	46	95.2	95.5	95.3	94.6	0.85	0.82	0.77	0.66	8064	2.90	0.85	6.2		67	1650	1.00
710	**1NA1 504-8AA80-0A.0**	745	54	95.2	95.7	95.8	95.5	0.81	0.80	0.77	0.69	9101	2.35	0.80	5.7		59	1850	1.00
710	**1NA1 504-8AA80-0C.0**	745	51	95.3	95.7	95.6	95.0	0.85	0.84	0.79	0.70	9101	2.70	0.80	5.9		76	1800	1.00
800	**1NA1 506-8AA80-0A.0**	745	61	95.5	95.9	95.8	95.4	0.81	0.79	0.75	0.65	10254	2.75	1.00	6.5		66	2350	1.00
800	**1NA1 506-8AA80-0C.0**	746	59	95.6	95.8	95.6	94.9	0.85	0.82	0.77	0.66	10241	3.15	0.95	6.8		85	2200	1.00
860	**1NA1 508-8AA80-0A.0**	746	65	95.7	96.0	95.9	95.4	0.82	0.80	0.75	0.65	11009	2.80	1.00	6.6		75	2850	1.00
870	**1NA1 508-8AA80-0C.0**	746	63	95.7	95.9	95.7	95.0	0.85	0.83	0.77	0.67	11137	3.15	0.95	6.8		96	2550	1.00
1150	**1NA1 564-8AA80-0C.0**	745	82	96.2	96.6	96.8	96.5	0.85	0.84	0.82	0.75	14741	2.45	0.65	4.9		136	3150	1.00
1210	**1NA1 566-8AA80-0C.0**	746	86	96.4	96.7	96.9	96.6	0.85	0.84	0.82	0.74	15489	2.55	0.65	5.2		152	3750	1.00
1300	**1NA1 568-8AA80-0C.0**	746	93	96.6	96.8	96.9	96.5	0.85	0.83	0.80	0.71	16641	2.85	0.70	5.7		167	4250	1.00

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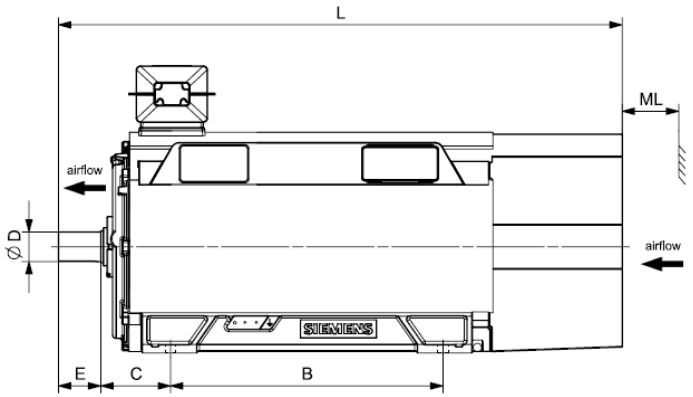

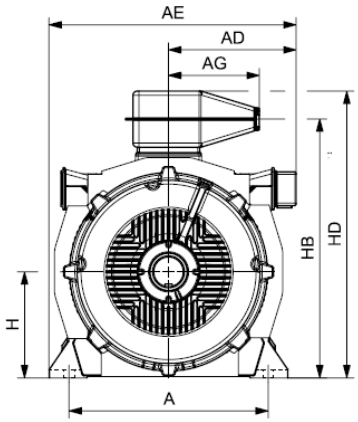

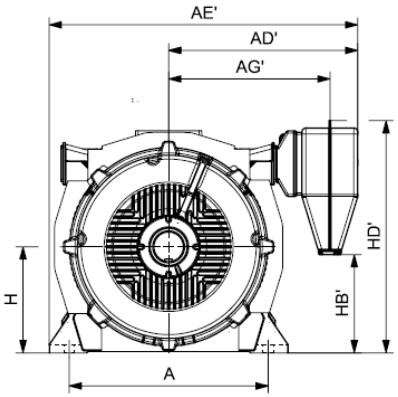

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 354-2AA80-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 356-2AA80-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 358-2AA80-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 402-2AA80-0A.0	3300	750	710	955	1160	1405	710	775	1120	254	85	130	400	o.r.	1093	o.r.	1273	2162	160
1NA1 402-2AA80-0C.0	3400	750	710	955	1160	1405	710	775	1120	254	85	130	400	o.r.	1093	o.r.	1273	2162	160
1NA1 404-2AA80-0A.0	3400	750	710	955	1160	1405	710	775	1120	254	85	130	400	o.r.	1093	o.r.	1273	2162	160
1NA1 404-2AA80-0C.0	3500	750	710	955	1160	1405	710	775	1120	254	85	130	400	o.r.	1093	o.r.	1273	2162	160
1NA1 406-2AA80-0A.0	3600	750	710	955	1160	1405	710	775	1120	254	85	130	400	o.r.	1093	o.r.	1273	2162	160
1NA1 406-2AA80-0C.0	3700	750	710	955	1160	1405	710	775	1120	254	85	130	400	o.r.	1093	o.r.	1273	2162	160
1NA1 408-2AA80-0A.0	3800	750	710	955	1160	1405	710	775	1120	254	85	130	400	o.r.	1093	o.r.	1273	2162	160
1NA1 408-2AA80-0C.0	3900	750	710	955	1160	1405	710	775	1120	254	85	130	400	o.r.	1093	o.r.	1273	2162	160
1NA1 452-2AA80-0C.0	4500	850	710	999	1225	1514	710	819	1250	254	95	130	450	o.r.	1217	o.r.	1397	2286	180
1NA1 452-2AA80-0A.0	4400	850	710	999	1225	1514	710	819	1250	254	95	130	450	o.r.	1217	o.r.	1397	2286	180
1NA1 454-2AA80-0C.0	4800	850	710	999	1225	1514	710	819	1250	254	95	130	450	o.r.	1217	o.r.	1397	2286	180
1NA1 454-2AA80-0A.0	4600	850	710	999	1225	1514	710	819	1250	254	95	130	450	o.r.	1217	o.r.	1397	2286	180
1NA1 456-2AA80-0A.0	4800	850	710	999	1225	1514	710	819	1250	254	95	130	450	o.r.	1217	o.r.	1397	2286	180
1NA1 456-2AA80-0C.0	5000	850	710	999	1225	1514	710	819	1250	254	95	130	450	o.r.	1217	o.r.	1397	2286	180
1NA1 458-2AA80-0A.0	5000	850	710	999	1225	1514	710	819	1250	254	95	130	450	o.r.	1217	o.r.	1397	2286	180
1NA1 458-2AA80-0C.0	5200	850	710	999	1225	1514	710	819	1250	254	95	130	450	o.r.	1217	o.r.	1397	2286	180
1NA1 504-2AA80-0AC0	6000	950	710	1045	1275	1610	710	865	1320	475	110	165	500	o.r.	1323	o.r.	1503	2662	200
1NA1 504-2AA80-0C.0	6200	950	710	1045	1275	1610	710	865	1320	280	110	165	500	o.r.	1323	o.r.	1503	2472	200
1NA1 506-2AA80-0AC0	6400	950	710	1045	1275	1610	710	865	1320	475	110	165	500	o.r.	1323	o.r.	1503	2662	200

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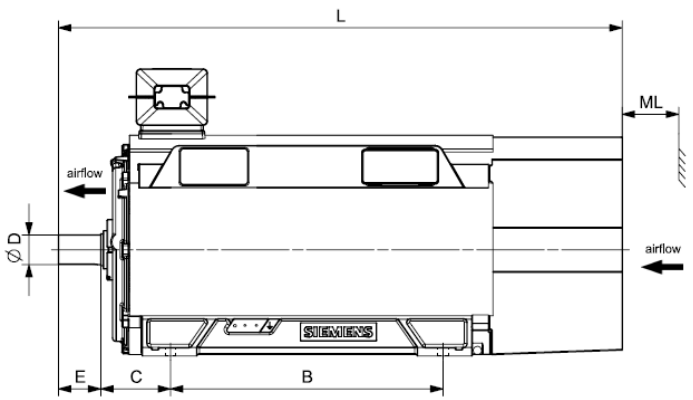
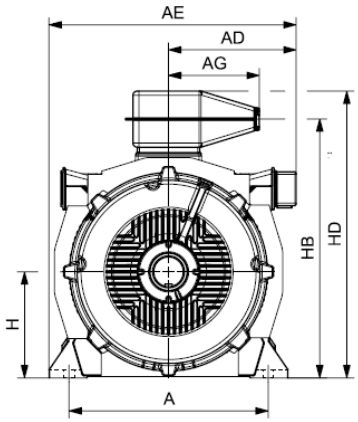
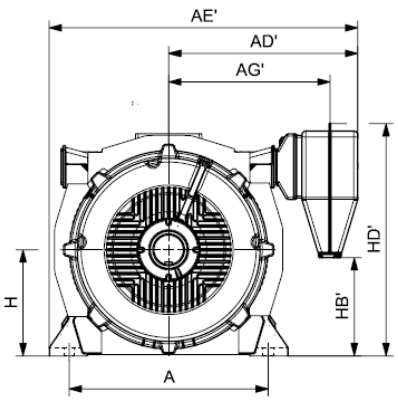
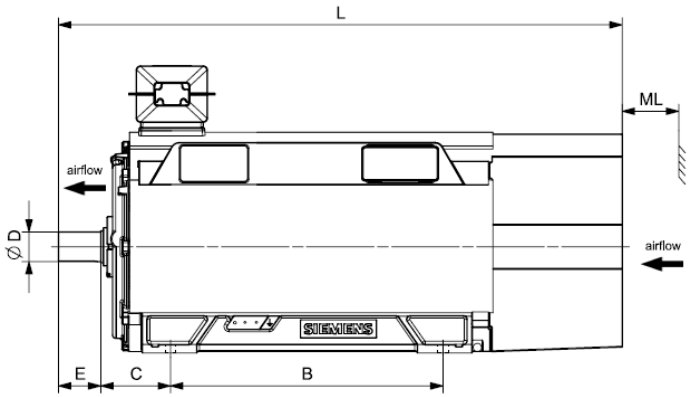
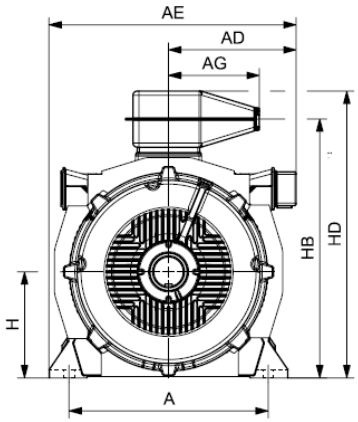


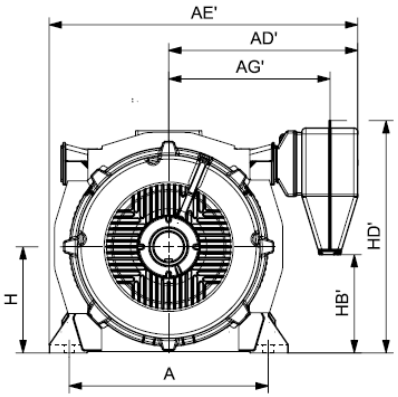




Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 506-2AA80-0C.0	6600	950	710	1045	1275	1610	710	865	1320	280	110	165	500	o.r.	1323	o.r.	1503	2472	200
1NA1 508-2AA80-0AC0	6700	950	710	1045	1275	1610	710	865	1320	475	110	165	500	o.r.	1323	o.r.	1503	2662	200
1NA1 508-2AA80-0C.0	6900	950	710	1045	1275	1610	710	865	1320	280	110	165	500	o.r.	1323	o.r.	1503	2472	200
1NA1 566-2AA80-0C.0	8900	1060	710	1105	1345	1740	710	925	1400	290	120	165	560	o.r.	1450	o.r.	1630	2642	225
1NA1 568-2AA80-0C.0	9300	1060	710	1105	1345	1740	710	925	1400	290	120	165	560	o.r.	1450	o.r.	1630	2642	225
4-pole																			
1NA1 356-4AA80-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 357-4AA80-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NA1 404-4AA80-0A.0	3500	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 404-4AA80-0C.0	3600	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 406-4AA80-0A.0	3700	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 406-4AA80-0C.0	3900	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 408-4AA80-0A.0	4000	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 408-4AA80-0C.0	4100	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 452-4AA80-0A.0	4500	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 452-4AA80-0C.0	4600	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 454-4AA80-0A.0	4700	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 454-4AA80-0C.0	4800	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 456-4AA80-0A.0	5000	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 456-4AA80-0C.0	5200	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 458-4AA80-0A.0	5300	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 458-4AA80-0C.0	5500	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 504-4AA80-0C.0	6500	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 504-4AA80-0A.0	6300	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 506-4AA80-0C.0	6900	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 506-4AA80-0A.0	6600	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 508-4AA80-0A.0	7100	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 508-4AA80-0C.0	7300	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 562-4AA80-0C.0	8200	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 562-4AA80-0A.0	7900	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 564-4AA80-0A.0	8300	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 564-4AA80-0C.0	8700	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 566-4AA80-0A.0	8800	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 566-4AA80-0C.0	9100	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 568-4AA80-0A.0	9200	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 568-4AA80-0C.0	9600	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
6-pole																			
1NA1 404-6AA80-0AA0	3500	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 404-6AA80-0CA0	3600	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 406-6AA80-0AA0	3700	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 406-6AA80-0CA0	3800	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 408-6AA80-0CA0	4100	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 408-6AA80-0AA0	3900	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 454-6AA80-0A.0	4600	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 454-6AA80-0C.0	4800	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 456-6AA80-0A.0	5000	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180

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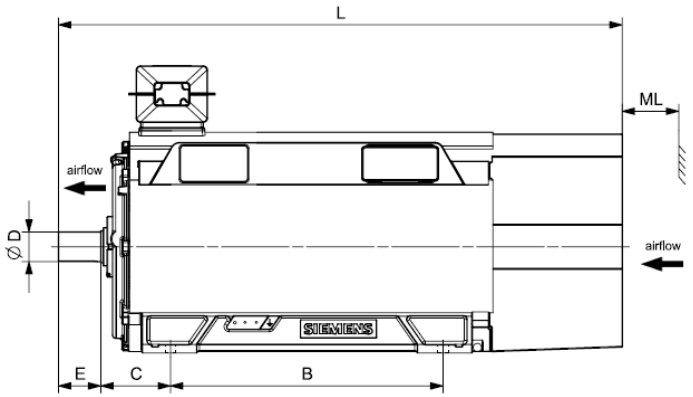

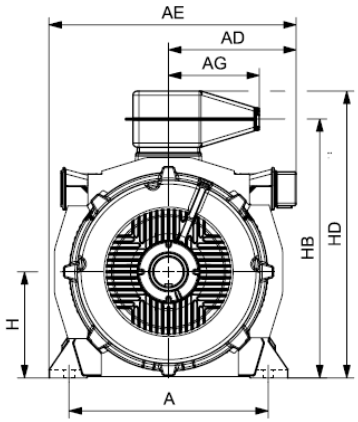

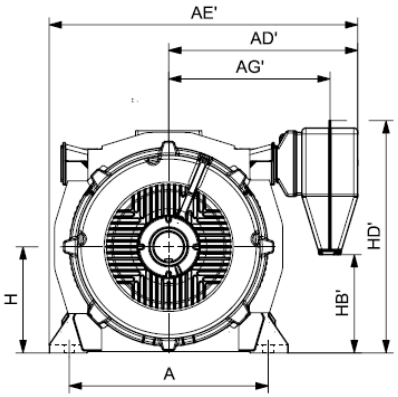

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 456-6AA80-0C.0	5200	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 458-6AA80-0A.0	5400	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 458-6AA80-0C.0	5700	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 502-6AA80-0C.0	6200	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 502-6AA80-0A.0	5900	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 504-6AA80-0A.0	6300	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 504-6AA80-0C.0	6500	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 506-6AA80-0A.0	6700	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 506-6AA80-0C.0	7000	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 508-6AA80-0A.0	7200	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 508-6AA80-0C.0	7500	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 564-6AA80-0C.0	9000	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 566-6AA80-0C.0	9600	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 568-6AA80-0C.0	10100	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
8-pole																			
1NA1 404-8AA80-0AA0	3400	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 404-8AA80-0CA0	3600	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 406-8AA80-0AA0	3600	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 406-8AA80-0CA0	3800	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 408-8AA80-0AA0	3900	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 408-8AA80-0CA0	4000	750	710	955	1160	1405	710	775	1120	254	110	165	400	o.r.	1093	o.r.	1273	2197	160
1NA1 454-8AA80-0A.0	4600	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 454-8AA80-0C.0	4800	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180

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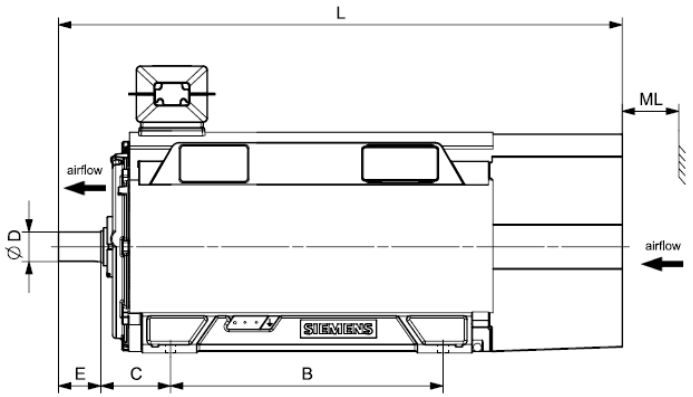
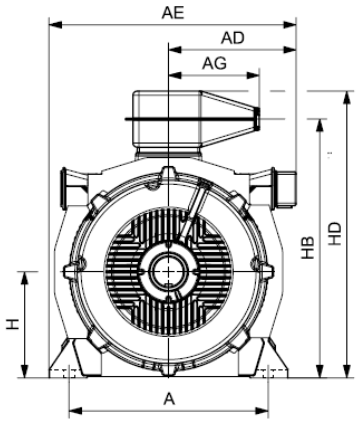
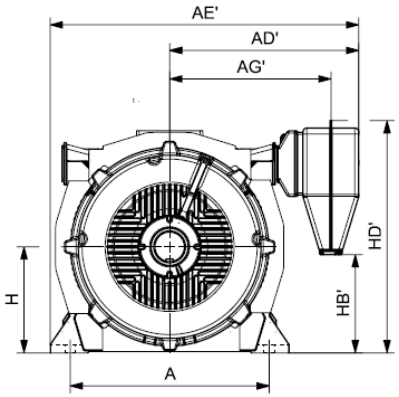
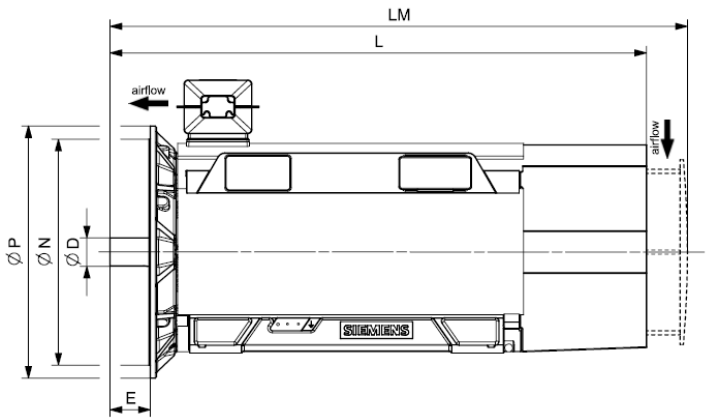
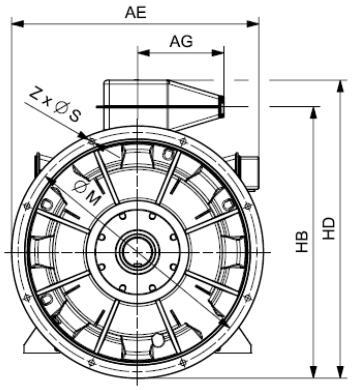






Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 456-8AA80-0A.0	4900	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 456-8AA80-0C.0	5100	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 458-8AA80-0A.0	5400	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 458-8AA80-0C.0	5600	850	710	999	1225	1514	710	819	1250	280	120	165	450	o.r.	1217	o.r.	1397	2457	180
1NA1 502-8AA80-0A.0	5900	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 502-8AA80-0C.0	6100	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 504-8AA80-0A.0	6300	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 504-8AA80-0C.0	6500	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 506-8AA80-0A.0	6700	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 506-8AA80-0C.0	6900	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 508-8AA80-0A.0	7100	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 508-8AA80-0C.0	7400	950	710	1045	1275	1610	710	865	1320	315	140	200	500	o.r.	1323	o.r.	1503	2672	200
1NA1 564-8AA80-0C.0	8900	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 566-8AA80-0C.0	9500	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225
1NA1 568-8AA80-0C.0	10000	1060	710	1105	1345	1740	710	925	1400	335	160	240	560	o.r.	1450	o.r.	1630	2847	225





Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NA1 356-4AA84-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NA1 357-4AA84-0AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NA1 404-4AA84-0AA0	3600	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8	
1NA1 404-4AA84-0CA0	3700	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8	
1NA1 406-4AA84-0AA0	3800	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8	
1NA1 406-4AA84-0CA0	3900	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8	
1NA1 408-4AA84-0AA0	4000	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8	
1NA1 408-4AA84-0CA0	4200	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8	
1NA1 452-4AA84-0AA0	4600	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8	
1NA1 452-4AA84-0CA0	4800	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8	
1NA1 454-4AA84-0AA0	4900	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8	
1NA1 454-4AA84-0CA0	5000	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8	
1NA1 456-4AA84-0AA0	5200	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8	
1NA1 456-4AA84-0CA0	5400	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8	
1NA1 458-4AA84-0AA0	5500	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8	
1NA1 458-4AA84-0CA0	5700	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8	
1NA1 504-4AA84-0CA0	6700	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16	
1NA1 504-4AA84-0AA0	6500	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16	
1NA1 506-4AA84-0CA0	7100	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16	
1NA1 506-4AA84-0AA0	6800	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16	
1NA1 508-4AA84-0AA0	7300	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16	
1NA1 508-4AA84-0CA0	7500	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16	

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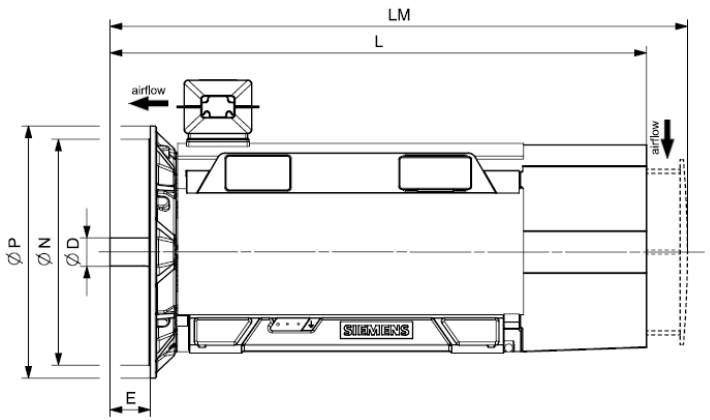

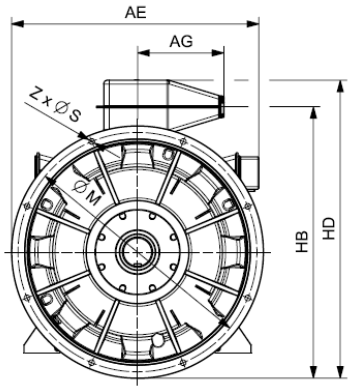

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 562-4AA84-0CA0	8500	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 562-4AA84-0AA0	8200	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 564-4AA84-0AA0	8600	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 564-4AA84-0CA0	9000	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 566-4AA84-0AA0	9100	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 566-4AA84-0CA0	9400	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 568-4AA84-0AA0	9500	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 568-4AA84-0CA0	9900	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 404-6AA84-0AA0	3600	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 404-6AA84-0CA0	3700	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 406-6AA84-0AA0	3800	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 406-6AA84-0CA0	3900	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 408-6AA84-0CA0	4200	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 408-6AA84-0AA0	4000	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 454-6AA84-0AA0	4800	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 454-6AA84-0CA0	5000	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 456-6AA84-0AA0	5100	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 456-6AA84-0CA0	5300	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 458-6AA84-0AA0	5600	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 458-6AA84-0CA0	5800	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 502-6AA84-0CA0	6300	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 502-6AA84-0AA0	6100	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16

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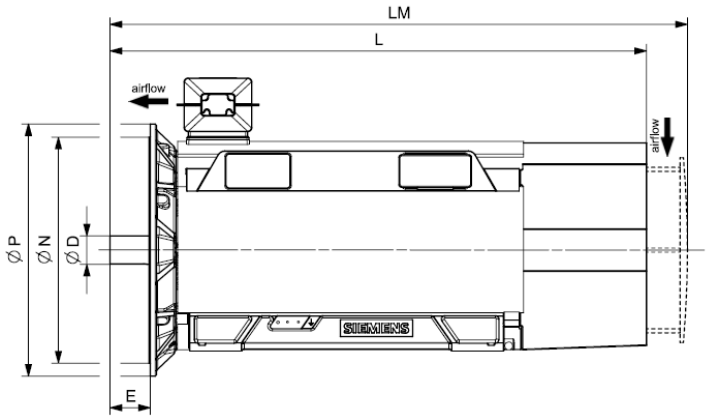

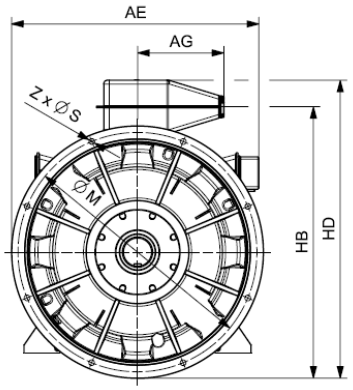

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-6AA84-0AA0	6500	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 504-6AA84-0CA0	6700	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 506-6AA84-0AA0	6900	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 506-6AA84-0CA0	7100	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 508-6AA84-0AA0	7400	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 508-6AA84-0CA0	7700	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 564-6AA84-0CA0	9300	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 566-6AA84-0CA0	9900	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 568-6AA84-0CA0	10400	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 404-8AA84-0AA0	3500	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 404-8AA84-0CA0	3600	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 406-8AA84-0AA0	3700	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 406-8AA84-0CA0	3800	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 408-8AA84-0AA0	4000	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 408-8AA84-0CA0	4100	1210	710	110	1193	1373	2197	2347	940	880	1000	22	8
1NA1 454-8AA84-0AA0	4700	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 454-8AA84-0CA0	4900	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 456-8AA84-0AA0	5100	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 456-8AA84-0CA0	5300	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 458-8AA84-0AA0	5600	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 458-8AA84-0CA0	5800	1285	710	120	1342	1522	2457	2657	1080	1000	1150	26	8
1NA1 502-8AA84-0AA0	6100	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16

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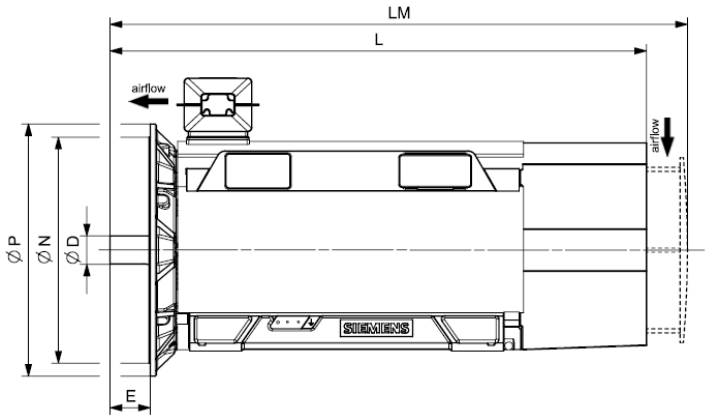

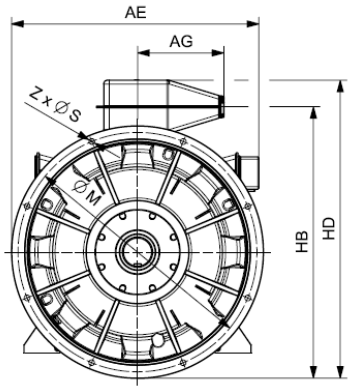

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 502-8AA84-0CA0	6300	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 504-8AA84-0AA0	6400	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 504-8AA84-0CA0	6700	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 506-8AA84-0AA0	6900	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 506-8AA84-0CA0	7100	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 508-8AA84-0AA0	7300	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 508-8AA84-0CA0	7600	1335	710	140	1448	1628	2672	2872	1180	1120	1250	26	16
1NA1 564-8AA84-0CA0	9200	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 566-8AA84-0CA0	9800	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16
1NA1 568-8AA84-0CA0	10300	1410	710	160	1590	1770	2847	3087	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3000 rpm at 50 Hz																		
660	**1NA1 402-2WA60-0A.0**	2979	76	96.1	96.5	96.7	96.4	0.87	0.87	0.86	0.82	2116	2.55	0.80	5.5	9	65	1.00
670	**1NA1 402-2WA60-0C.0**	2978	75	96.1	96.5	96.7	96.4	0.89	0.89	0.87	0.83	2148	2.75	1.00	6.0	12	150	1.00
750	**1NA1 404-2WA60-0A.0**	2978	85	96.2	96.6	96.8	96.7	0.87	0.88	0.87	0.83	2405	2.50	0.80	5.3	10	65	1.00
750	**1NA1 404-2WA60-0C.0**	2978	84	96.2	96.6	96.8	96.6	0.89	0.89	0.88	0.84	2405	2.70	0.95	6.0	13	150	1.00
850	**1NA1 406-2WA60-0A.0**	2980	96	96.4	96.7	97.0	96.8	0.88	0.88	0.88	0.83	2724	2.75	0.95	5.9	11	85	1.00
850	**1NA1 406-2WA60-0C.0**	2980	95	96.4	96.7	97.0	96.7	0.89	0.89	0.88	0.83	2724	2.70	0.90	6.0	14	145	1.00
870	**1NA1 408-2WA60-0A.0**	2981	96	96.5	96.8	97.0	96.7	0.90	0.90	0.88	0.84	2787	3.05	0.95	6.4	12	95	1.00
870	**1NA1 408-2WA60-0C.0**	2981	96	96.5	96.8	97.0	96.7	0.91	0.90	0.89	0.83	2787	2.95	0.90	6.5	15	150	1.00
1120	**1NA1 454-2WA60-0A.0**	2984	124	96.8	97.2	97.4	97.2	0.88	0.89	0.88	0.84	3584	2.35	1.00	5.7	14	90	0.95
1120	**1NA1 454-2WA60-0C.0**	2980	124	96.6	97.0	97.2	97.0	0.89	0.90	0.89	0.85	3589	2.45	0.85	5.7	18	140	1.00
1250	**1NA1 456-2WA60-0A.0**	2984	138	96.8	97.3	97.5	97.4	0.88	0.89	0.89	0.86	4000	2.35	1.05	5.7	16	80	1.00
1250	**1NA1 456-2WA60-0C.0**	2980	138	96.6	97.1	97.3	97.2	0.90	0.90	0.90	0.86	4006	2.40	0.85	5.7	20	135	1.00
1400	**1NA1 458-2WA60-0A.0**	2986	154	97.0	97.4	97.6	97.4	0.90	0.90	0.89	0.85	4477	2.60	1.05	6.2	17	90	1.00
1380	**1NA1 458-2WA60-0C.0**	2982	150	96.8	97.2	97.4	97.2	0.91	0.91	0.90	0.86	4419	2.65	0.85	6.2	22	150	1.00
1700	**1NA1 504-2WA60-0AJ0**	2982	192	96.9	97.3	97.5	97.4	0.86	0.88	0.88	0.85	5444	2.25	0.70	4.8	23	25	0.75
1750	**1NA1 504-2WA60-0C.0**	2983	192	96.9	97.2	97.4	97.3	0.88	0.90	0.90	0.87	5602	2.40	0.60	5.2	30	100	0.85
1910	**1NA1 506-2WA60-0AJ0**	2981	215	97.0	97.4	97.6	97.6	0.87	0.88	0.89	0.87	6118	2.25	0.70	4.8	26	25	0.75
1960	**1NA1 506-2WA60-0C.0**	2982	215	97.0	97.4	97.6	97.5	0.89	0.90	0.90	0.88	6277	2.40	0.60	5.1	33	105	0.85
2300	**1NA1 508-2WA60-0AJ0**	2984	255	97.3	97.6	97.8	97.7	0.88	0.89	0.89	0.85	7360	2.55	0.85	5.5	28	10	0.80
2350	**1NA1 508-2WA60-0C.0**	2985	255	97.3	97.6	97.7	97.6	0.90	0.90	0.90	0.86	7518	2.70	0.70	5.9	36	115	0.95
2460	**1NA1 566-2WA60-0C.0**	2985	265	97.2	97.5	97.6	97.4	0.89	0.91	0.91	0.90	7870	2.15	0.50	4.8	55	200	0.65
2820	**1NA1 568-2WA60-0C.0**	2986	305	97.3	97.7	97.8	97.6	0.89	0.91	0.92	0.90	9018	2.15	0.50	4.8	60	200	0.65
4-pole: n_{sync} = 1500 rpm at 50 Hz																		
820	**1NA1 404-4WA60-0A.0**	1485	95	95.6	96.2	96.7	96.8	0.85	0.86	0.85	0.81	5273	2.35	0.85	5.0	12	400	1.00
810	**1NA1 404-4WA60-0C.0**	1485	95	95.6	96.3	96.8	96.9	0.84	0.85	0.85	0.81	5209	2.10	0.60	4.3	15	350	1.00
900	**1NA1 406-4WA60-0A.0**	1486	104	95.8	96.4	96.8	96.8	0.86	0.86	0.86	0.82	5784	2.40	0.85	5.2	13	400	1.00
900	**1NA1 406-4WA60-0C.0**	1486	104	95.7	96.4	96.9	97.0	0.85	0.86	0.86	0.82	5784	2.15	0.60	4.4	17	350	1.00
1050	**1NA1 408-4WA60-0A.0**	1488	120	96.0	96.5	96.8	96.8	0.87	0.87	0.85	0.80	6738	2.70	1.00	5.8	15	350	1.00
1050	**1NA1 408-4WA60-0C.0**	1487	122	96.0	96.5	96.9	97.0	0.86	0.86	0.85	0.81	6743	2.35	0.70	4.9	19	450	1.00
1150	**1NA1 454-4WA60-0A.0**	1488	138	96.0	96.6	97.0	96.9	0.82	0.83	0.82	0.77	7380	2.00	0.95	4.5	22	400	0.90
1180	**1NA1 454-4WA60-0C.0**	1488	138	96.2	96.7	97.1	97.0	0.84	0.85	0.84	0.79	7573	2.10	0.60	4.8	28	650	0.95
1320	**1NA1 456-4WA60-0A.0**	1488	156	96.2	96.8	97.2	97.1	0.82	0.84	0.83	0.78	8471	2.00	1.00	4.6	25	350	0.90
1400	**1NA1 456-4WA60-0C.0**	1489	164	96.3	96.9	97.2	97.2	0.84	0.85	0.84	0.80	8979	2.10	0.60	4.8	32	650	0.95
1550	**1NA1 458-4WA60-0A.0**	1488	186	96.4	97.0	97.3	97.2	0.82	0.83	0.82	0.77	9947	2.05	1.00	4.7	28	200	0.90
1600	**1NA1 458-4WA60-0C.0**	1489	186	96.6	97.1	97.4	97.3	0.84	0.85	0.84	0.79	10261	2.15	0.60	5.0	35	700	0.95
1600	**1NA1 504-4WA60-0A.0**	1488	180	96.4	96.8	97.1	97.0	0.87	0.88	0.87	0.82	10268	2.55	0.95	6.0	33	450	1.00

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SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
1600	**1NA1 504-4WA60-0C.0**	1490	184	96.5	97.0	97.2	97.1	0.84	0.86	0.86	0.81	10254	2.05	0.60	4.9	42	800	0.90
1850	**1NA1 506-4WA60-0C.0**	1490	215	96.7	97.1	97.4	97.3	0.84	0.86	0.86	0.82	11857	2.00	0.60	4.9	48	800	0.90
1840	**1NA1 506-4WA60-0A.0**	1488	205	96.6	97.0	97.3	97.2	0.87	0.88	0.87	0.82	11808	2.50	0.85	6.0	38	400	1.00
2160	**1NA1 508-4WA60-0C.0**	1491	250	96.9	97.3	97.5	97.4	0.85	0.86	0.86	0.81	13834	2.10	0.60	5.1	55	850	0.90
2130	**1NA1 508-4WA60-0A.0**	1489	240	96.8	97.2	97.4	97.3	0.87	0.88	0.87	0.82	13660	2.65	0.90	6.4	43	300	1.00
2370	**1NA1 562-4WA60-0A.0**	1491	270	96.9	97.4	97.6	97.5	0.84	0.87	0.86	0.82	15179	2.05	0.70	5.3	54	750	1.00
2350	**1NA1 562-4WA60-0C.0**	1490	275	96.9	97.4	97.7	97.6	0.82	0.85	0.85	0.82	15061	1.80	0.55	4.5	72	1000	0.80
2700	**1NA1 564-4WA60-0A.0**	1491	305	97.1	97.5	97.7	97.6	0.84	0.87	0.86	0.82	17292	2.10	0.70	5.3	60	600	1.00
2650	**1NA1 564-4WA60-0C.0**	1490	305	97.1	97.6	97.8	97.8	0.82	0.85	0.86	0.82	16984	1.80	0.50	4.6	79	1100	0.75
2950	**1NA1 566-4WA60-0A.0**	1491	330	97.2	97.6	97.8	97.7	0.86	0.88	0.87	0.84	18894	2.15	0.75	5.5	67	550	1.00
2900	**1NA1 566-4WA60-0C.0**	1491	330	97.2	97.7	97.9	97.9	0.84	0.87	0.87	0.83	18573	1.90	0.55	4.8	88	1100	0.85
3320	**1NA1 568-4WA60-0C.0**	1492	375	97.4	97.8	98.0	97.9	0.84	0.87	0.86	0.83	21249	2.00	0.60	5.1	97	1100	0.90
3350	**1NA1 568-4WA60-0A.0**	1492	375	97.4	97.7	97.9	97.8	0.86	0.88	0.87	0.82	21441	2.35	0.80	6.0	73	450	1.00
6-pole: n_{sync} = 1000 rpm at 50 Hz																		
770	**1NA1 404-6WA60-0AG0**	991	94	95.2	96.0	96.6	96.6	0.81	0.82	0.81	0.75	7420	2.20	1.10	5.2	21	950	1.00
770	**1NA1 404-6WA60-0CG0**	991	94	95.2	95.9	96.5	96.5	0.81	0.82	0.81	0.75	7420	2.00	0.70	4.2	27	700	1.00
860	**1NA1 406-6WA60-0AG0**	991	104	95.3	96.0	96.6	96.7	0.82	0.83	0.82	0.76	8287	2.25	1.10	5.2	24	1050	1.00
860	**1NA1 406-6WA60-0CG0**	991	104	95.3	96.0	96.6	96.5	0.82	0.83	0.82	0.76	8287	2.00	0.70	4.3	31	700	1.00
930	**1NA1 408-6WA60-0AG0**	993	114	95.7	96.2	96.6	96.4	0.83	0.82	0.79	0.70	8943	2.75	1.50	6.4	27	1200	1.00
930	**1NA1 408-6WA60-0CG0**	993	114	95.7	96.2	96.5	96.3	0.83	0.82	0.79	0.70	8943	2.45	0.90	5.1	34	900	1.00
1000	**1NA1 454-6WA60-0A.0**	990	126	95.2	96.1	96.6	96.7	0.78	0.80	0.80	0.76	9646	1.75	0.90	4.2	32	2150	0.85
1000	**1NA1 454-6WA60-0C.0**	990	118	95.5	96.3	96.6	96.7	0.82	0.84	0.83	0.78	9646	1.90	0.60	4.1	41	1550	0.90
1100	**1NA1 456-6WA60-0A.0**	990	136	95.4	96.2	96.7	96.8	0.78	0.81	0.81	0.77	10610	1.75	0.90	4.2	37	2300	0.85
1140	**1NA1 456-6WA60-0C.0**	990	136	95.6	96.3	96.7	96.8	0.82	0.84	0.84	0.80	10996	1.85	0.60	4.0	47	1650	0.85
1250	**1NA1 458-6WA60-0A.0**	991	154	95.6	96.4	96.8	96.9	0.79	0.81	0.81	0.78	12045	1.80	0.85	4.4	44	1900	0.85
1290	**1NA1 458-6WA60-0C.0**	991	154	95.8	96.5	96.8	96.9	0.83	0.84	0.84	0.80	12430	1.90	0.60	4.1	56	1850	0.85
1450	**1NA1 502-6WA60-0A.0**	992	174	95.9	96.6	97.2	97.4	0.82	0.83	0.83	0.79	13958	2.15	0.90	5.9	52	1750	1.00
1500	**1NA1 502-6WA60-0C.0**	993	174	96.1	96.7	97.2	97.4	0.85	0.86	0.85	0.81	14425	1.90	0.55	4.7	68	1600	0.80
1600	**1NA1 504-6WA60-0A.0**	991	190	95.8	96.6	97.2	97.5	0.83	0.84	0.85	0.82	15418	2.00	0.90	5.5	59	1450	1.00
1640	**1NA1 504-6WA60-0C.0**	993	190	96.0	96.8	97.3	97.5	0.85	0.86	0.86	0.83	15771	1.80	0.55	4.4	76	1750	0.75
1850	**1NA1 506-6WA60-0A.0**	992	220	96.2	96.9	97.4	97.6	0.83	0.84	0.84	0.80	17809	2.15	0.90	6.0	66	1200	1.00
1900	**1NA1 506-6WA60-0C.0**	993	220	96.4	97.0	97.5	97.6	0.85	0.86	0.86	0.82	18272	1.95	0.55	4.8	86	2450	0.80
2120	**1NA1 508-6WA60-0C.0**	993	245	96.4	97.1	97.5	97.7	0.85	0.86	0.87	0.84	20387	1.85	0.50	4.5	97	2200	0.70
2050	**1NA1 508-6WA60-0A.0**	991	240	96.2	96.9	97.5	97.7	0.83	0.85	0.85	0.83	19754	2.05	0.85	5.7	75	600	1.00
2300	**1NA1 564-6WA60-0C.0**	994	260	97.0	97.4	97.7	97.6	0.86	0.87	0.87	0.83	22096	2.20	0.45	4.6	137	3150	0.80
2620	**1NA1 566-6WA60-0C.0**	993	300	96.9	97.4	97.7	97.8	0.86	0.87	0.88	0.85	25196	2.10	0.45	4.3	152	2950	0.75
2900	**1NA1 568-6WA60-0C.0**	994	325	97.1	97.5	97.8	97.8	0.86	0.88	0.87	0.84	27860	2.25	0.50	4.7	167	2850	0.85

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SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
8-pole: n_{sync} = 750 rpm at 50 Hz																		
570	**1NA1 404-8WA60-0AG0**	739	72	94.1	95.2	95.9	96.2	0.80	0.80	0.79	0.72	7365	1.85	0.80	3.8	22	1500	1.00
580	**1NA1 404-8WA60-0CG0**	741	73	94.2	95.3	95.9	96.0	0.79	0.80	0.78	0.70	7474	1.70	0.65	3.3	27	1500	0.85
620	**1NA1 406-8WA60-0AG0**	739	77	94.1	95.3	96.0	96.2	0.80	0.81	0.80	0.73	8012	1.85	0.80	3.8	25	1550	1.00
630	**1NA1 406-8WA60-0CG0**	741	78	94.3	95.4	96.0	96.1	0.79	0.81	0.79	0.72	8119	1.65	0.65	3.3	31	1650	0.85
710	**1NA1 408-8WA60-0AG0**	739	88	94.4	95.4	96.1	96.3	0.80	0.81	0.80	0.73	9175	1.85	0.80	3.8	27	1300	1.00
750	**1NA1 408-8WA60-0CG0**	742	94	95.2	95.9	96.2	96.1	0.80	0.80	0.76	0.66	9652	1.95	0.75	3.8	34	2050	1.00
800	**1NA1 454-8WA60-0A.0**	741	104	94.8	95.8	96.4	96.5	0.76	0.77	0.76	0.71	10310	1.80	0.85	3.8	32	3250	1.00
800	**1NA1 454-8WA60-0C.0**	742	100	95.0	95.9	96.3	96.3	0.80	0.80	0.78	0.72	10296	1.85	0.65	3.5	41	2600	0.90
900	**1NA1 456-8WA60-0A.0**	741	116	95.0	95.9	96.5	96.6	0.77	0.78	0.77	0.72	11598	1.85	0.90	4.0	37	3050	1.00
900	**1NA1 456-8WA60-0C.0**	742	112	95.2	96.0	96.4	96.4	0.80	0.81	0.79	0.73	11583	1.85	0.65	3.6	47	2700	0.90
1000	**1NA1 458-8WA60-0A.0**	741	128	94.7	95.8	96.4	96.6	0.78	0.79	0.79	0.74	12887	1.75	0.85	3.8	44	2450	0.95
1050	**1NA1 458-8WA60-0C.0**	741	130	94.7	95.8	96.4	96.5	0.79	0.81	0.80	0.76	13531	1.70	0.60	3.3	56	1850	0.80
1150	**1NA1 504-8WA60-0A.0**	742	144	94.7	95.8	96.3	96.5	0.78	0.80	0.79	0.74	14800	1.75	0.65	4.1	59	3550	0.85
1220	**1NA1 504-8WA60-0C.0**	743	146	95.0	95.9	96.2	96.3	0.84	0.84	0.83	0.77	15680	1.85	0.60	4.1	76	3000	0.85
1350	**1NA1 506-8WA60-0A.0**	742	170	95.1	96.0	96.4	96.6	0.79	0.80	0.79	0.74	17374	1.85	0.70	4.4	66	3350	0.90
1400	**1NA1 506-8WA60-0C.0**	743	164	95.4	96.1	96.4	96.4	0.84	0.85	0.83	0.76	17993	2.00	0.65	4.4	85	3100	0.95
1470	**1NA1 508-8WA60-0A.0**	742	182	95.0	96.0	96.5	96.7	0.79	0.81	0.81	0.76	18918	1.75	0.65	4.2	75	2800	0.85
1550	**1NA1 508-8WA60-0C.0**	743	182	95.3	96.1	96.4	96.5	0.84	0.85	0.84	0.78	19921	1.90	0.60	4.2	96	2950	0.85
1800	**1NA1 564-8WA60-0C.0**	742	215	95.9	96.7	97.2	97.4	0.81	0.84	0.85	0.82	23165	1.70	0.45	3.4	136	3950	0.65
2000	**1NA1 566-8WA60-0C.0**	742	235	95.9	96.7	97.3	97.5	0.81	0.84	0.85	0.83	25739	1.70	0.40	3.3	152	3600	0.65
2200	**1NA1 568-8WA60-0C.0**	743	255	96.2	96.9	97.3	97.4	0.83	0.85	0.85	0.81	28275	1.90	0.50	3.8	167	3850	0.75

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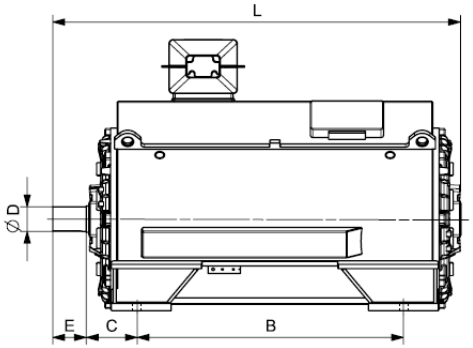

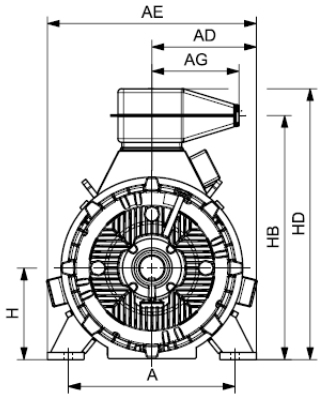

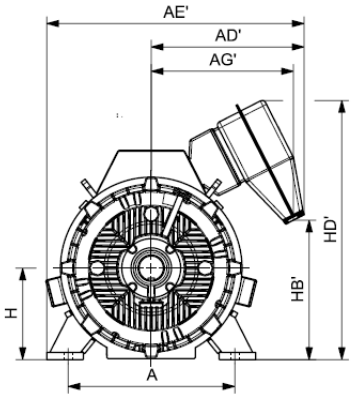

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2WA60-0A.0	2600	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 402-2WA60-0C.0	2700	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 404-2WA60-0A.0	2800	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 404-2WA60-0C.0	2900	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 406-2WA60-0A.0	3000	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 406-2WA60-0C.0	3100	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 408-2WA60-0A.0	3100	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 408-2WA60-0C.0	3200	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 454-2WA60-0A.0	3700	850	489	714	1004	1229	489	665	1250	254	95	130	450	o.r.	1202	o.r.	1333	1900	o.r.
1NA1 454-2WA60-0C.0	3900	850	489	714	1004	1229	489	665	1250	254	95	130	450	o.r.	1202	o.r.	1333	1900	o.r.
1NA1 456-2WA60-0A.0	3900	850	489	714	1004	1229	489	665	1250	254	95	130	450	o.r.	1202	o.r.	1333	1900	o.r.
1NA1 456-2WA60-0C.0	4100	850	489	714	1004	1229	489	665	1250	254	95	130	450	o.r.	1202	o.r.	1333	1900	o.r.
1NA1 458-2WA60-0A.0	4200	850	489	714	1004	1229	489	665	1250	254	95	130	450	o.r.	1202	o.r.	1333	1900	o.r.
1NA1 458-2WA60-0C.0	4300	850	489	714	1004	1229	489	665	1250	254	95	130	450	o.r.	1202	o.r.	1333	1900	o.r.
1NA1 504-2WA60-0AJ0	5000	950	489	744	1054	1309	489	695	1320	475	110	165	500	o.r.	1326	o.r.	1457	2290	o.r.
1NA1 504-2WA60-0C.0	5200	950	489	744	1054	1309	489	695	1320	280	110	165	500	o.r.	1326	o.r.	1457	2049	o.r.
1NA1 506-2WA60-0AJ0	5400	950	489	744	1054	1309	489	695	1320	475	110	165	500	o.r.	1326	o.r.	1457	2290	o.r.
1NA1 506-2WA60-0C.0	5600	950	489	744	1054	1309	489	695	1320	280	110	165	500	o.r.	1326	o.r.	1457	2049	o.r.
1NA1 508-2WA60-0AJ0	5700	950	489	744	1054	1309	489	695	1320	475	110	165	500	o.r.	1326	o.r.	1457	2290	o.r.
1NA1 508-2WA60-0C.0	5900	950	489	744	1054	1309	489	695	1320	280	110	165	500	o.r.	1326	o.r.	1457	2049	o.r.
1NA1 566-2WA60-0C.0	7600	1060	489	777	1124	1412	489	728	1400	290	120	165	560	o.r.	1462	o.r.	1593	2193	o.r.
1NA1 568-2WA60-0C.0	8100	1060	489	777	1124	1412	489	728	1400	290	120	165	560	o.r.	1462	o.r.	1593	2193	o.r.
4-pole																			

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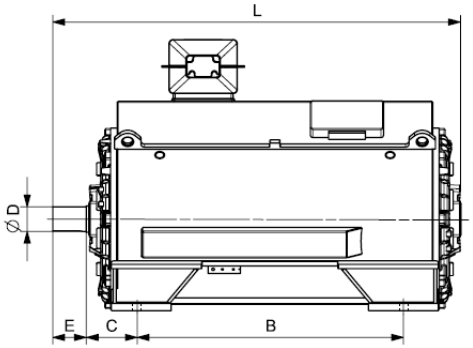

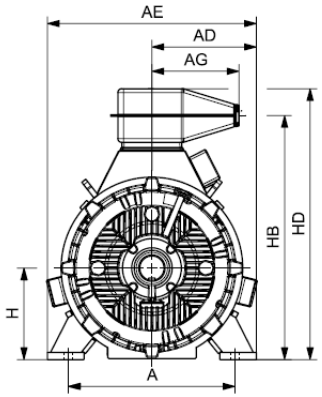

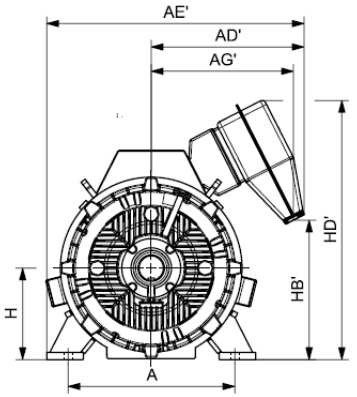

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 404-4WA60-0A.0	2800	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 404-4WA60-0C.0	3000	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-4WA60-0A.0	3000	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-4WA60-0C.0	3200	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-4WA60-0A.0	3200	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-4WA60-0C.0	3400	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 454-4WA60-0A.0	3800	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 454-4WA60-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-4WA60-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-4WA60-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-4WA60-0A.0	4400	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-4WA60-0C.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 504-4WA60-0A.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 504-4WA60-0C.0	5300	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-4WA60-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-4WA60-0A.0	5600	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-4WA60-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-4WA60-0A.0	6100	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 562-4WA60-0A.0	6500	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 562-4WA60-0C.0	6800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 564-4WA60-0A.0	7000	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 564-4WA60-0C.0	7300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 566-4WA60-0A.0	7400	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 566-4WA60-0C.0	7800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.

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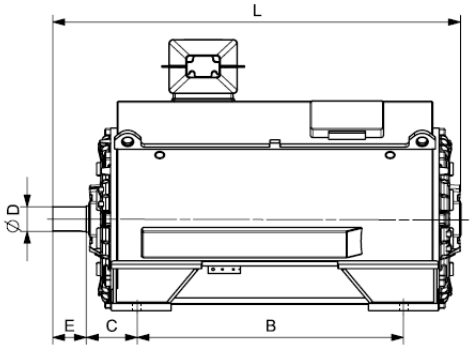

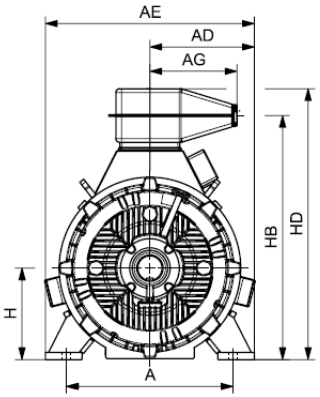

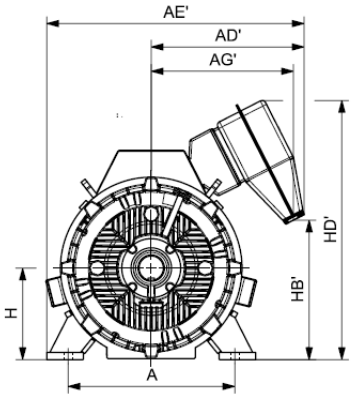

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 568-4WA60-0C.0	8300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 568-4WA60-0A.0	7900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
6-pole																			
1NA1 404-6WA60-0AG0	3000	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 404-6WA60-0CG0	3100	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-6WA60-0AG0	3200	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-6WA60-0CG0	3400	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-6WA60-0AG0	3400	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-6WA60-0CG0	3600	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 454-6WA60-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 454-6WA60-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-6WA60-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-6WA60-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-6WA60-0A.0	4500	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-6WA60-0C.0	4800	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 502-6WA60-0A.0	4800	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 502-6WA60-0C.0	5000	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 504-6WA60-0A.0	5200	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 504-6WA60-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-6WA60-0A.0	5600	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-6WA60-0C.0	5900	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-6WA60-0C.0	6400	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-6WA60-0A.0	6100	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 564-6WA60-0C.0	7700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.

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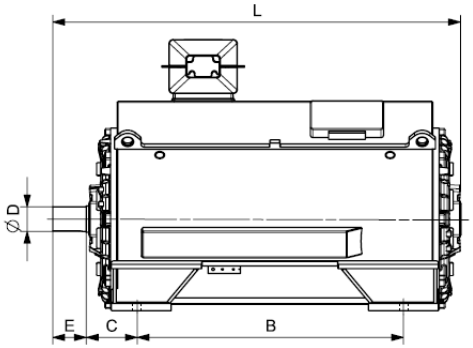

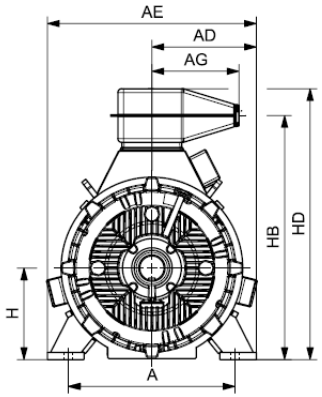

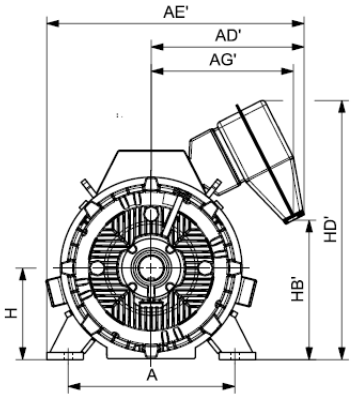

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 566-6WA60-0C.0	8200	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 568-6WA60-0C.0	8800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
8-pole																			
1NA1 404-8WA60-0AG0	2900	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 404-8WA60-0CG0	3100	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-8WA60-0AG0	3200	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-8WA60-0CG0	3300	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-8WA60-0AG0	3400	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-8WA60-0CG0	3600	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 454-8WA60-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 454-8WA60-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-8WA60-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-8WA60-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-8WA60-0A.0	4500	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-8WA60-0C.0	4700	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 504-8WA60-0A.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 504-8WA60-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-8WA60-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-8WA60-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-8WA60-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-8WA60-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 564-8WA60-0C.0	7600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 566-8WA60-0C.0	8200	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 568-8WA60-0C.0	8600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.

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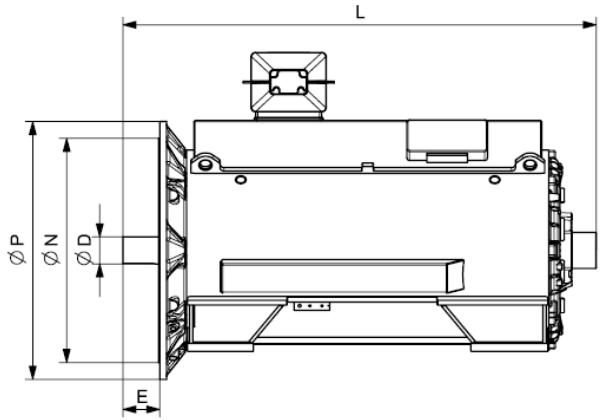

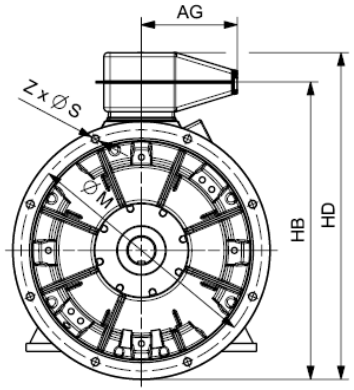

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 404-4WA68-0AG0	2900	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 404-4WA68-0CG0	3000	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-4WA68-0AG0	3100	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-4WA68-0CG0	3200	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-4WA68-0AG0	3300	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-4WA68-0CG0	3500	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 454-4WA68-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WA68-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WA68-0AG0	4300	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WA68-0CG0	4500	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WA68-0AG0	4600	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WA68-0CG0	4800	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WA68-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WA68-0CG0	5500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WA68-0CG0	5900	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WA68-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WA68-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WA68-0AG0	6300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 562-4WA68-0AG0	6800	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 562-4WA68-0CG0	7100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WA68-0AG0	7300	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WA68-0CG0	7600	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16

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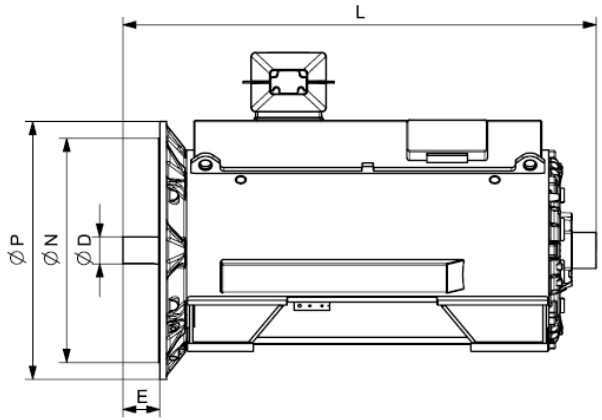

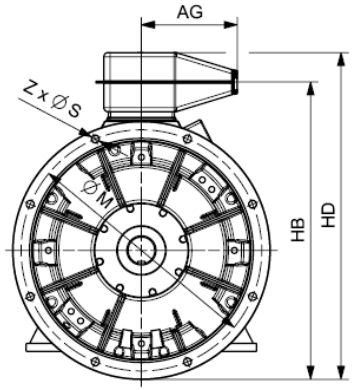

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 566-4WA68-0AG0	7700	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WA68-0CG0	8100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WA68-0CG0	8600	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WA68-0AG0	8200	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
6-pole													
1NA1 404-6WA68-0AG0	3000	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 404-6WA68-0CG0	3200	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-6WA68-0AG0	3300	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-6WA68-0CG0	3400	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-6WA68-0AG0	3500	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-6WA68-0CG0	3600	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 454-6WA68-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-6WA68-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WA68-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WA68-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WA68-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WA68-0CG0	4900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WA68-0AG0	5000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WA68-0CG0	5200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WA68-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WA68-0CG0	5600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WA68-0AG0	5800	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WA68-0CG0	6100	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16

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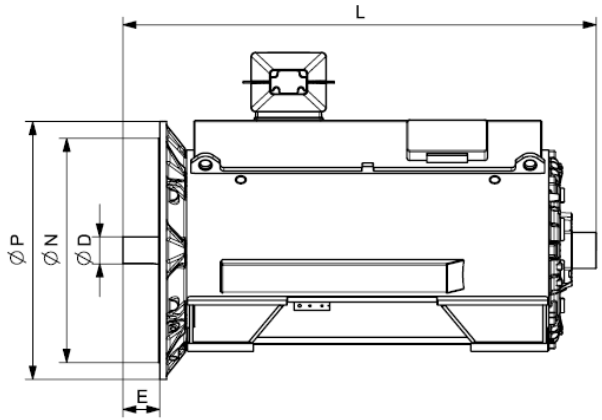

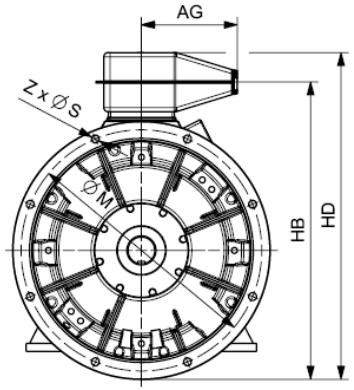

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 508-6WA68-0CG0	6600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WA68-0AG0	6300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WA68-0CG0	8000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WA68-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WA68-0CG0	9100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 404-8WA68-0AG0	3000	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 404-8WA68-0CG0	3100	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-8WA68-0AG0	3300	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-8WA68-0CG0	3400	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-8WA68-0AG0	3500	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-8WA68-0CG0	3600	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 454-8WA68-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WA68-0CG0	4000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WA68-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WA68-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WA68-0AG0	4600	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WA68-0CG0	4900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 504-8WA68-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WA68-0CG0	5500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WA68-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WA68-0CG0	6000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WA68-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16

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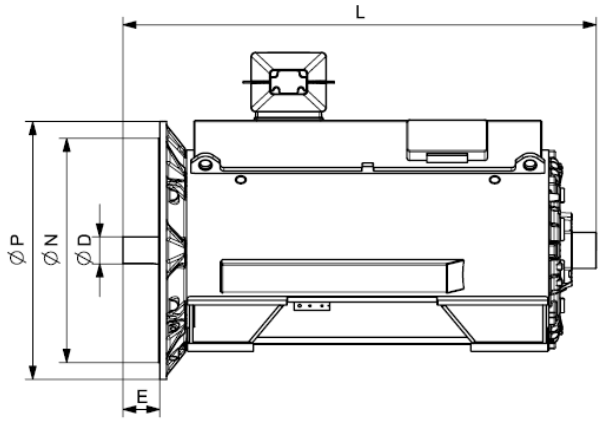

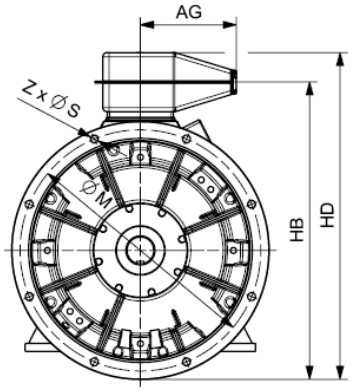

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 508-8WA68-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-8WA68-0CG0	7900	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WA68-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WA68-0CG0	8900	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3600 rpm at 60 Hz																		
800	**1NA1 402-2WA10-0A.0**	3579	83	96.2	96.5	96.5	96.1	0.87	0.87	0.86	0.82	2135	2.45	0.80	5.4	9	30	1.00
800	**1NA1 402-2WA10-0C.0**	3576	83	96.1	96.4	96.5	96.1	0.87	0.87	0.86	0.82	2136	2.35	0.65	5.2	11	60	1.00
850	**1NA1 404-2WA10-0A.0**	3579	87	96.3	96.5	96.6	96.2	0.88	0.89	0.88	0.84	2268	2.60	0.80	5.7	10	35	1.00
820	**1NA1 404-2WA10-0C.0**	3577	84	96.2	96.5	96.6	96.1	0.89	0.89	0.88	0.83	2189	2.50	0.65	5.6	12	75	1.00
950	**1NA1 406-2WA10-0A.0**	3579	97	96.4	96.7	96.8	96.4	0.89	0.89	0.88	0.84	2535	2.65	0.90	5.8	11	40	1.00
930	**1NA1 406-2WA10-0C.0**	3577	95	96.4	96.7	96.8	96.4	0.89	0.89	0.89	0.84	2483	2.65	0.75	5.9	14	90	1.00
1010	**1NA1 408-2WA10-0A.0**	3582	102	96.6	96.8	96.8	96.4	0.90	0.89	0.88	0.83	2693	3.00	1.05	6.6	12	50	1.00
1000	**1NA1 408-2WA10-0C.0**	3580	100	96.6	96.8	96.8	96.4	0.90	0.90	0.88	0.83	2667	2.95	0.90	6.7	15	105	1.00
1250	**1NA1 454-2WA10-0C.0**	3576	126	96.4	96.9	97.0	96.7	0.87	0.89	0.89	0.87	3338	2.05	0.70	4.8	19	80	0.85
1380	**1NA1 456-2WA10-0C.0**	3578	138	96.6	97.0	97.2	96.9	0.89	0.90	0.90	0.87	3683	2.20	0.70	5.2	21	75	1.00
1600	**1NA1 458-2WA10-0C.0**	3580	158	96.9	97.3	97.3	97.0	0.90	0.91	0.90	0.87	4268	2.40	0.80	5.7	22	75	1.00
1950	**1NA1 504-2WA10-0CJ0**	3583	198	97.0	97.2	97.3	96.9	0.88	0.89	0.89	0.86	5197	2.45	0.50	5.2	29	75	0.75
2170	**1NA1 506-2WA10-0CJ0**	3582	215	97.1	97.3	97.5	97.2	0.89	0.90	0.91	0.88	5785	2.30	0.50	5.0	33	85	0.70
2500	**1NA1 508-2WA10-0CJ0**	3584	250	97.3	97.5	97.6	97.3	0.89	0.90	0.91	0.88	6661	2.55	0.60	5.5	36	85	0.80
2720	**1NA1 566-2WA10-0CJ0**	3587	270	97.3	97.4	97.4	96.9	0.90	0.91	0.91	0.89	7241	2.50	0.60	5.7	55	150	0.80
3100	**1NA1 568-2WA10-0CJ0**	3585	305	97.3	97.5	97.6	97.2	0.89	0.91	0.92	0.91	8257	2.10	0.45	4.7	59	150	0.55
4-pole: n_{sync} = 1800 rpm at 60 Hz																		
950	**1NA1 404-4WA10-0A.0**	1786	102	95.9	96.4	96.7	96.6	0.85	0.85	0.85	0.81	5079	2.35	0.75	5.1	12	250	1.00
950	**1NA1 404-4WA10-0C.0**	1785	102	95.9	96.5	96.8	96.8	0.83	0.85	0.84	0.81	5082	2.05	0.55	4.3	15	250	0.95
1050	**1NA1 406-4WA10-0A.0**	1786	110	96.1	96.6	96.8	96.7	0.86	0.86	0.85	0.81	5614	2.45	0.80	5.4	13	200	1.00
1050	**1NA1 406-4WA10-0C.0**	1786	112	96.1	96.6	96.9	96.9	0.84	0.85	0.85	0.81	5614	2.15	0.55	4.5	17	250	0.95
1160	**1NA1 408-4WA10-0A.0**	1787	120	96.3	96.7	96.9	96.7	0.86	0.87	0.86	0.81	6199	2.60	0.85	5.8	15	250	1.00
1170	**1NA1 408-4WA10-0C.0**	1787	124	96.3	96.7	97.0	96.9	0.85	0.86	0.85	0.81	6252	2.30	0.60	4.8	19	300	1.00
1350	**1NA1 454-4WA10-0A.0**	1787	146	96.3	96.8	97.0	96.8	0.81	0.83	0.82	0.77	7214	1.95	0.95	4.5	22	200	0.80
1400	**1NA1 454-4WA10-0C.0**	1788	150	96.4	96.9	97.1	96.9	0.83	0.84	0.84	0.79	7477	2.00	0.55	4.7	28	450	0.85
1510	**1NA1 456-4WA10-0A.0**	1788	162	96.6	97.0	97.2	96.9	0.83	0.84	0.83	0.77	8065	2.10	1.05	4.8	25	200	0.90
1600	**1NA1 456-4WA10-0C.0**	1789	170	96.6	97.0	97.2	97.0	0.84	0.85	0.84	0.79	8540	2.15	0.60	5.0	32	500	0.90
1720	**1NA1 458-4WA10-0A.0**	1788	184	96.6	97.1	97.3	97.1	0.83	0.84	0.83	0.78	9186	2.00	1.00	4.6	28	135	0.80
1770	**1NA1 458-4WA10-0C.0**	1789	188	96.7	97.1	97.4	97.1	0.84	0.85	0.85	0.80	9448	2.10	0.60	4.9	35	500	0.85
1850	**1NA1 504-4WA10-0C.0**	1791	196	96.8	97.1	97.1	96.7	0.85	0.85	0.84	0.79	9864	2.25	0.60	5.5	42	550	0.95
1830	**1NA1 504-4WA10-0A.0**	1790	190	96.8	96.9	97.0	96.6	0.87	0.87	0.85	0.78	9763	2.85	0.90	6.9	33	300	1.00
2100	**1NA1 506-4WA10-0A.0**	1792	215	97.0	97.2	97.2	96.8	0.86	0.87	0.85	0.79	11191	2.50	0.70	6.2	48	650	1.00
2150	**1NA1 506-4WA10-0C.0**	1790	220	96.9	97.1	97.2	96.8	0.88	0.88	0.86	0.79	11470	3.10	1.10	7.6	38	200	1.00
2420	**1NA1 508-4WA10-0A.0**	1789	245	97.0	97.2	97.3	97.0	0.88	0.88	0.87	0.82	12917	2.70	0.85	6.6	43	150	1.00
2460	**1NA1 508-4WA10-0C.0**	1791	255	97.1	97.3	97.4	97.1	0.85	0.86	0.86	0.81	13116	2.10	0.55	5.3	55	600	0.85
2700	**1NA1 562-4WA10-0A.0**	1790	280	97.1	97.4	97.5	97.2	0.83	0.86	0.86	0.82	14404	2.00	0.65	5.3	54	450	0.95

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SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
2650	**1NA1 562-4WA10-0C.0**	1790	280	97.0	97.5	97.6	97.4	0.81	0.85	0.85	0.82	14137	1.80	0.50	4.6	72	750	0.75
2950	**1NA1 564-4WA10-0A.0**	1791	305	97.3	97.6	97.6	97.3	0.85	0.87	0.86	0.82	15729	2.20	0.70	5.8	60	450	1.00
2900	**1NA1 564-4WA10-0C.0**	1791	300	97.3	97.6	97.7	97.4	0.83	0.86	0.86	0.82	15462	1.90	0.55	5.0	79	800	0.80
3300	**1NA1 566-4WA10-0A.0**	1791	340	97.3	97.6	97.7	97.5	0.84	0.87	0.87	0.84	17595	2.10	0.65	5.5	67	350	1.00
3270	**1NA1 566-4WA10-0C.0**	1791	340	97.3	97.7	97.8	97.6	0.82	0.86	0.86	0.83	17435	1.80	0.50	4.7	88	800	0.75
3700	**1NA1 568-4WA10-0A.0**	1792	370	97.5	97.8	97.8	97.5	0.87	0.89	0.88	0.83	19717	2.35	0.80	6.1	73	300	1.00
3670	**1NA1 568-4WA10-0C.0**	1792	375	97.5	97.8	97.9	97.7	0.85	0.88	0.87	0.83	19557	2.05	0.60	5.2	97	800	0.85
6-pole: n_{sync} = 1200 rpm at 60 Hz																		
860	**1NA1 404-6WA10-0AG0**	1191	95	95.5	96.2	96.7	96.5	0.81	0.82	0.82	0.76	6895	2.20	1.10	5.2	21	600	1.00
860	**1NA1 404-6WA10-0CG0**	1191	94	95.5	96.1	96.6	96.4	0.82	0.83	0.82	0.76	6895	2.00	0.70	4.3	27	500	0.90
950	**1NA1 406-6WA10-0AG0**	1191	104	95.6	96.2	96.7	96.6	0.82	0.83	0.82	0.77	7617	2.20	1.10	5.2	24	650	1.00
950	**1NA1 406-6WA10-0CG0**	1191	104	95.6	96.2	96.6	96.5	0.82	0.83	0.82	0.77	7617	2.00	0.70	4.3	31	500	0.90
1050	**1NA1 408-6WA10-0AG0**	1192	114	95.8	96.4	96.7	96.6	0.83	0.84	0.82	0.75	8412	2.40	1.20	5.7	27	750	1.00
1050	**1NA1 408-6WA10-0CG0**	1192	114	95.8	96.3	96.7	96.4	0.83	0.84	0.82	0.75	8412	2.20	0.75	4.6	34	500	1.00
1120	**1NA1 454-6WA10-0A.0**	1190	128	95.7	96.4	96.7	96.6	0.77	0.80	0.79	0.75	8988	1.80	0.85	4.5	32	1450	0.85
1120	**1NA1 454-6WA10-0C.0**	1191	122	96.0	96.5	96.8	96.6	0.82	0.83	0.82	0.77	8980	1.95	0.55	4.3	41	1250	0.85
1290	**1NA1 456-6WA10-0A.0**	1190	146	95.8	96.5	96.8	96.7	0.78	0.80	0.81	0.77	10352	1.80	0.85	4.5	37	1200	0.85
1330	**1NA1 456-6WA10-0C.0**	1191	144	96.0	96.6	96.9	96.8	0.82	0.84	0.83	0.79	10664	1.90	0.55	4.1	47	1250	0.80
1470	**1NA1 458-6WA10-0A.0**	1191	164	96.0	96.7	96.9	96.8	0.79	0.81	0.81	0.78	11786	1.80	0.85	4.5	44	1100	0.80
1510	**1NA1 458-6WA10-0C.0**	1191	162	96.2	96.7	97.0	96.9	0.83	0.84	0.84	0.79	12107	1.95	0.55	4.2	56	1350	0.80
1650	**1NA1 502-6WA10-0A.0**	1191	180	96.2	96.8	97.3	97.5	0.81	0.83	0.84	0.81	13230	1.95	0.80	5.6	52	1200	1.00
1720	**1NA1 502-6WA10-0C.0**	1192	180	96.3	96.9	97.4	97.5	0.84	0.86	0.86	0.83	13779	1.80	0.50	4.4	68	1350	0.70
1850	**1NA1 504-6WA10-0A.0**	1192	198	96.4	97.0	97.4	97.5	0.83	0.84	0.84	0.81	14821	2.10	0.90	6.0	59	1050	1.00
1920	**1NA1 504-6WA10-0C.0**	1193	200	96.5	97.1	97.5	97.5	0.85	0.86	0.86	0.83	15369	1.90	0.55	4.7	76	1450	0.75
2050	**1NA1 506-6WA10-0A.0**	1192	215	96.5	97.1	97.5	97.6	0.84	0.85	0.85	0.82	16423	2.15	0.90	6.0	66	850	1.00
2100	**1NA1 506-6WA10-0C.0**	1193	215	96.7	97.2	97.5	97.6	0.85	0.87	0.87	0.83	16809	1.90	0.55	4.7	86	1900	0.70
2400	**1NA1 508-6WA10-0A.0**	1192	255	96.6	97.2	97.6	97.7	0.83	0.85	0.85	0.82	19227	2.10	0.85	5.9	75	350	1.00
2500	**1NA1 508-6WA10-0C.0**	1193	260	96.7	97.3	97.7	97.7	0.85	0.86	0.87	0.84	20011	1.85	0.50	4.6	97	1550	0.70
2620	**1NA1 564-6WA10-0C.0**	1193	270	97.0	97.4	97.7	97.6	0.85	0.87	0.88	0.86	20972	1.95	0.40	4.0	137	2200	0.60
2800	**1NA1 566-6WA10-0C.0**	1194	290	97.3	97.6	97.7	97.5	0.87	0.87	0.87	0.83	22394	2.40	0.50	5.0	152	2500	0.80
3200	**1NA1 568-6WA10-0C.0**	1193	330	97.2	97.6	97.8	97.7	0.86	0.87	0.88	0.85	25614	2.10	0.40	4.4	167	2300	0.65
8-pole: n_{sync} = 900 rpm at 60 Hz																		
700	**1NA1 404-8WA10-0AG0**	887	80	94.4	95.5	96.2	96.4	0.78	0.80	0.79	0.73	7536	1.70	0.70	3.6	22	900	0.95
700	**1NA1 404-8WA10-0CG0**	889	78	94.6	95.6	96.1	96.2	0.80	0.82	0.80	0.73	7519	1.75	0.55	3.3	27	1050	0.80
770	**1NA1 406-8WA10-0AG0**	888	88	94.6	95.7	96.3	96.5	0.78	0.80	0.80	0.74	8280	1.75	0.70	3.7	25	950	0.95
800	**1NA1 406-8WA10-0CG0**	890	89	95.0	95.8	96.2	96.2	0.81	0.82	0.79	0.71	8584	1.90	0.60	3.6	31	1100	0.85
850	**1NA1 408-8WA10-0AG0**	889	96	95.0	95.9	96.4	96.5	0.80	0.81	0.79	0.73	9130	1.90	0.80	4.0	27	900	1.00

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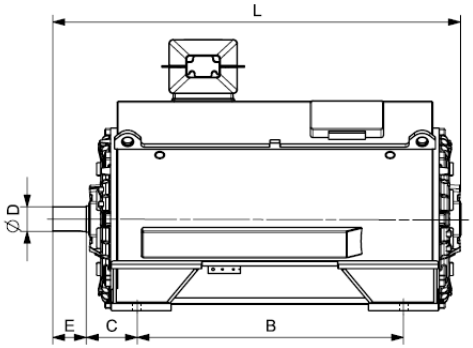
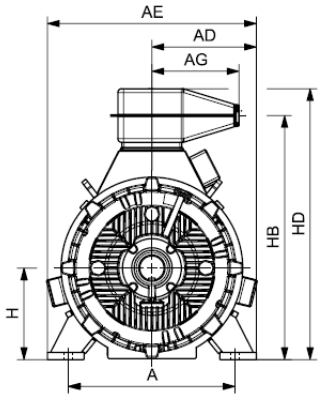
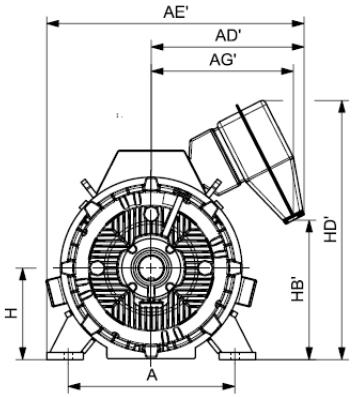
SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque		Locked rotor current		Inertia		
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R		I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]		[-]		kgm^2	kgm^2	[-]
860	**1NA1 408-8WA10-0CG0**	890	96	95.2	96.0	96.3	96.3	0.81	0.82	0.80	0.72	9227	1.90	0.60		3.6		34	1050	0.85
910	**1NA1 454-8WA10-0A.0**	891	106	95.1	96.0	96.5	96.5	0.76	0.78	0.77	0.72	9753	1.75	0.80		3.8		32	2300	0.90
950	**1NA1 454-8WA10-0C.0**	891	108	95.2	96.0	96.4	96.4	0.79	0.80	0.79	0.74	10182	1.70	0.55		3.3		41	1700	0.75
1020	**1NA1 456-8WA10-0A.0**	891	120	95.3	96.1	96.6	96.5	0.77	0.78	0.78	0.73	10932	1.80	0.85		3.9		37	2200	0.90
1040	**1NA1 456-8WA10-0C.0**	892	116	95.4	96.2	96.5	96.4	0.80	0.81	0.80	0.74	11134	1.80	0.60		3.5		47	1900	0.80
1250	**1NA1 458-8WA10-0A.0**	891	144	95.5	96.3	96.7	96.7	0.77	0.79	0.78	0.73	13397	1.80	0.85		4.0		44	1350	0.90
1250	**1NA1 458-8WA10-0C.0**	892	140	95.7	96.4	96.7	96.5	0.80	0.81	0.79	0.74	13382	1.85	0.60		3.6		56	1800	0.80
1350	**1NA1 504-8WA10-0A.0**	892	154	95.3	96.1	96.5	96.5	0.78	0.80	0.79	0.74	14452	1.70	0.60		4.2		59	2850	0.75
1400	**1NA1 504-8WA10-0C.0**	893	152	95.5	96.2	96.4	96.3	0.84	0.84	0.83	0.77	14971	1.90	0.55		4.3		76	2400	0.80
1550	**1NA1 506-8WA10-0A.0**	892	176	95.4	96.3	96.6	96.7	0.78	0.80	0.80	0.75	16594	1.70	0.60		4.2		66	2500	0.75
1600	**1NA1 506-8WA10-0C.0**	893	170	95.7	96.3	96.5	96.4	0.84	0.85	0.83	0.78	17110	1.90	0.55		4.3		85	2500	0.80
1710	**1NA1 508-8WA10-0A.0**	892	194	95.4	96.3	96.7	96.8	0.78	0.80	0.81	0.77	18306	1.65	0.55		4.0		75	1900	0.70
1800	**1NA1 508-8WA10-0C.0**	893	192	95.7	96.4	96.6	96.6	0.83	0.85	0.84	0.80	19248	1.80	0.50		4.1		96	2250	0.75
2000	**1NA1 564-8WA10-0C.0**	892	215	96.2	96.8	97.2	97.2	0.81	0.84	0.85	0.82	21411	1.75	0.40		3.5		136	3000	0.60
2260	**1NA1 566-8WA10-0C.0**	893	240	96.4	96.9	97.3	97.2	0.82	0.85	0.85	0.81	24167	1.85	0.45		3.7		152	3100	0.65
2500	**1NA1 568-8WA10-0C.0**	893	270	96.3	97.0	97.4	97.4	0.81	0.84	0.85	0.83	26734	1.70	0.40		3.5		167	2600	0.60







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2WA10-0A.0	2600	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 402-2WA10-0C.0	2700	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 404-2WA10-0A.0	2800	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 404-2WA10-0C.0	2900	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 406-2WA10-0A.0	2900	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 406-2WA10-0C.0	3000	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 408-2WA10-0A.0	3100	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 408-2WA10-0C.0	3200	750	489	675	939	1125	489	624	1120	254	85	130	400	o.r.	1091	o.r.	1222	1700	o.r.
1NA1 454-2WA10-0C.0	3900	850	489	714	1004	1229	489	665	1250	254	95	130	450	o.r.	1202	o.r.	1333	1900	o.r.
1NA1 456-2WA10-0C.0	4100	850	489	714	1004	1229	489	665	1250	254	95	130	450	o.r.	1202	o.r.	1333	1900	o.r.
1NA1 458-2WA10-0C.0	4400	850	489	714	1004	1229	489	665	1250	254	95	130	450	o.r.	1202	o.r.	1333	1900	o.r.
1NA1 504-2WA10-0CJ0	5100	950	489	744	1054	1309	489	695	1320	475	110	165	500	o.r.	1326	o.r.	1457	2290	o.r.
1NA1 506-2WA10-0CJ0	5600	950	489	744	1054	1309	489	695	1320	475	110	165	500	o.r.	1326	o.r.	1457	2290	o.r.
1NA1 508-2WA10-0CJ0	5900	950	489	744	1054	1309	489	695	1320	475	110	165	500	o.r.	1326	o.r.	1457	2290	o.r.
1NA1 566-2WA10-0CJ0	7200	1060	489	777	1124	1412	489	728	1400	560	120	165	560	o.r.	1462	o.r.	1593	2577	o.r.
1NA1 568-2WA10-0CJ0	7700	1060	489	777	1124	1412	489	728	1400	560	120	165	560	o.r.	1462	o.r.	1593	2577	o.r.
4-pole																			
1NA1 404-4WA10-0A.0	2800	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 404-4WA10-0C.0	3000	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-4WA10-0A.0	3000	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-4WA10-0C.0	3200	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-4WA10-0A.0	3300	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-4WA10-0C.0	3400	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.

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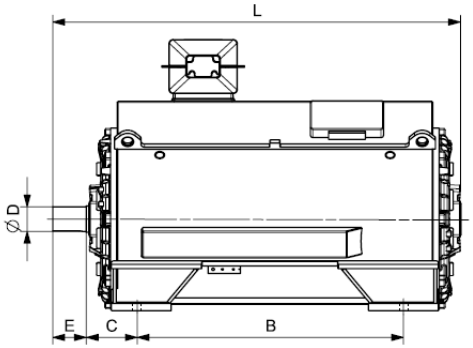

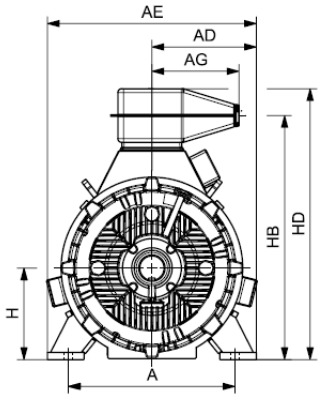

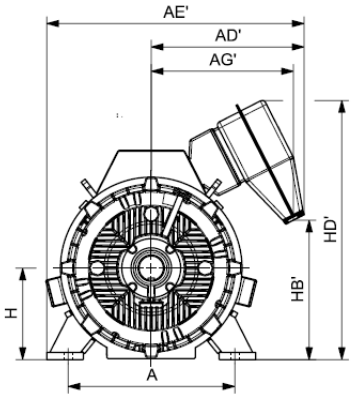

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 454-4WA10-0A.0	3800	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 454-4WA10-0C.0	4000	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-4WA10-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-4WA10-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-4WA10-0A.0	4400	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-4WA10-0C.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 504-4WA10-0C.0	5300	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 504-4WA10-0A.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-4WA10-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-4WA10-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-4WA10-0A.0	6100	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-4WA10-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 562-4WA10-0A.0	6500	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 562-4WA10-0C.0	6900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 564-4WA10-0A.0	7000	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 564-4WA10-0C.0	7300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 566-4WA10-0A.0	7400	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 566-4WA10-0C.0	7700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 568-4WA10-0A.0	7800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 568-4WA10-0C.0	8200	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
6-pole																			
1NA1 404-6WA10-0AG0	2900	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 404-6WA10-0CG0	3100	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-6WA10-0AG0	3200	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.

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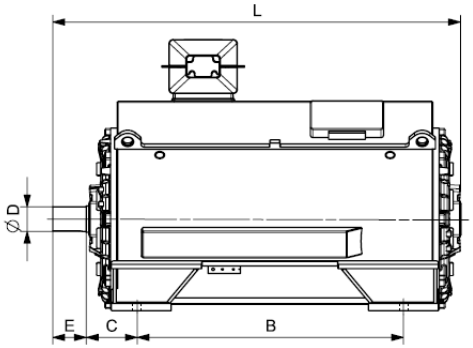

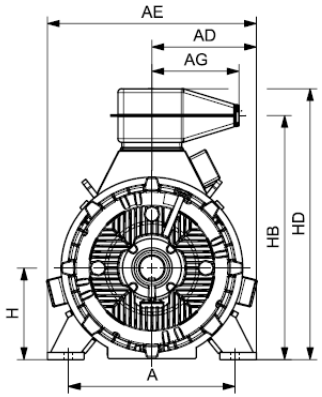

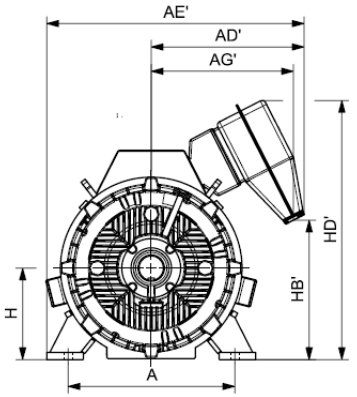

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 406-6WA10-0CG0	3400	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-6WA10-0AG0	3400	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-6WA10-0CG0	3600	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 454-6WA10-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 454-6WA10-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-6WA10-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-6WA10-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-6WA10-0A.0	4500	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-6WA10-0C.0	4800	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 502-6WA10-0A.0	4800	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 502-6WA10-0C.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 504-6WA10-0A.0	5200	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 504-6WA10-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-6WA10-0A.0	5600	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-6WA10-0C.0	5900	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-6WA10-0A.0	6100	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-6WA10-0C.0	6400	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 564-6WA10-0C.0	7700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 566-6WA10-0C.0	8200	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 568-6WA10-0C.0	8700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
8-pole																			
1NA1 404-8WA10-0AG0	2900	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 404-8WA10-0CG0	3100	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 406-8WA10-0AG0	3200	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.

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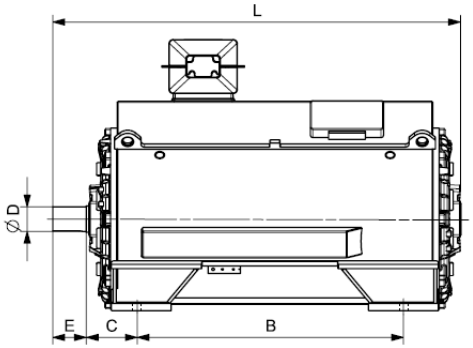

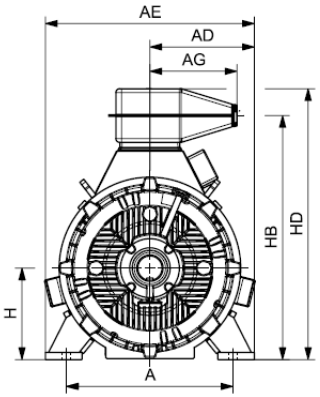

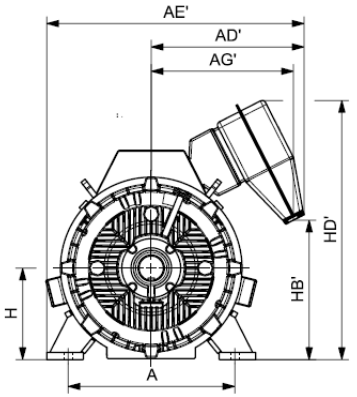

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 406-8WA10-0CG0	3300	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-8WA10-0AG0	3400	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 408-8WA10-0CG0	3600	750	489	675	939	1125	489	624	1120	254	110	165	400	o.r.	1091	o.r.	1222	1735	o.r.
1NA1 454-8WA10-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 454-8WA10-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-8WA10-0A.0	4000	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 456-8WA10-0C.0	4200	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-8WA10-0A.0	4500	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 458-8WA10-0C.0	4700	850	489	714	1004	1229	489	665	1250	280	120	165	450	o.r.	1202	o.r.	1333	2030	o.r.
1NA1 504-8WA10-0A.0	5200	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 504-8WA10-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-8WA10-0A.0	5600	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 506-8WA10-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-8WA10-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 508-8WA10-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	o.r.	1326	o.r.	1457	2175	o.r.
1NA1 564-8WA10-0C.0	7600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 566-8WA10-0C.0	8100	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.
1NA1 568-8WA10-0C.0	8600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	o.r.	1462	o.r.	1593	2346	o.r.

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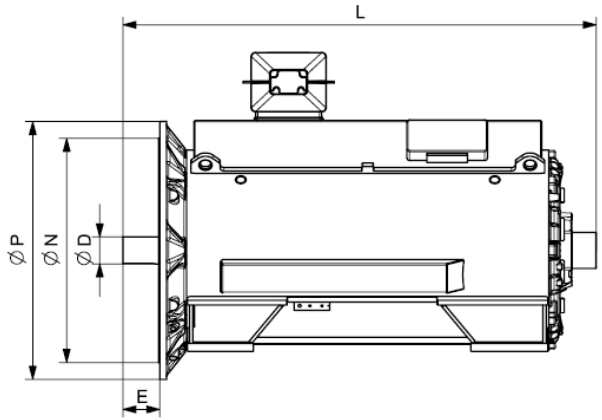

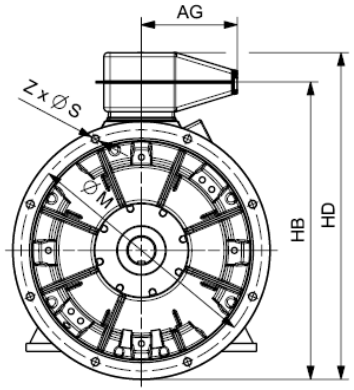

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 404-4WA18-0AG0	2900	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 404-4WA18-0CG0	3100	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-4WA18-0AG0	3100	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-4WA18-0CG0	3300	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-4WA18-0AG0	3300	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-4WA18-0CG0	3500	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 454-4WA18-0AG0	4000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WA18-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WA18-0AG0	4300	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WA18-0CG0	4500	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WA18-0AG0	4600	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WA18-0CG0	4800	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WA18-0CG0	5500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WA18-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WA18-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WA18-0CG0	5900	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WA18-0AG0	6300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WA18-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 562-4WA18-0AG0	6800	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 562-4WA18-0CG0	7200	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WA18-0AG0	7300	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WA18-0CG0	7600	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16

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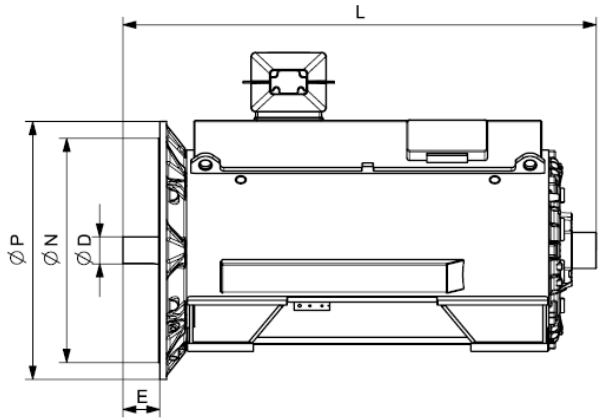

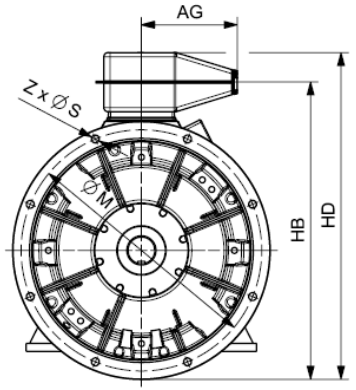

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 566-4WA18-0AG0	7700	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WA18-0CG0	8000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WA18-0AG0	8100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WA18-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
6-pole													
1NA1 404-6WA18-0AG0	3000	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 404-6WA18-0CG0	3200	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-6WA18-0AG0	3300	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-6WA18-0CG0	3400	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-6WA18-0AG0	3500	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-6WA18-0CG0	3600	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 454-6WA18-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-6WA18-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WA18-0AG0	4300	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WA18-0CG0	4500	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WA18-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WA18-0CG0	4900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WA18-0AG0	5000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WA18-0CG0	5200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WA18-0AG0	5400	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WA18-0CG0	5600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WA18-0AG0	5800	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WA18-0CG0	6000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16

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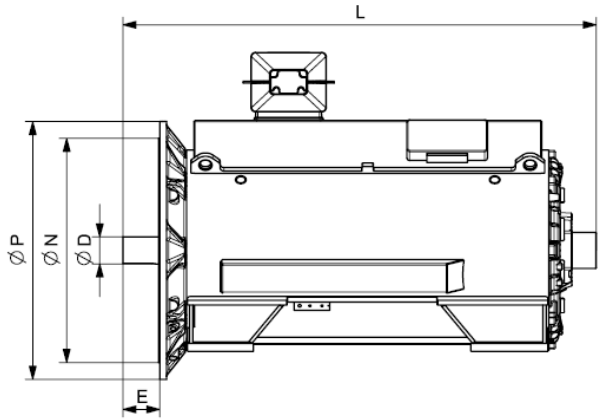

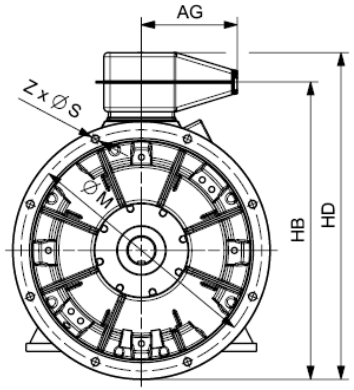

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 508-6WA18-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WA18-0CG0	6600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WA18-0CG0	8000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WA18-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WA18-0CG0	9000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 404-8WA18-0AG0	3000	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 404-8WA18-0CG0	3100	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-8WA18-0AG0	3300	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 406-8WA18-0CG0	3400	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-8WA18-0AG0	3500	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 408-8WA18-0CG0	3600	989	489	110	1191	1322	1735	o.r.	940	880	1000	22	8
1NA1 454-8WA18-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WA18-0CG0	4000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WA18-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WA18-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WA18-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WA18-0CG0	4900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 504-8WA18-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WA18-0CG0	5600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WA18-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WA18-0CG0	6000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WA18-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16

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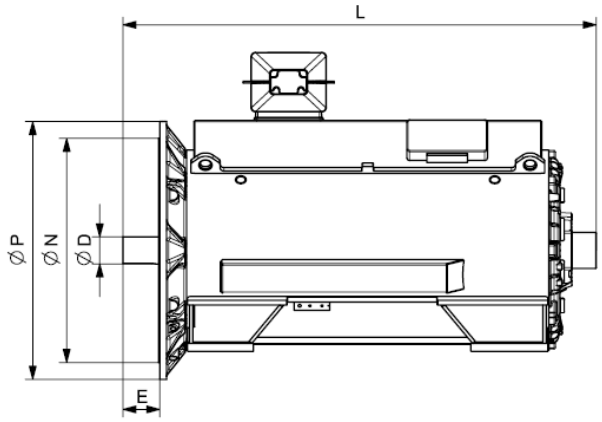

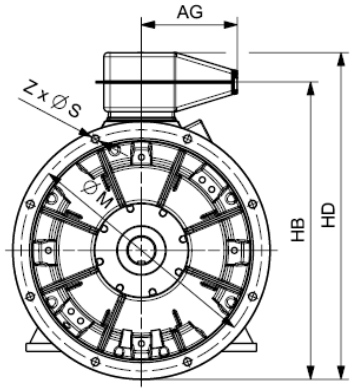

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 508-8WA18-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-8WA18-0CG0	7900	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WA18-0CG0	8400	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WA18-0CG0	8900	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]		kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3000 rpm at 50 Hz																		
540	**1NA1 402-2WA80-0A.0**	2982	38	95.7	96.0	96.2	95.7	0.87	0.86	0.85	0.79	1729	2.75	1.10	5.9		9	60	1.00
530	**1NA1 402-2WA80-0C.0**	2978	36	95.5	95.9	96.1	95.7	0.88	0.88	0.86	0.80	1700	2.80	0.90	6.0		11	80	1.00
590	**1NA1 404-2WA80-0A.0**	2982	40	95.9	96.2	96.4	96.0	0.88	0.87	0.86	0.81	1889	2.70	1.15	5.8		10	80	1.00
590	**1NA1 404-2WA80-0C.0**	2977	40	95.7	96.1	96.3	96.0	0.89	0.88	0.87	0.82	1893	2.75	0.85	5.8		12	90	1.00
710	**1NA1 406-2WA80-0A.0**	2983	48	96.2	96.5	96.6	96.3	0.88	0.88	0.86	0.80	2273	2.90	1.25	6.2		11	100	1.00
710	**1NA1 406-2WA80-0C.0**	2978	48	96.0	96.4	96.6	96.3	0.89	0.89	0.88	0.82	2277	2.90	0.95	6.2		14	115	1.00
770	**1NA1 408-2WA80-0A.0**	2984	52	96.3	96.6	96.7	96.3	0.89	0.88	0.86	0.80	2464	3.05	1.35	6.5		12	85	1.00
750	**1NA1 408-2WA80-0C.0**	2980	50	96.2	96.5	96.7	96.3	0.90	0.89	0.88	0.81	2403	3.10	1.00	6.7		14	140	1.00
920	**1NA1 452-2WA80-0C.0**	2982	62	96.4	96.9	97.0	96.8	0.89	0.89	0.88	0.83	2946	2.60	0.75	6.1		17	130	1.00
900	**1NA1 452-2WA80-0A.0**	2986	61	96.5	96.8	96.9	96.6	0.88	0.88	0.86	0.81	2878	2.50	1.30	6.0		13	150	1.00
1020	**1NA1 454-2WA80-0A.0**	2982	67	96.6	97.0	97.2	97.0	0.90	0.90	0.89	0.85	3266	2.60	0.75	6.0		18	140	1.00
1000	**1NA1 454-2WA80-0C.0**	2986	67	96.6	97.0	97.1	96.8	0.88	0.89	0.88	0.83	3198	2.50	1.30	6.0		14	150	1.00
1120	**1NA1 456-2WA80-0A.0**	2982	73	96.6	97.0	97.3	97.1	0.90	0.91	0.90	0.85	3587	2.65	0.80	6.3		20	150	1.00
1120	**1NA1 456-2WA80-0C.0**	2986	74	96.7	97.0	97.2	96.9	0.89	0.90	0.89	0.85	3582	2.60	1.35	6.2		16	150	1.00
1250	**1NA1 458-2WA80-0A.0**	2987	82	96.9	97.3	97.4	97.2	0.90	0.90	0.89	0.85	3996	2.70	1.20	6.6		17	115	1.00
1230	**1NA1 458-2WA80-0C.0**	2983	80	96.7	97.1	97.2	97.0	0.91	0.91	0.90	0.85	3938	2.80	1.00	6.6		22	150	1.00
1500	**1NA1 504-2WA80-0AJ0**	2982	102	96.7	97.1	97.4	97.2	0.87	0.88	0.89	0.86	4803	2.30	0.65	4.9		23	40	0.80
1530	**1NA1 504-2WA80-0C.0**	2983	102	96.7	97.1	97.3	97.1	0.89	0.90	0.90	0.87	4898	2.50	0.60	5.3		30	125	0.90
1660	**1NA1 506-2WA80-0AJ0**	2983	110	96.8	97.2	97.5	97.4	0.88	0.89	0.89	0.87	5314	2.35	0.70	5.1		26	55	0.80
1700	**1NA1 506-2WA80-0C.0**	2984	110	96.9	97.2	97.4	97.3	0.90	0.91	0.91	0.88	5440	2.55	0.60	5.4		33	145	0.90
1920	**1NA1 508-2WA80-0AJ0**	2983	128	97.0	97.4	97.6	97.5	0.88	0.89	0.89	0.87	6146	2.35	0.75	5.1		28	55	0.80
1970	**1NA1 508-2WA80-0C.0**	2984	128	97.0	97.4	97.6	97.4	0.90	0.91	0.91	0.88	6304	2.55	0.60	5.4		36	150	0.85
2170	**1NA1 566-2WA80-0C.0**	2985	144	96.9	97.3	97.5	97.3	0.89	0.90	0.91	0.90	6942	2.05	0.50	4.5		55	300	0.60
2550	**1NA1 568-2WA80-0C.0**	2985	166	97.2	97.5	97.7	97.5	0.89	0.91	0.92	0.90	8158	2.10	0.50	4.7		60	250	0.60
4-pole: n_{sync} = 1500 rpm at 50 Hz																		
710	**1NA1 404-4WA80-0A.0**	1487	51	95.4	96.0	96.4	96.4	0.84	0.84	0.83	0.76	4560	2.35	1.10	4.9		12	350	1.00
720	**1NA1 404-4WA80-0C.0**	1488	51	95.5	96.1	96.5	96.4	0.85	0.85	0.84	0.78	4621	2.50	0.70	5.2		15	350	1.00
800	**1NA1 406-4WA80-0A.0**	1487	57	95.6	96.2	96.6	96.6	0.84	0.84	0.83	0.77	5137	2.30	1.05	4.8		13	300	1.00
810	**1NA1 406-4WA80-0C.0**	1488	57	95.7	96.3	96.6	96.6	0.85	0.85	0.84	0.78	5198	2.45	0.70	5.1		17	450	1.00
930	**1NA1 408-4WA80-0A.0**	1489	66	95.9	96.4	96.7	96.6	0.84	0.84	0.82	0.75	5964	2.55	1.30	5.4		15	250	1.00
950	**1NA1 408-4WA80-0C.0**	1490	67	95.9	96.4	96.7	96.6	0.85	0.85	0.83	0.76	6088	2.55	0.65	5.2		19	450	1.00
1000	**1NA1 452-4WA80-0A.0**	1487	73	95.6	96.3	96.7	96.7	0.81	0.82	0.82	0.77	6422	1.95	0.95	4.4		20	400	0.85
980	**1NA1 452-4WA80-0C.0**	1489	70	95.8	96.4	96.8	96.7	0.84	0.84	0.83	0.77	6285	2.15	0.60	4.9		25	450	1.00
1050	**1NA1 454-4WA80-0A.0**	1489	76	95.9	96.5	96.8	96.7	0.83	0.83	0.82	0.75	6734	2.15	1.05	4.9		22	500	0.95
1100	**1NA1 454-4WA80-0C.0**	1490	77	96.0	96.6	96.9	96.8	0.85	0.85	0.83	0.77	7050	2.25	0.65	5.2		28	500	1.00
1220	**1NA1 456-4WA80-0A.0**	1490	87	96.2	96.7	97.0	96.8	0.84	0.84	0.82	0.75	7819	2.30	1.15	5.2		25	400	1.00

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SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]		kgm^2	kgm^2	[-]
1250	**1NA1 456-4WA80-0C.0**	1491	88	96.3	96.8	97.0	96.8	0.86	0.85	0.83	0.77	8006	2.45	0.75	5.6		32	650	1.00
1330	**1NA1 458-4WA80-0A.0**	1489	94	96.2	96.8	97.1	97.0	0.83	0.84	0.83	0.77	8530	2.10	1.05	4.8		28	350	0.95
1400	**1NA1 458-4WA80-0C.0**	1490	97	96.3	96.8	97.2	97.1	0.85	0.86	0.84	0.79	8972	2.20	0.65	5.1		35	700	1.00
1500	**1NA1 504-4WA80-0A.0**	1490	104	96.5	96.8	97.0	96.8	0.86	0.86	0.84	0.77	9613	2.85	0.95	6.9		33	650	1.00
1500	**1NA1 504-4WA80-0C.0**	1492	106	96.6	97.0	97.1	96.9	0.84	0.85	0.84	0.78	9600	2.25	0.65	5.6		42	900	1.00
1650	**1NA1 506-4WA80-0A.0**	1491	112	96.7	97.0	97.1	96.9	0.87	0.87	0.85	0.77	10568	3.15	1.10	7.6		38	600	1.00
1650	**1NA1 506-4WA80-0C.0**	1492	114	96.8	97.1	97.2	97.0	0.85	0.86	0.84	0.78	10561	2.50	0.70	6.1		48	1150	1.00
1900	**1NA1 508-4WA80-0A.0**	1490	128	96.7	97.0	97.2	97.1	0.88	0.88	0.87	0.81	12177	2.90	1.00	7.0		43	450	1.00
1900	**1NA1 508-4WA80-0C.0**	1492	130	96.8	97.1	97.3	97.2	0.86	0.87	0.86	0.80	12161	2.30	0.65	5.6		55	1000	1.00
2120	**1NA1 562-4WA80-0A.0**	1491	144	96.9	97.3	97.5	97.3	0.85	0.87	0.86	0.82	13578	2.20	0.75	5.7		54	1100	1.00
2100	**1NA1 562-4WA80-0C.0**	1491	144	96.8	97.3	97.6	97.5	0.83	0.86	0.86	0.82	13450	1.95	0.60	4.9		72	1100	0.90
2450	**1NA1 564-4WA80-0A.0**	1491	166	97.0	97.4	97.6	97.5	0.85	0.87	0.86	0.82	15691	2.15	0.70	5.5		60	850	1.00
2410	**1NA1 564-4WA80-0C.0**	1491	166	96.9	97.4	97.7	97.6	0.82	0.86	0.86	0.82	15435	1.85	0.55	4.7		79	1200	0.80
2700	**1NA1 566-4WA80-0A.0**	1492	182	97.1	97.5	97.7	97.6	0.86	0.88	0.87	0.83	17281	2.25	0.80	5.8		67	750	1.00
2660	**1NA1 566-4WA80-0C.0**	1491	180	97.1	97.6	97.8	97.7	0.84	0.87	0.87	0.83	17036	2.00	0.60	5.0		88	1200	0.90
2950	**1NA1 568-4WA80-0A.0**	1492	196	97.3	97.6	97.8	97.6	0.87	0.89	0.87	0.83	18881	2.45	0.90	6.3		73	750	1.00
2950	**1NA1 568-4WA80-0C.0**	1492	198	97.3	97.7	97.9	97.8	0.86	0.88	0.87	0.83	18881	2.15	0.65	5.4		97	1300	0.95
6-pole: n_{sync} = 1000 rpm at 50 Hz																			
530	**1NA1 404-6WA80-0AG0**	989	40	94.3	95.2	96.0	96.1	0.80	0.81	0.79	0.73	5117	2.05	0.80	4.5		12	550	1.00
530	**1NA1 404-6WA80-0CG0**	989	40	94.0	95.1	95.8	95.9	0.79	0.81	0.80	0.74	5117	1.80	0.60	3.6		15	450	0.85
630	**1NA1 406-6WA80-0AG0**	989	47	94.5	95.5	96.3	96.4	0.80	0.81	0.80	0.75	6083	1.95	0.75	4.3		13	700	1.00
630	**1NA1 406-6WA80-0CG0**	990	47	94.6	95.5	96.1	96.1	0.80	0.81	0.79	0.73	6077	1.90	0.60	3.7		17	650	0.85
680	**1NA1 408-6WA80-0AG0**	989	50	94.8	95.7	96.4	96.4	0.81	0.82	0.81	0.75	6566	2.05	0.80	4.5		15	800	1.00
680	**1NA1 408-6WA80-0CG0**	989	51	94.6	95.6	96.2	96.3	0.80	0.81	0.81	0.75	6566	1.80	0.60	3.6		19	750	0.80
800	**1NA1 454-6WA80-0A.0**	991	60	94.9	95.7	96.2	96.2	0.79	0.81	0.80	0.76	7709	1.85	0.90	4.5		32	1000	0.90
850	**1NA1 454-6WA80-0C.0**	991	61	95.0	95.8	96.3	96.4	0.83	0.84	0.83	0.78	8191	1.95	0.60	4.1		41	700	0.90
950	**1NA1 456-6WA80-0A.0**	991	71	95.2	96.0	96.5	96.5	0.79	0.81	0.80	0.76	9154	1.90	0.90	4.6		37	1500	0.95
1000	**1NA1 456-6WA80-0C.0**	991	72	95.4	96.1	96.5	96.5	0.83	0.84	0.83	0.78	9636	2.00	0.60	4.3		47	1100	0.90
1150	**1NA1 458-6WA80-0A.0**	991	85	95.4	96.2	96.6	96.7	0.80	0.81	0.81	0.77	11081	1.90	0.90	4.6		44	1950	0.90
1150	**1NA1 458-6WA80-0C.0**	992	81	95.7	96.3	96.7	96.7	0.84	0.85	0.83	0.78	11070	2.05	0.65	4.5		56	1500	0.95
1250	**1NA1 502-6WA80-0A.0**	992	89	95.7	96.5	97.0	97.2	0.83	0.84	0.83	0.80	12033	2.20	0.90	6.1		52	1650	1.00
1340	**1NA1 502-6WA80-0C.0**	993	93	95.8	96.5	97.1	97.3	0.85	0.86	0.86	0.82	12886	1.90	0.55	4.7		68	1100	0.80
1440	**1NA1 504-6WA80-0A.0**	992	102	95.7	96.5	97.1	97.4	0.83	0.85	0.85	0.81	13862	2.10	0.90	5.8		59	1750	1.00
1500	**1NA1 504-6WA80-0C.0**	993	104	95.9	96.6	97.2	97.4	0.85	0.87	0.86	0.83	14425	1.85	0.55	4.6		76	1350	0.75
1620	**1NA1 506-6WA80-0A.0**	992	114	95.9	96.6	97.2	97.4	0.84	0.85	0.85	0.82	15595	2.15	0.90	5.9		66	1750	1.00
1670	**1NA1 506-6WA80-0C.0**	993	114	96.1	96.8	97.3	97.5	0.85	0.87	0.87	0.83	16060	1.90	0.55	4.7		86	1500	0.80
1850	**1NA1 508-6WA80-0A.0**	992	130	96.1	96.8	97.3	97.5	0.84	0.85	0.86	0.82	17809	2.20	0.95	6.0		75	1100	1.00

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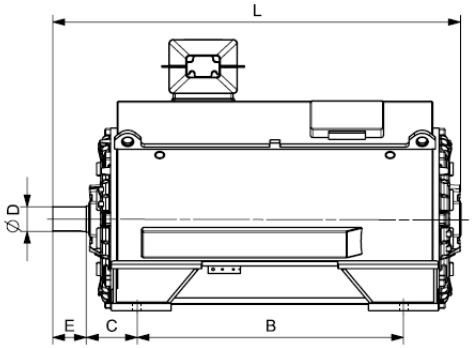
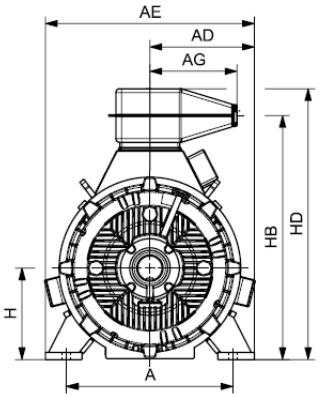
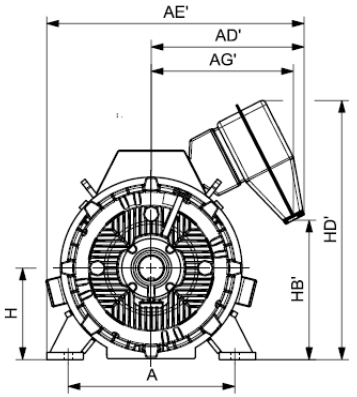
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
1900	**1NA1 508-6WA80-0C.0**	993	130	96.3	96.9	97.4	97.6	0.86	0.87	0.87	0.84	18272	1.95	0.55	4.8	97	1950	0.80
2050	**1NA1 564-6WA80-0C.0**	993	140	96.5	97.1	97.5	97.5	0.86	0.87	0.88	0.85	19714	2.05	0.45	4.2	137	3000	0.70
2300	**1NA1 566-6WA80-0C.0**	993	158	96.7	97.2	97.6	97.6	0.86	0.87	0.88	0.85	22118	2.10	0.45	4.3	152	3300	0.75
2700	**1NA1 568-6WA80-0C.0**	994	182	97.0	97.4	97.7	97.7	0.87	0.88	0.87	0.84	25939	2.25	0.50	4.7	167	3350	0.80
8-pole: n_{sync} = 750 rpm at 50 Hz																		
380	**1NA1 404-8WA80-0AG0**	736	30	92.5	93.9	94.8	95.1	0.78	0.78	0.76	0.68	4930	1.85	0.60	3.4	12	700	1.00
400	**1NA1 404-8WA80-0CG0**	741	32	93.0	94.3	95.0	95.0	0.75	0.76	0.73	0.63	5155	1.60	0.50	2.9	15	800	0.65
420	**1NA1 406-8WA80-0AG0**	736	32	92.8	94.1	95.0	95.2	0.78	0.79	0.77	0.69	5449	1.85	0.60	3.4	14	650	1.00
430	**1NA1 406-8WA80-0CG0**	742	34	93.4	94.6	95.2	95.1	0.76	0.77	0.73	0.64	5534	1.65	0.50	3.0	17	900	0.70
470	**1NA1 408-8WA80-0AG0**	736	36	93.0	94.3	95.1	95.4	0.79	0.79	0.78	0.70	6098	1.85	0.60	3.5	15	600	1.00
480	**1NA1 408-8WA80-0CG0**	742	38	93.6	94.8	95.3	95.3	0.76	0.77	0.74	0.65	6177	1.65	0.55	3.1	19	1100	0.70
600	**1NA1 454-8WA80-0A.0**	741	47	93.6	94.9	95.6	95.8	0.77	0.78	0.78	0.73	7732	1.80	0.80	3.9	32	1050	1.00
630	**1NA1 454-8WA80-0C.0**	742	48	93.7	94.9	95.6	95.7	0.80	0.81	0.80	0.74	8108	1.75	0.60	3.4	41	900	0.85
730	**1NA1 456-8WA80-0A.0**	742	56	94.4	95.4	96.0	96.0	0.79	0.79	0.78	0.72	9395	1.90	0.90	4.1	37	1600	1.00
750	**1NA1 456-8WA80-0C.0**	743	56	94.4	95.4	95.9	95.9	0.81	0.81	0.79	0.73	9639	1.90	0.65	3.7	47	1250	0.90
850	**1NA1 458-8WA80-0A.0**	741	65	94.4	95.5	96.2	96.3	0.78	0.79	0.79	0.75	10954	1.80	0.85	3.8	44	2200	1.00
870	**1NA1 458-8WA80-0C.0**	742	65	94.5	95.6	96.1	96.2	0.80	0.81	0.81	0.76	11197	1.80	0.60	3.5	56	1850	0.85
900	**1NA1 502-8WA80-0A.0**	742	69	94.2	95.3	95.9	96.1	0.77	0.79	0.78	0.73	11583	1.75	0.60	4.2	52	1950	0.85
940	**1NA1 502-8WA80-0C.0**	743	68	94.6	95.5	95.8	95.9	0.84	0.84	0.83	0.76	12081	1.95	0.55	4.3	67	1650	0.90
1020	**1NA1 504-8WA80-0A.0**	742	77	94.5	95.5	96.0	96.2	0.79	0.80	0.79	0.74	13127	1.80	0.65	4.4	59	2300	0.85
1100	**1NA1 504-8WA80-0C.0**	743	78	94.7	95.6	96.0	96.0	0.84	0.85	0.83	0.77	14138	1.95	0.65	4.3	76	1800	0.90
1180	**1NA1 506-8WA80-0A.0**	743	89	94.8	95.8	96.2	96.3	0.79	0.80	0.80	0.74	15166	1.85	0.65	4.5	66	3200	0.90
1250	**1NA1 506-8WA80-0C.0**	743	89	95.1	95.9	96.2	96.2	0.85	0.85	0.83	0.77	16065	2.00	0.60	4.5	85	2450	0.95
1350	**1NA1 508-8WA80-0A.0**	742	100	94.8	95.8	96.3	96.5	0.79	0.81	0.80	0.76	17374	1.75	0.65	4.3	75	3150	0.85
1400	**1NA1 508-8WA80-0C.0**	743	99	95.2	95.9	96.3	96.3	0.84	0.85	0.84	0.78	17993	1.95	0.60	4.4	96	2900	0.90
1600	**1NA1 564-8WA80-0C.0**	743	114	95.5	96.4	97.0	97.1	0.82	0.84	0.85	0.82	20564	1.75	0.45	3.5	136	4250	0.65
1800	**1NA1 566-8WA80-0C.0**	743	128	95.6	96.5	97.1	97.3	0.82	0.84	0.85	0.82	23134	1.75	0.45	3.5	152	4050	0.65
2000	**1NA1 568-8WA80-0C.0**	743	140	96.0	96.7	97.2	97.3	0.83	0.85	0.85	0.81	25705	1.85	0.45	3.8	167	4400	0.70







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2WA80-0A.0	2600	750	710	853	1160	1303	710	805	1120	254	85	130	400	o.r.	1193	o.r.	1373	1700	o.r.
1NA1 402-2WA80-0C.0	2700	750	710	853	1160	1303	710	805	1120	254	85	130	400	o.r.	1193	o.r.	1373	1700	o.r.
1NA1 404-2WA80-0A.0	2700	750	710	853	1160	1303	710	805	1120	254	85	130	400	o.r.	1193	o.r.	1373	1700	o.r.
1NA1 404-2WA80-0C.0	2800	750	710	853	1160	1303	710	805	1120	254	85	130	400	o.r.	1193	o.r.	1373	1700	o.r.
1NA1 406-2WA80-0A.0	2900	750	710	853	1160	1303	710	805	1120	254	85	130	400	o.r.	1193	o.r.	1373	1700	o.r.
1NA1 406-2WA80-0C.0	3000	750	710	853	1160	1303	710	805	1120	254	85	130	400	o.r.	1193	o.r.	1373	1700	o.r.
1NA1 408-2WA80-0A.0	3000	750	710	853	1160	1303	710	805	1120	254	85	130	400	o.r.	1193	o.r.	1373	1700	o.r.
1NA1 408-2WA80-0C.0	3100	750	710	853	1160	1303	710	805	1120	254	85	130	400	o.r.	1193	o.r.	1373	1700	o.r.
1NA1 452-2WA80-0C.0	3600	850	710	903	1225	1418	710	857	1250	254	95	130	450	o.r.	1304	o.r.	1484	1900	o.r.
1NA1 452-2WA80-0A.0	3500	850	710	903	1225	1418	710	857	1250	254	95	130	450	o.r.	1304	o.r.	1484	1900	o.r.
1NA1 454-2WA80-0A.0	3700	850	710	903	1225	1418	710	857	1250	254	95	130	450	o.r.	1304	o.r.	1484	1900	o.r.
1NA1 454-2WA80-0C.0	3900	850	710	903	1225	1418	710	857	1250	254	95	130	450	o.r.	1304	o.r.	1484	1900	o.r.
1NA1 456-2WA80-0A.0	3900	850	710	903	1225	1418	710	857	1250	254	95	130	450	o.r.	1304	o.r.	1484	1900	o.r.
1NA1 456-2WA80-0C.0	4100	850	710	903	1225	1418	710	857	1250	254	95	130	450	o.r.	1304	o.r.	1484	1900	o.r.
1NA1 458-2WA80-0A.0	4100	850	710	903	1225	1418	710	857	1250	254	95	130	450	o.r.	1304	o.r.	1484	1900	o.r.
1NA1 458-2WA80-0C.0	4300	850	710	903	1225	1418	710	857	1250	254	95	130	450	o.r.	1304	o.r.	1484	1900	o.r.
1NA1 504-2WA80-0AJ0	4900	950	710	933	1275	1498	710	887	1320	475	110	165	500	o.r.	1428	o.r.	1608	2290	o.r.
1NA1 504-2WA80-0C.0	5100	950	710	933	1275	1498	710	887	1320	280	110	165	500	o.r.	1428	o.r.	1608	2049	o.r.
1NA1 506-2WA80-0AJ0	5300	950	710	933	1275	1498	710	887	1320	475	110	165	500	o.r.	1428	o.r.	1608	2290	o.r.
1NA1 506-2WA80-0C.0	5500	950	710	933	1275	1498	710	887	1320	280	110	165	500	o.r.	1428	o.r.	1608	2049	o.r.
1NA1 508-2WA80-0AJ0	5600	950	710	933	1275	1498	710	887	1320	475	110	165	500	o.r.	1428	o.r.	1608	2290	o.r.
1NA1 508-2WA80-0C.0	5800	950	710	933	1275	1498	710	887	1320	280	110	165	500	o.r.	1428	o.r.	1608	2049	o.r.
1NA1 566-2WA80-0C.0	7500	1060	710	966	1345	1601	710	919	1400	290	120	165	560	o.r.	1564	o.r.	1744	2193	o.r.

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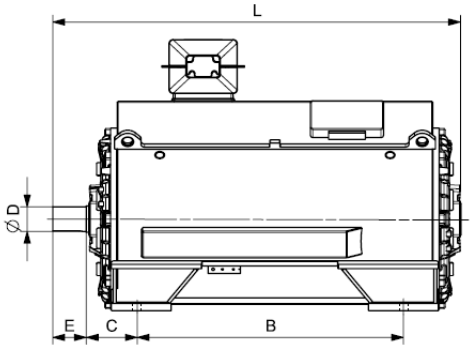

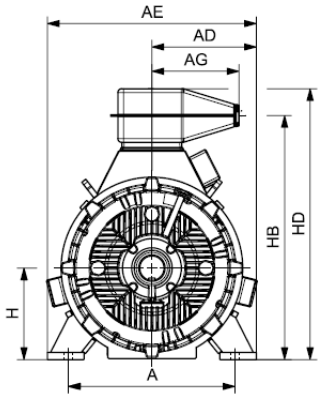

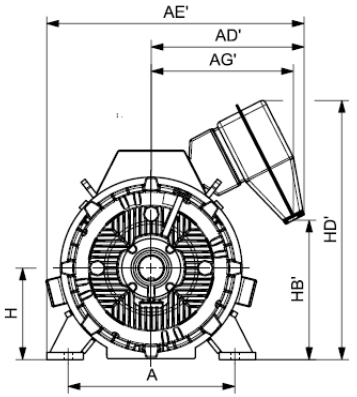

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 568-2WA80-0C.0	8000	1060	710	966	1345	1601	710	919	1400	290	120	165	560	o.r.	1564	o.r.	1744	2193	o.r.
4-pole																			
1NA1 404-4WA80-0A.0	2800	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 404-4WA80-0C.0	2900	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 406-4WA80-0A.0	3000	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 406-4WA80-0C.0	3100	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 408-4WA80-0A.0	3200	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 408-4WA80-0C.0	3400	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 452-4WA80-0A.0	3600	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 452-4WA80-0C.0	3700	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 454-4WA80-0A.0	3800	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 454-4WA80-0C.0	3900	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 456-4WA80-0A.0	4100	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 456-4WA80-0C.0	4300	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 458-4WA80-0A.0	4400	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 458-4WA80-0C.0	4600	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 504-4WA80-0A.0	5100	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 504-4WA80-0C.0	5300	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 506-4WA80-0A.0	5500	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 506-4WA80-0C.0	5700	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 508-4WA80-0A.0	6000	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 508-4WA80-0C.0	6200	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 562-4WA80-0A.0	6500	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 562-4WA80-0C.0	6800	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.

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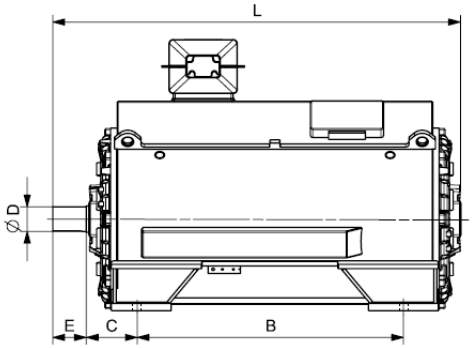

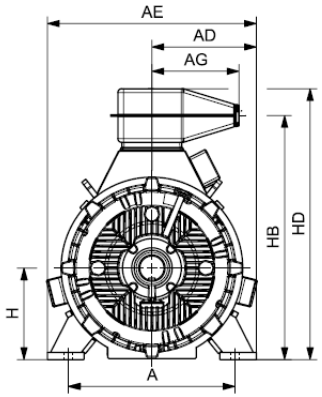

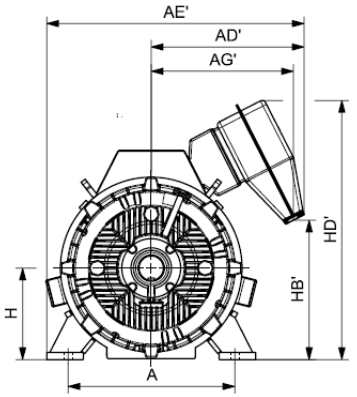

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 564-4WA80-0A.0	6900	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 564-4WA80-0C.0	7200	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 566-4WA80-0A.0	7300	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 566-4WA80-0C.0	7700	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 568-4WA80-0A.0	7800	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 568-4WA80-0C.0	8200	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
6-pole																			
1NA1 404-6WA80-0AG0	2700	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 404-6WA80-0CG0	2900	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 406-6WA80-0AG0	3000	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 406-6WA80-0CG0	3100	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 408-6WA80-0AG0	3200	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 408-6WA80-0CG0	3300	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 454-6WA80-0A.0	3700	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 454-6WA80-0C.0	3900	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 456-6WA80-0A.0	4000	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 456-6WA80-0C.0	4300	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 458-6WA80-0A.0	4500	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 458-6WA80-0C.0	4800	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 502-6WA80-0A.0	4800	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 502-6WA80-0C.0	5000	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 504-6WA80-0A.0	5200	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 504-6WA80-0C.0	5400	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 506-6WA80-0A.0	5600	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.

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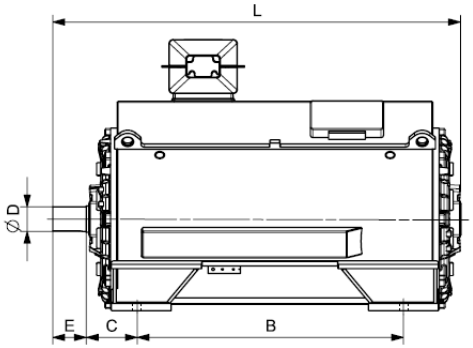

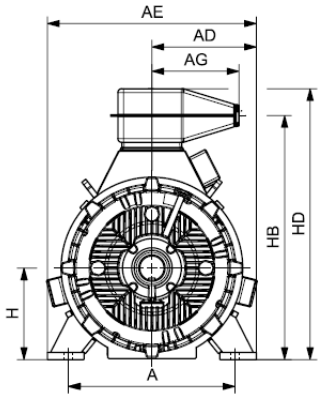

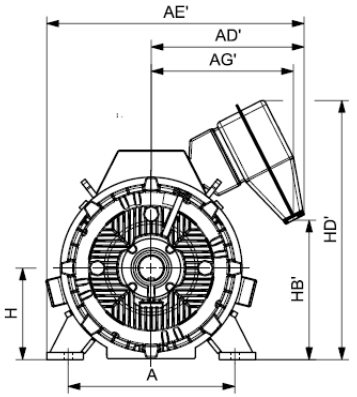

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 506-6WA80-0C.0	5800	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 508-6WA80-0A.0	6000	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 508-6WA80-0C.0	6300	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 564-6WA80-0C.0	7600	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 566-6WA80-0C.0	8100	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 568-6WA80-0C.0	8700	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
8-pole																			
1NA1 404-8WA80-0AG0	2700	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 404-8WA80-0CG0	2800	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 406-8WA80-0AG0	2900	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 406-8WA80-0CG0	3000	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 408-8WA80-0AG0	3100	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 408-8WA80-0CG0	3300	750	710	853	1160	1303	710	805	1120	254	110	165	400	o.r.	1193	o.r.	1373	1735	o.r.
1NA1 454-8WA80-0A.0	3600	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 454-8WA80-0C.0	3800	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 456-8WA80-0A.0	4000	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 456-8WA80-0C.0	4200	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 458-8WA80-0A.0	4500	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 458-8WA80-0C.0	4700	850	710	903	1225	1418	710	857	1250	280	120	165	450	o.r.	1304	o.r.	1484	2030	o.r.
1NA1 502-8WA80-0A.0	4800	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 502-8WA80-0C.0	5000	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 504-8WA80-0A.0	5100	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 504-8WA80-0C.0	5400	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 506-8WA80-0A.0	5500	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.

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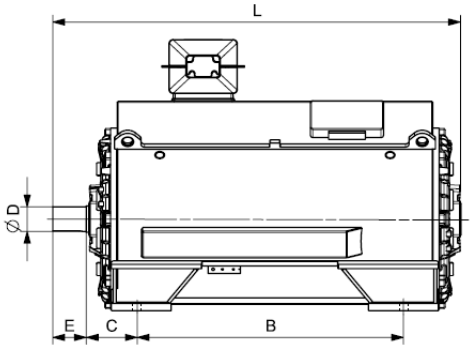

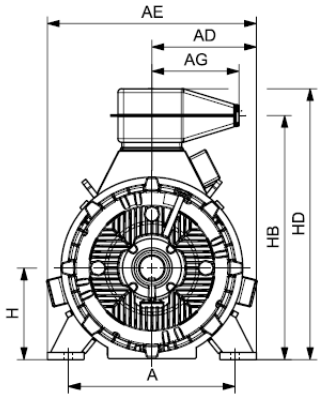

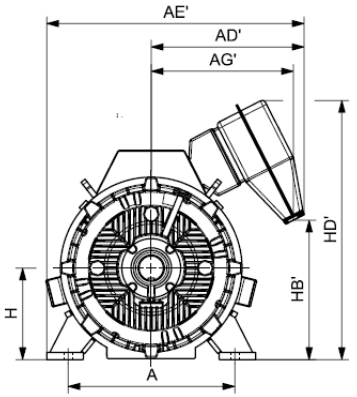

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 506-8WA80-0C.0	5800	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 508-8WA80-0A.0	6000	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 508-8WA80-0C.0	6300	950	710	933	1275	1498	710	887	1320	315	140	200	500	o.r.	1428	o.r.	1608	2175	o.r.
1NA1 564-8WA80-0C.0	7500	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 566-8WA80-0C.0	8100	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.
1NA1 568-8WA80-0C.0	8600	1060	710	966	1345	1601	710	919	1400	335	160	240	560	o.r.	1564	o.r.	1744	2346	o.r.

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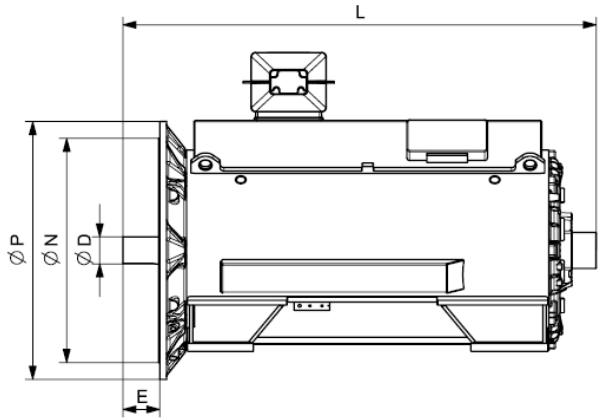

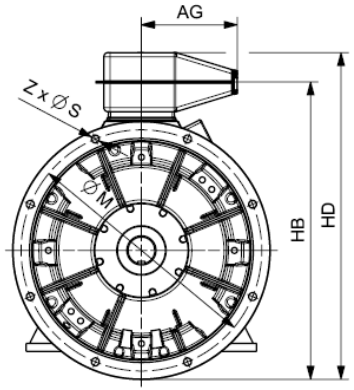

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 404-4WA88-0AG0	2900	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 404-4WA88-0CG0	3000	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 406-4WA88-0AG0	3100	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 406-4WA88-0CG0	3200	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 408-4WA88-0AG0	3300	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 408-4WA88-0CG0	3400	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 452-4WA88-0AG0	3700	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 452-4WA88-0CG0	3900	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WA88-0AG0	3900	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WA88-0CG0	4100	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WA88-0AG0	4300	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WA88-0CG0	4400	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WA88-0AG0	4600	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WA88-0CG0	4700	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WA88-0AG0	5300	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WA88-0CG0	5500	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WA88-0AG0	5700	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WA88-0CG0	5900	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WA88-0AG0	6200	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WA88-0CG0	6400	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 562-4WA88-0AG0	6700	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 562-4WA88-0CG0	7100	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16

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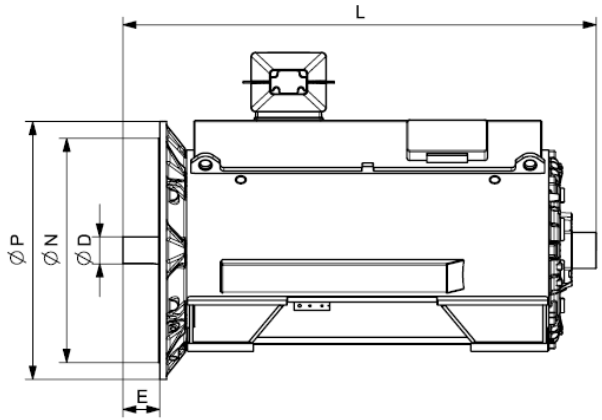

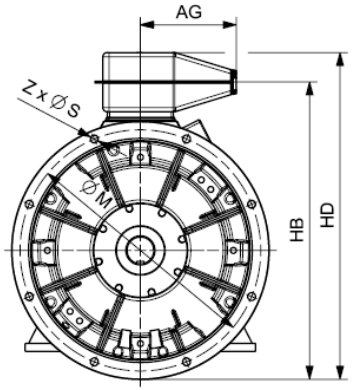

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 564-4WA88-0AG0	7200	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WA88-0CG0	7500	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WA88-0AG0	7600	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WA88-0CG0	8000	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WA88-0AG0	8100	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WA88-0CG0	8500	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
6-pole													
1NA1 404-6WA88-0AG0	2800	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 404-6WA88-0CG0	2900	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 406-6WA88-0AG0	3000	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 406-6WA88-0CG0	3200	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 408-6WA88-0AG0	3300	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 408-6WA88-0CG0	3400	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 454-6WA88-0AG0	3800	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 454-6WA88-0CG0	4000	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WA88-0AG0	4200	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WA88-0CG0	4400	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WA88-0AG0	4700	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WA88-0CG0	4900	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WA88-0AG0	5000	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WA88-0CG0	5200	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WA88-0AG0	5300	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WA88-0CG0	5600	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16

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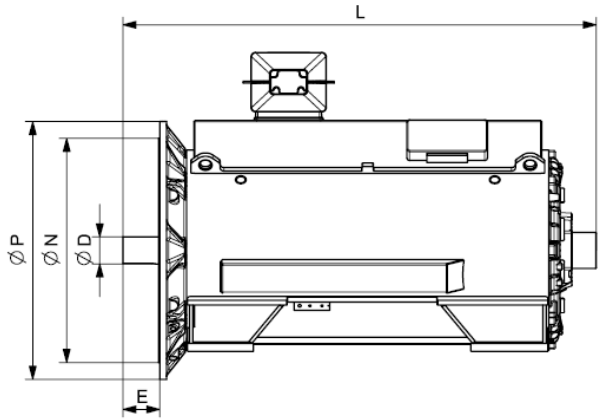

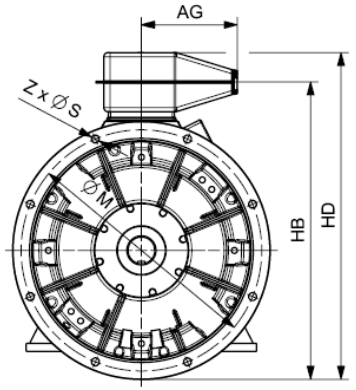

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 506-6WA88-0AG0	5700	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WA88-0CG0	6000	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WA88-0AG0	6200	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WA88-0CG0	6500	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WA88-0CG0	7900	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WA88-0CG0	8400	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WA88-0CG0	9000	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 404-8WA88-0AG0	2800	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 404-8WA88-0CG0	2900	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 406-8WA88-0AG0	3000	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 406-8WA88-0CG0	3100	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 408-8WA88-0AG0	3200	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 408-8WA88-0CG0	3300	1210	710	110	1293	1473	1735	o.r.	940	880	1000	22	8
1NA1 454-8WA88-0AG0	3800	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WA88-0CG0	4000	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WA88-0AG0	4200	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WA88-0CG0	4400	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WA88-0AG0	4600	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WA88-0CG0	4900	1285	710	120	1429	1609	2030	o.r.	1080	1000	1150	26	8
1NA1 502-8WA88-0AG0	4900	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 502-8WA88-0CG0	5100	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WA88-0AG0	5300	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16

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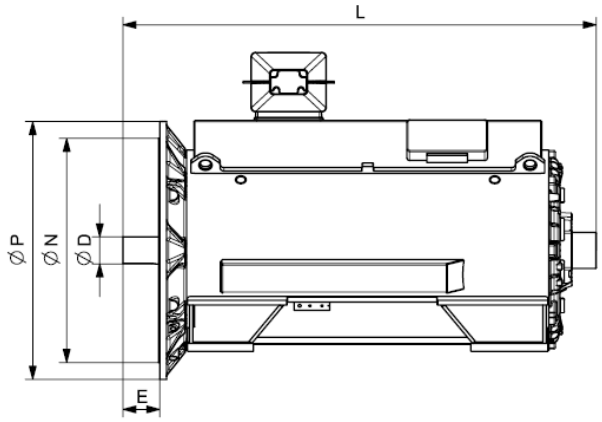

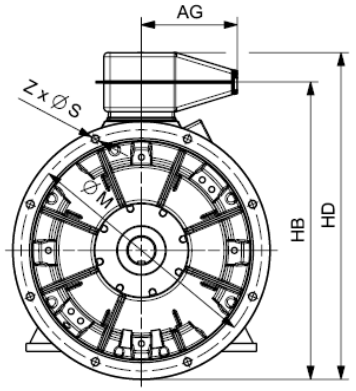

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-8WA88-0CG0	5500	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WA88-0AG0	5700	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WA88-0CG0	6000	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WA88-0AG0	6200	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WA88-0CG0	6500	1335	710	140	1553	1733	2173	o.r.	1180	1120	1250	26	16
1NA1 564-8WA88-0CG0	7800	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WA88-0CG0	8400	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WA88-0CG0	8900	1410	710	160	1704	1884	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]		kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3000 rpm at 50 Hz																		
260	**1NB1 350-2AA60-4AA0**	2978	32	94.6	95.3	95.6	94.9	0.82	0.83	0.82	0.75	834	2.40	1.10	5.1		4	40	1.00
300	**1NB1 352-2AA60-4AA0**	2981	36	95.2	95.7	96.0	95.2	0.84	0.84	0.82	0.74	961	2.65	1.30	5.7		4	55	1.00
360	**1NB1 354-2AA60-4AA0**	2980	42	95.3	96.0	96.3	95.8	0.85	0.86	0.85	0.80	1154	2.45	1.20	5.3		5	65	1.00
410	**1NB1 356-2AA60-4AA0**	2981	47	95.5	96.2	96.5	96.0	0.86	0.87	0.86	0.80	1313	2.65	1.30	5.8		5	65	1.00
460	**1NB1 358-2AA60-4AA0**	2981	52	95.7	96.4	96.7	96.3	0.87	0.88	0.87	0.81	1474	2.70	1.35	5.9		6	75	1.00
670	**1NB1 402-2AA60-4C.0**	2978	75	96.0	96.3	96.5	96.2	0.89	0.89	0.87	0.83	2148	2.75	1.00	6.0		12	115	1.00
650	**1NB1 402-2AA60-4A.0**	2978	76	95.9	96.3	96.5	96.1	0.86	0.86	0.86	0.81	2084	2.35	0.95	5.0		9	50	1.00
720	**1NB1 404-2AA60-4A.0**	2978	83	96.1	96.4	96.6	96.3	0.86	0.87	0.86	0.82	2309	2.35	1.00	5.0		10	50	1.00
730	**1NB1 404-2AA60-4C.0**	2978	83	96.1	96.5	96.6	96.3	0.88	0.88	0.87	0.83	2341	2.45	0.75	5.4		12	95	1.00
810	**1NB1 406-2AA60-4A.0**	2980	92	96.3	96.6	96.8	96.5	0.87	0.88	0.87	0.82	2596	2.55	1.10	5.5		11	50	1.00
820	**1NB1 406-2AA60-4C.0**	2980	92	96.3	96.6	96.8	96.5	0.89	0.89	0.87	0.82	2628	2.65	0.80	5.9		14	115	1.00
860	**1NB1 452-2AA60-4A.0**	2982	97	96.4	96.8	96.9	96.6	0.87	0.88	0.87	0.84	2754	2.30	1.05	5.4		13	30	0.95
860	**1NB1 452-2AA60-4C.0**	2980	96	96.3	96.7	96.8	96.5	0.89	0.89	0.89	0.85	2756	2.50	0.80	5.7		16	115	1.00
910	**1NB1 454-2AA60-4A.0**	2983	102	96.5	96.9	97.0	96.7	0.88	0.89	0.88	0.84	2913	2.40	1.25	5.7		15	40	1.00
910	**1NB1 454-2AA60-4C.0**	2982	100	96.5	96.8	96.9	96.6	0.90	0.90	0.89	0.85	2914	2.60	0.90	6.0		18	150	1.00
1010	**1NB1 456-2AA60-4A.0**	2984	112	96.7	97.0	97.1	96.8	0.89	0.90	0.89	0.85	3232	2.60	1.25	6.0		16	35	1.00
1010	**1NB1 456-2AA60-4C.0**	2982	110	96.6	96.9	97.0	96.7	0.91	0.91	0.90	0.85	3234	2.75	0.90	6.4		20	150	1.00
1150	**1NB1 502-2AA60-4A.0**	2986	130	96.6	96.8	96.8	96.3	0.88	0.88	0.87	0.82	3678	2.70	0.75	5.9		21	60	0.95
1170	**1NB1 502-2AA60-4C.0**	2986	130	96.6	96.8	96.7	96.1	0.90	0.90	0.88	0.83	3742	3.00	0.75	6.3		27	150	1.00
1300	**1NB1 504-2AA60-4A.0**	2986	146	96.8	97.0	97.1	96.6	0.88	0.88	0.88	0.84	4157	2.65	0.80	5.8		23	70	0.90
1320	**1NB1 504-2AA60-4C.0**	2986	146	96.8	97.0	96.9	96.4	0.90	0.90	0.89	0.84	4221	2.90	0.75	6.3		30	150	1.00
1410	**1NB1 506-2AA60-4A.0**	2986	156	97.0	97.2	97.2	96.8	0.89	0.89	0.89	0.85	4509	2.75	0.85	6.0		27	90	0.95
1450	**1NB1 506-2AA60-4C.0**	2987	158	96.9	97.1	97.1	96.7	0.90	0.91	0.90	0.86	4636	2.95	0.75	6.4		33	200	1.00
1600	**1NB1 564-2AA60-4C.0**	2988	174	97.0	97.1	97.1	96.5	0.90	0.91	0.90	0.88	5113	2.60	0.65	5.7		50	300	0.85
1800	**1NB1 566-2AA60-4C.0**	2989	196	97.2	97.3	97.3	96.8	0.91	0.91	0.91	0.88	5751	2.75	0.65	6.1		55	300	0.90
4-pole: n_{sync} = 1500 rpm at 50 Hz																		
260	**1NB1 350-4AA60-4AA0**	1486	33	94.8	95.3	95.5	94.9	0.81	0.80	0.74	0.68	1671	2.80	1.40	5.8		5	350	1.00
280	**1NB1 352-4AA60-4AA0**	1488	35	95.2	95.6	95.6	95.1	0.82	0.81	0.74	0.67	1797	3.05	1.55	6.3		5	450	1.00
340	**1NB1 354-4AA60-4AA0**	1487	42	95.2	95.7	95.9	95.4	0.83	0.82	0.76	0.70	2183	2.90	1.50	6.1		6	450	1.00
400	**1NB1 356-4AA60-4AA0**	1488	48	95.5	95.9	96.1	95.7	0.84	0.83	0.76	0.71	2567	3.00	1.55	6.3		7	550	1.00
500	**1NB1 358-4AA60-4AA0**	1488	60	95.7	96.2	96.4	96.1	0.85	0.84	0.77	0.73	3209	3.00	1.60	6.3		8	500	1.00
650	**1NB1 404-4AA60-4C.0**	1488	76	95.9	96.3	96.5	96.3	0.85	0.85	0.84	0.78	4171	2.65	0.75	5.4		15	500	1.00
680	**1NB1 404-4AA60-4A.0**	1487	81	95.7	96.2	96.5	96.3	0.84	0.84	0.83	0.78	4367	2.30	1.10	4.7		12	250	1.00
750	**1NB1 406-4AA60-4C.0**	1488	87	96.0	96.4	96.7	96.5	0.86	0.86	0.85	0.79	4813	2.55	0.75	5.2		17	500	1.00
750	**1NB1 406-4AA60-4A.0**	1487	88	95.8	96.3	96.6	96.4	0.84	0.85	0.84	0.79	4816	2.30	1.10	4.8		13	250	1.00
850	**1NB1 452-4AA60-4A.0**	1489	102	96.0	96.5	96.7	96.4	0.83	0.83	0.81	0.75	5451	2.20	1.05	5.0		20	350	1.00

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SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
850	**1NB1 452-4AA60-4C.0**	1490	100	96.1	96.5	96.7	96.3	0.85	0.85	0.83	0.76	5448	2.40	0.70	5.5	25	600	1.00
920	**1NB1 454-4AA60-4A.0**	1490	110	96.2	96.6	96.8	96.5	0.82	0.83	0.81	0.74	5896	2.30	1.05	5.2	22	400	1.00
950	**1NB1 454-4AA60-4C.0**	1490	112	96.2	96.6	96.8	96.5	0.84	0.84	0.82	0.76	6088	2.40	0.65	5.5	28	650	1.00
1050	**1NB1 456-4AA60-4A.0**	1490	126	96.4	96.8	97.0	96.7	0.83	0.83	0.81	0.75	6729	2.35	1.10	5.3	25	450	1.00
1060	**1NB1 456-4AA60-4C.0**	1491	124	96.5	96.8	97.0	96.6	0.85	0.85	0.83	0.76	6789	2.55	0.70	5.8	32	800	1.00
1120	**1NB1 502-4AA60-4A.0**	1489	134	95.9	96.3	96.5	96.1	0.83	0.84	0.83	0.79	7183	2.00	0.80	4.6	29	450	0.80
1150	**1NB1 502-4AA60-4C.0**	1490	136	96.1	96.4	96.6	96.2	0.84	0.85	0.85	0.80	7370	2.05	0.60	5.0	37	600	0.95
1320	**1NB1 504-4AA60-4A.0**	1491	154	96.4	96.6	96.7	96.3	0.84	0.85	0.83	0.77	8454	2.30	0.95	5.2	33	400	0.95
1360	**1NB1 504-4AA60-4C.0**	1492	158	96.5	96.7	96.8	96.4	0.86	0.86	0.85	0.79	8704	2.40	0.70	5.7	42	750	1.00
1500	**1NB1 506-4AA60-4A.0**	1491	176	96.6	96.8	96.9	96.5	0.84	0.85	0.84	0.77	9607	2.35	0.95	5.3	38	400	1.00
1550	**1NB1 506-4AA60-4C.0**	1492	178	96.7	96.9	97.0	96.6	0.85	0.86	0.85	0.79	9921	2.40	0.70	5.8	48	900	1.00
1560	**1NB1 560-4AA60-4C.0**	1491	180	96.4	96.7	96.7	96.2	0.83	0.86	0.85	0.81	9991	2.00	0.60	5.0	65	750	0.90
1550	**1NB1 560-4AA60-4A.0**	1492	184	96.3	96.6	96.6	96.1	0.82	0.84	0.83	0.79	9921	1.95	0.80	4.8	49	600	0.80
1810	**1NB1 562-4AA60-4A.0**	1493	210	96.8	97.0	96.9	96.3	0.83	0.85	0.83	0.77	11577	2.25	0.95	5.5	55	500	1.00
1850	**1NB1 562-4AA60-4C.0**	1492	215	96.8	97.0	97.0	96.5	0.85	0.86	0.85	0.79	11841	2.25	0.70	5.8	72	950	1.00
2010	**1NB1 564-4AA60-4A.0**	1493	235	97.0	97.2	97.1	96.5	0.84	0.85	0.83	0.76	12856	2.30	0.95	5.7	60	550	1.00
2050	**1NB1 564-4AA60-4C.0**	1493	235	97.0	97.2	97.2	96.7	0.85	0.86	0.85	0.79	13112	2.35	0.65	6.0	79	1100	1.00
2200	**1NB1 566-4AA60-4A.0**	1493	255	97.1	97.3	97.2	96.7	0.85	0.86	0.84	0.78	14071	2.40	1.00	5.9	67	550	1.00
2200	**1NB1 566-4AA60-4C.0**	1493	250	97.2	97.3	97.3	96.8	0.86	0.87	0.86	0.80	14071	2.50	0.75	6.3	88	1400	1.00
6-pole: n_{sync} = 1000 rpm at 50 Hz																		
200	**1NB1 352-6AA60-4AA0**	994	26	95.3	95.6	95.8	95.2	0.79	0.76	0.65	0.58	1921	3.45	1.65	6.8	11	650	1.00
250	**1NB1 354-6AA60-4AA0**	992	32	95.4	96.0	96.4	96.2	0.79	0.78	0.69	0.62	2407	2.90	1.35	6.0	11	650	1.00
300	**1NB1 356-6AA60-4AA0**	992	38	95.5	96.1	96.5	96.5	0.80	0.79	0.70	0.65	2888	2.85	1.35	5.9	13	700	1.00
360	**1NB1 358-6AA60-4AA0**	992	46	95.7	96.2	96.7	96.6	0.81	0.79	0.70	0.64	3465	2.95	1.35	6.1	15	900	1.00
600	**1NB1 404-6AA60-4C.0**	993	73	95.7	96.1	96.3	95.9	0.83	0.82	0.78	0.69	5770	2.60	0.90	5.4	27	700	1.00
600	**1NB1 404-6AA60-4A.0**	992	75	95.5	96.1	96.4	96.1	0.80	0.80	0.77	0.69	5776	2.55	1.25	5.5	22	800	1.00
630	**1NB1 406-6AA60-4C.0**	994	77	95.8	96.2	96.4	95.9	0.83	0.82	0.78	0.69	6052	2.75	0.95	5.7	31	800	1.00
630	**1NB1 406-6AA60-4A.0**	993	78	95.7	96.2	96.4	96.1	0.81	0.81	0.77	0.68	6058	2.70	1.35	5.9	25	900	1.00
630	**1NB1 452-6AA60-4A.0**	992	79	95.5	96.1	96.4	96.2	0.79	0.80	0.79	0.73	6065	2.10	1.00	5.0	28	1250	1.00
650	**1NB1 452-6AA60-4C.0**	992	77	95.7	96.2	96.4	96.3	0.83	0.84	0.82	0.76	6257	2.20	0.70	4.7	36	950	1.00
710	**1NB1 454-6AA60-4A.0**	993	89	95.8	96.3	96.5	96.2	0.80	0.80	0.79	0.72	6828	2.20	1.05	5.4	32	1800	1.00
720	**1NB1 454-6AA60-4C.0**	993	87	96.0	96.4	96.6	96.3	0.84	0.83	0.81	0.74	6924	2.40	0.70	5.1	41	1400	1.00
780	**1NB1 456-6AA60-4A.0**	994	96	96.1	96.5	96.5	96.2	0.82	0.81	0.78	0.70	7493	2.50	1.25	6.0	37	1950	1.00
800	**1NB1 456-6AA60-4C.0**	994	95	96.2	96.5	96.6	96.2	0.84	0.84	0.80	0.72	7686	2.65	0.85	5.6	47	1450	1.00
800	**1NB1 500-6AA60-4A.0**	993	98	95.7	96.2	96.5	96.4	0.81	0.82	0.80	0.75	7693	2.05	1.15	5.4	47	1650	0.95
880	**1NB1 500-6AA60-4C.0**	994	102	95.9	96.4	96.6	96.4	0.86	0.86	0.84	0.79	8454	2.25	0.65	5.5	60	900	1.00
1000	**1NB1 502-6AA60-4A.0**	993	122	96.0	96.5	96.8	96.6	0.82	0.82	0.80	0.74	9617	2.15	1.20	5.6	53	900	1.00

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SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque		Locked rotor current		Inertia		
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R		I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]		[-]		kgm^2	kgm^2	[-]
1070	**1NB1 502-6AA60-4C.0**	994	124	96.3	96.7	96.9	96.7	0.86	0.86	0.84	0.78	10279	2.40	0.70		5.8		68	1150	1.00
1070	**1NB1 504-6AA60-4A.0**	994	130	96.1	96.6	96.8	96.6	0.82	0.82	0.80	0.74	10279	2.30	1.35		6.0		60	1200	1.00
1150	**1NB1 504-6AA60-4C.0**	995	132	96.4	96.8	96.9	96.7	0.87	0.86	0.84	0.77	11037	2.60	0.75		6.3		76	1300	1.00
1220	**1NB1 506-6AA60-4A.0**	994	148	96.4	96.8	97.0	96.8	0.83	0.82	0.80	0.74	11720	2.35	1.35		6.1		68	1200	1.00
1300	**1NB1 506-6AA60-4C.0**	995	150	96.7	97.0	97.1	96.9	0.87	0.86	0.84	0.77	12476	2.65	0.75		6.4		86	1850	1.00
1600	**1NB1 562-6AA60-4C.0**	994	182	96.8	97.1	97.3	97.1	0.87	0.87	0.86	0.82	15371	2.45	0.55		5.0		120	1900	0.95
1760	**1NB1 564-6AA60-4C.0**	995	200	96.9	97.2	97.4	97.1	0.87	0.87	0.86	0.81	16891	2.60	0.60		5.4		137	2500	1.00
1950	**1NB1 566-6AA60-4C.0**	995	220	97.1	97.4	97.4	97.2	0.87	0.87	0.85	0.80	18715	2.80	0.60		5.8		152	3100	1.00
8-pole: n_{sync} = 750 rpm at 50 Hz																				
160	**1NB1 354-8AA60-4AA0**	740	21	93.6	94.6	95.3	95.5	0.79	0.77	0.68	0.62	2065	2.75	1.00		5.1		10	550	1.00
200	**1NB1 356-8AA60-4AA0**	741	26	93.9	94.7	95.3	95.5	0.80	0.78	0.68	0.62	2577	2.90	1.10		5.4		12	650	1.00
250	**1NB1 358-8AA60-4AA0**	742	33	94.4	95.1	95.6	95.6	0.79	0.77	0.66	0.59	3217	3.20	1.15		5.7		15	1050	1.00
430	**1NB1 404-8AA60-4A.0**	742	55	95.0	95.6	95.9	95.6	0.80	0.79	0.75	0.65	5534	2.50	1.05		5.0		22	1550	1.00
440	**1NB1 404-8AA60-4C.0**	743	56	95.2	95.7	95.8	95.4	0.81	0.79	0.74	0.63	5655	2.20	0.85		4.3		27	1150	1.00
460	**1NB1 406-8AA60-4A.0**	742	58	95.1	95.7	96.0	95.7	0.81	0.80	0.76	0.66	5920	2.50	1.10		5.1		25	1700	1.00
460	**1NB1 406-8AA60-4C.0**	744	58	95.3	95.8	95.9	95.4	0.81	0.79	0.75	0.64	5904	2.30	0.85		4.4		31	1350	1.00
560	**1NB1 452-8AA60-4A.0**	741	73	94.6	95.5	96.0	96.0	0.76	0.77	0.77	0.72	7217	1.80	0.80		3.8		28	1650	1.00
560	**1NB1 452-8AA60-4C.0**	742	70	94.9	95.7	96.0	95.8	0.80	0.81	0.79	0.72	7207	1.85	0.60		3.6		36	1500	0.90
600	**1NB1 454-8AA60-4A.0**	742	77	95.1	95.8	96.1	95.9	0.79	0.78	0.76	0.69	7722	2.05	0.95		4.4		32	2050	1.00
610	**1NB1 454-8AA60-4C.0**	743	77	95.2	95.9	96.1	95.8	0.81	0.80	0.78	0.70	7840	2.05	0.70		4.0		41	1500	1.00
650	**1NB1 456-8AA60-4A.0**	743	83	95.3	95.9	96.2	96.0	0.79	0.79	0.77	0.71	8354	2.10	1.00		4.5		37	2350	1.00
650	**1NB1 456-8AA60-4C.0**	743	80	95.4	96.0	96.2	95.9	0.81	0.81	0.78	0.71	8354	2.10	0.75		4.1		47	1800	1.00
710	**1NB1 502-8AA60-4C.0**	745	85	95.5	95.9	95.8	95.4	0.85	0.84	0.80	0.71	9101	2.50	0.75		5.5		67	2150	1.00
690	**1NB1 502-8AA60-4A.0**	744	87	95.4	95.9	96.0	95.7	0.80	0.80	0.77	0.69	8856	2.25	0.75		5.4		52	2800	1.00
760	**1NB1 504-8AA60-4A.0**	745	95	95.5	96.0	96.0	95.7	0.81	0.80	0.77	0.68	9742	2.35	0.80		5.7		59	2750	1.00
780	**1NB1 504-8AA60-4C.0**	745	93	95.6	95.9	95.8	95.3	0.85	0.84	0.80	0.71	9998	2.65	0.80		5.8		76	2450	1.00
850	**1NB1 506-8AA60-4A.0**	745	106	95.7	96.1	96.1	95.7	0.81	0.80	0.76	0.66	10895	2.60	0.95		6.2		66	3250	1.00
850	**1NB1 506-8AA60-4C.0**	746	102	95.8	96.0	95.8	95.2	0.85	0.83	0.78	0.68	10881	2.95	0.90		6.4		85	3050	1.00
1120	**1NB1 562-8AA60-4C.0**	745	132	96.3	96.7	96.9	96.6	0.84	0.84	0.81	0.74	14356	2.45	0.65		4.8		120	4300	1.00
1220	**1NB1 564-8AA60-4C.0**	745	142	96.4	96.8	97.0	96.8	0.85	0.85	0.83	0.76	15638	2.30	0.60		4.6		136	4250	0.95
1350	**1NB1 566-8AA60-4C.0**	745	160	96.6	96.9	97.1	96.8	0.85	0.84	0.82	0.75	17304	2.50	0.60		5.0		152	6050	1.00

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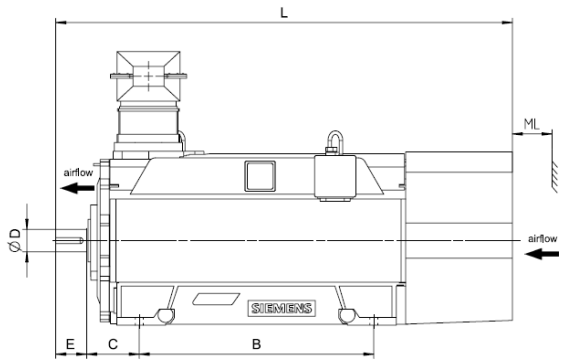

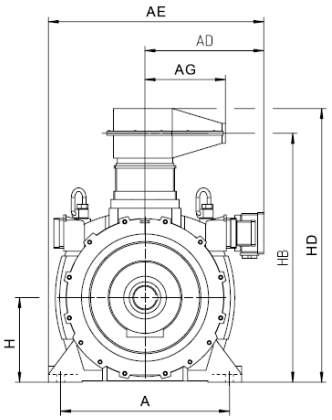

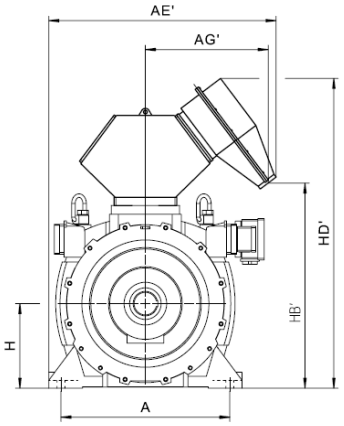

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 350-2AA60-4AA0	2500	630	525	767	915	1157	525	729	800	254	75	105	355	o.r.	1166	o.r.	1292	1807	150
1NB1 352-2AA60-4AA0	2600	630	525	767	915	1157	525	729	800	254	75	105	355	o.r.	1166	o.r.	1292	1807	150
1NB1 354-2AA60-4AA0	2900	630	525	767	915	1157	525	729	1000	254	75	105	355	o.r.	1166	o.r.	1292	2067	150
1NB1 356-2AA60-4AA0	3000	630	525	767	915	1157	525	729	1000	254	75	105	355	o.r.	1166	o.r.	1292	2067	150
1NB1 358-2AA60-4AA0	3100	630	525	767	915	1157	525	729	1000	254	75	105	355	o.r.	1166	o.r.	1292	2067	150
1NB1 402-2AA60-4C.0	3900	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 402-2AA60-4A.0	3800	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 404-2AA60-4A.0	4000	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 404-2AA60-4C.0	4100	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 406-2AA60-4A.0	4100	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 406-2AA60-4C.0	4200	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 452-2AA60-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	95	130	450	o.r.	1329	o.r.	1456	2289	180
1NB1 452-2AA60-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	95	130	450	o.r.	1329	o.r.	1456	2289	180
1NB1 454-2AA60-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	95	130	450	o.r.	1329	o.r.	1456	2289	180
1NB1 454-2AA60-4C.0	5200	900	557	737	1072	1252	525	693	1250	280	95	130	450	o.r.	1329	o.r.	1456	2289	180
1NB1 456-2AA60-4A.0	5300	900	557	737	1072	1252	525	693	1250	280	95	130	450	o.r.	1329	o.r.	1456	2289	180
1NB1 456-2AA60-4C.0	5500	900	557	737	1072	1252	525	693	1250	280	95	130	450	o.r.	1329	o.r.	1456	2289	180
1NB1 502-2AA60-4A.0	6400	1000	629	737	1194	1302	525	693	1320	315	110	165	500	o.r.	1440	o.r.	1567	2457	200
1NB1 502-2AA60-4C.0	6600	1000	629	737	1194	1302	525	693	1320	315	110	165	500	o.r.	1440	o.r.	1567	2457	200
1NB1 504-2AA60-4A.0	6700	1000	629	737	1194	1302	525	693	1320	315	110	165	500	o.r.	1440	o.r.	1567	2457	200
1NB1 504-2AA60-4C.0	6900	1000	629	737	1194	1302	525	693	1320	315	110	165	500	o.r.	1440	o.r.	1567	2457	200
1NB1 506-2AA60-4A.0	7200	1000	629	737	1194	1302	525	693	1320	315	110	165	500	o.r.	1440	o.r.	1567	2457	200

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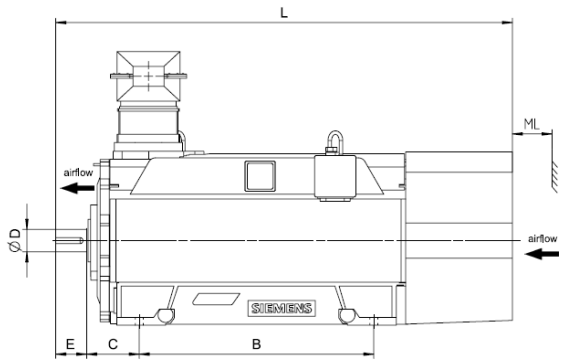

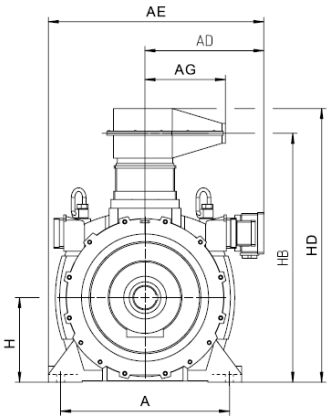

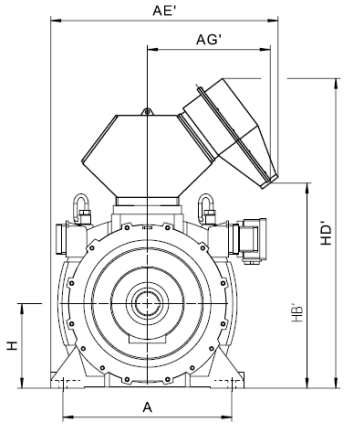

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 506-2AA60-4C.0	7300	1000	629	737	1194	1302	525	693	1320	315	110	165	500	o.r.	1440	o.r.	1567	2457	200
1NB1 564-2AA60-4C.0	8900	1120	684	737	1319	1372	525	693	1400	335	120	165	560	o.r.	1565	o.r.	1691	2628	225
1NB1 566-2AA60-4C.0	9400	1120	684	737	1319	1372	525	693	1400	335	120	165	560	o.r.	1565	o.r.	1691	2628	225
4-pole																			
1NB1 350-4AA60-4AA0	2500	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150
1NB1 352-4AA60-4AA0	2600	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150
1NB1 354-4AA60-4AA0	3000	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 356-4AA60-4AA0	3100	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 358-4AA60-4AA0	3400	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 404-4AA60-4C.0	4200	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 404-4AA60-4A.0	4100	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-4AA60-4C.0	4400	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-4AA60-4A.0	4300	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 452-4AA60-4A.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 452-4AA60-4C.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-4AA60-4A.0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-4AA60-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-4AA60-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-4AA60-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 502-4AA60-4A.0	6400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 502-4AA60-4C.0	6600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-4AA60-4A.0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-4AA60-4C.0	7000	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200

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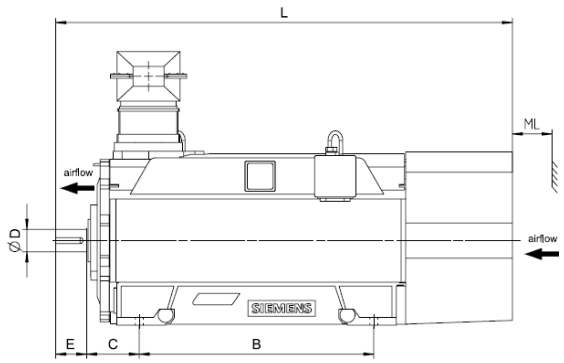

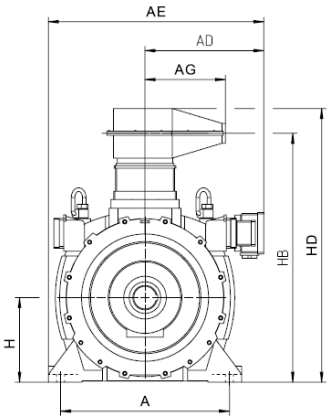

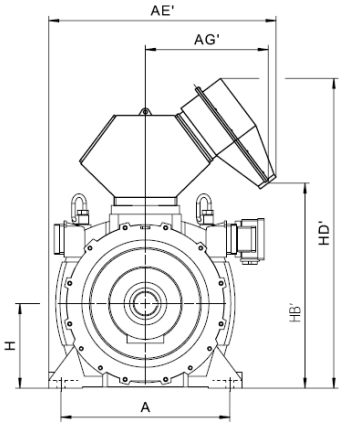

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 506-4AA60-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-4AA60-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 560-4AA60-4C.0	8600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 560-4AA60-4A.0	8300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 562-4AA60-4A.0	8700	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 562-4AA60-4C.0	9100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 564-4AA60-4A.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 564-4AA60-4C.0	9500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 566-4AA60-4A.0	9700	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 566-4AA60-4C.0	10000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
6-pole																			
1NB1 352-6AA60-4AA0	2800	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150
1NB1 354-6AA60-4AA0	2800	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150
1NB1 356-6AA60-4AA0	3200	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 358-6AA60-4AA0	3400	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 404-6AA60-4C.0	4300	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 404-6AA60-4A.0	4200	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-6AA60-4C.0	4600	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-6AA60-4A.0	4400	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 452-6AA60-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 452-6AA60-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-6AA60-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-6AA60-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180

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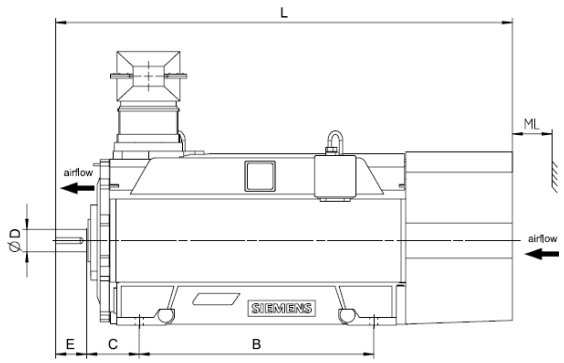

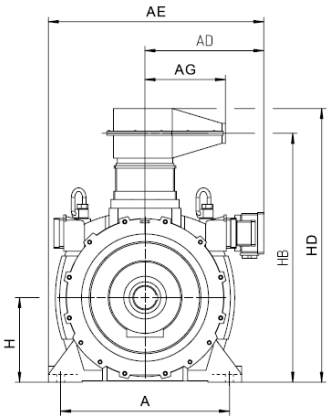

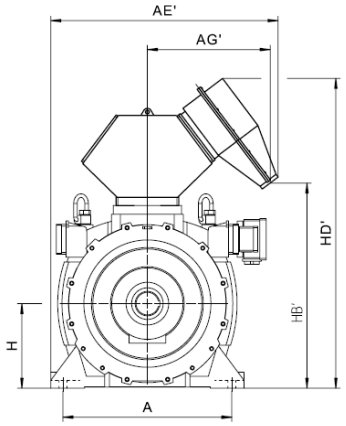

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 456-6AA60-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-6AA60-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 500-6AA60-4A.0	6200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 500-6AA60-4C.0	6400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 502-6AA60-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 502-6AA60-4C.0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-6AA60-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-6AA60-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-6AA60-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-6AA60-4C.0	7600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 562-6AA60-4C.0	9300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 564-6AA60-4C.0	9900	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 566-6AA60-4C.0	10500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
8-pole																			
1NB1 354-8AA60-4AA0	2800	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150
1NB1 356-8AA60-4AA0	3200	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 358-8AA60-4AA0	3400	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 404-8AA60-4A.0	4100	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 404-8AA60-4C.0	4300	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-8AA60-4A.0	4400	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-8AA60-4C.0	4500	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 452-8AA60-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 452-8AA60-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180

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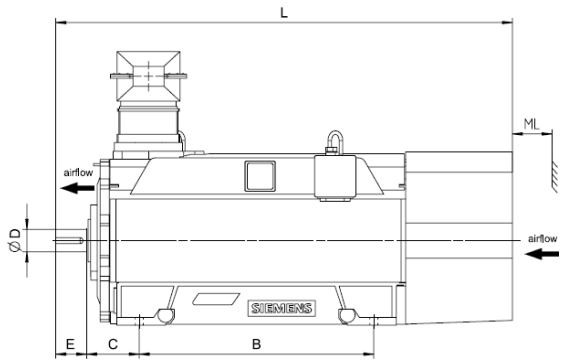

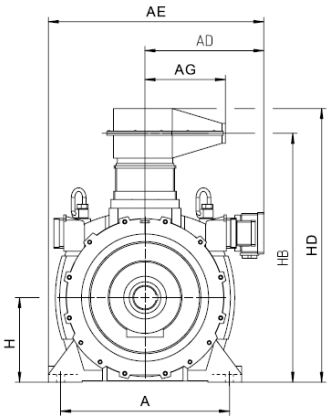

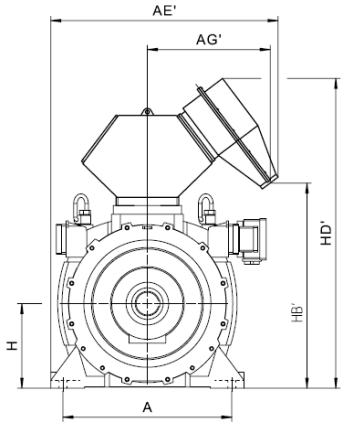

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 454-8AA60-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-8AA60-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-8AA60-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-8AA60-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 502-8AA60-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 502-8AA60-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-8AA60-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-8AA60-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-8AA60-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-8AA60-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 562-8AA60-4C.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 564-8AA60-4C.0	9800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 566-8AA60-4C.0	10400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225

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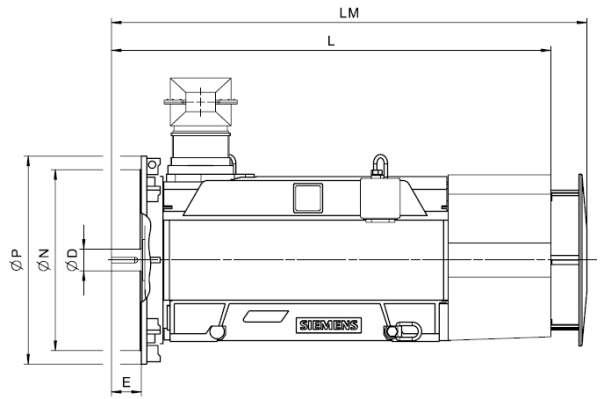

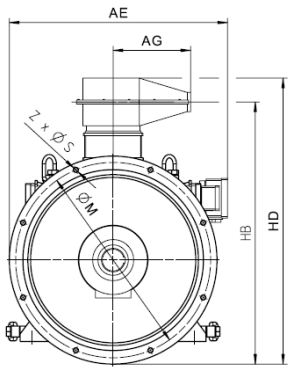

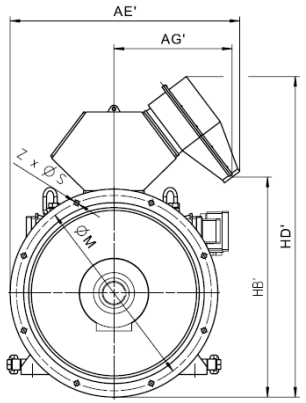

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
2-pole													
1NB1 350-2AA64-4AA0	2500	925	525	75	1211	1337	1807	2036	740	680	800	24	8
1NB1 352-2AA64-4AA0	2600	925	525	75	1211	1337	1807	2036	740	680	800	24	8
1NB1 354-2AA64-4AA0	3000	925	525	75	1211	1337	2067	2296	740	680	800	24	8
1NB1 356-2AA64-4AA0	3100	925	525	75	1211	1337	2067	2296	740	680	800	24	8
1NB1 358-2AA64-4AA0	3200	925	525	75	1211	1337	2067	2296	740	680	800	24	8
1NB1 402-2AA64-4CA0	4100	1041	525	85	1337	1463	2147	2347	940	880	1000	24	8
1NB1 402-2AA64-4AA0	4000	1041	525	85	1337	1463	2147	2347	940	880	1000	24	8
1NB1 404-2AA64-4AA0	4100	1041	525	85	1337	1463	2147	2347	940	880	1000	24	8
1NB1 404-2AA64-4CA0	4200	1041	525	85	1337	1463	2147	2347	940	880	1000	24	8
1NB1 406-2AA64-4AA0	4300	1041	525	85	1337	1463	2147	2347	940	880	1000	24	8
1NB1 406-2AA64-4CA0	4400	1041	525	85	1337	1463	2147	2347	940	880	1000	24	8
4-pole													
1NB1 350-4AA64-4AA0	2600	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 352-4AA64-4AA0	2700	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 354-4AA64-4AA0	3000	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 356-4AA64-4AA0	3200	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 358-4AA64-4AA0	3400	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 404-4AA64-4CA0	4300	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 404-4AA64-4AA0	4200	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-4AA64-4CA0	4600	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-4AA64-4AA0	4400	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 452-4AA64-4AA0	5200	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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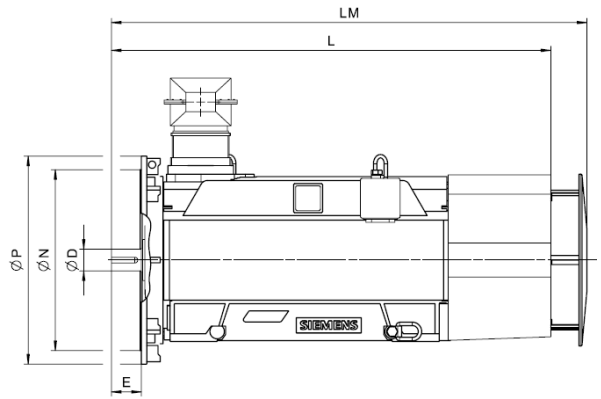

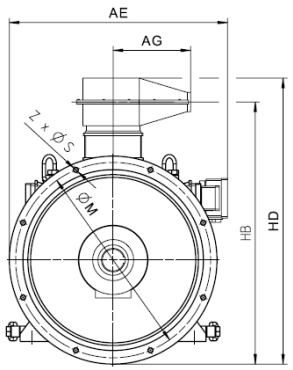

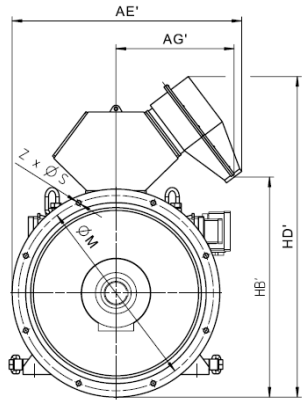

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 452-4AA64-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AA64-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AA64-4CA0	5600	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AA64-4AA0	5800	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AA64-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 502-4AA64-4AA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-4AA64-4CA0	6900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AA64-4AA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AA64-4CA0	7300	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AA64-4AA0	7600	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AA64-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 560-4AA64-4CA0	8900	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 560-4AA64-4AA0	8700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AA64-4AA0	9100	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AA64-4CA0	9400	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AA64-4AA0	9600	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AA64-4CA0	9900	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AA64-4AA0	10000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AA64-4CA0	10400	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
6-pole													
1NB1 352-6AA64-4AA0	2900	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 354-6AA64-4AA0	2900	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 356-6AA64-4AA0	3300	925	525	100	1211	1337	2187	2416	740	680	800	24	8

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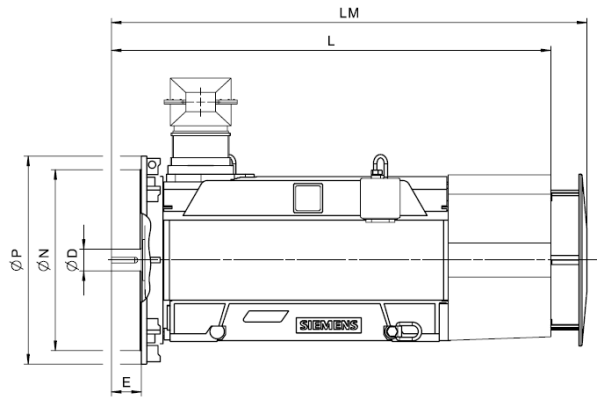

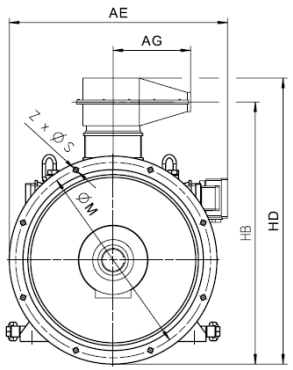

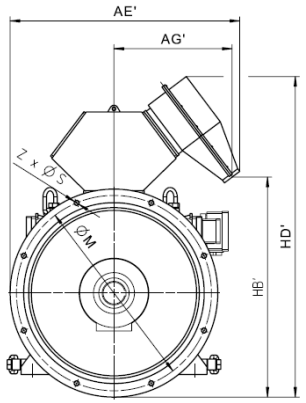

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 358-6AA64-4AA0	3500	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 404-6AA64-4CA0	4500	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 404-6AA64-4AA0	4400	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-6AA64-4CA0	4800	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-6AA64-4AA0	4600	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 452-6AA64-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-6AA64-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AA64-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AA64-4CA0	5500	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AA64-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AA64-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 500-6AA64-4AA0	6500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 500-6AA64-4CA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AA64-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AA64-4CA0	7000	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AA64-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AA64-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AA64-4AA0	7600	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AA64-4CA0	7900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-6AA64-4CA0	9600	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-6AA64-4CA0	10300	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-6AA64-4CA0	10800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
8-pole													

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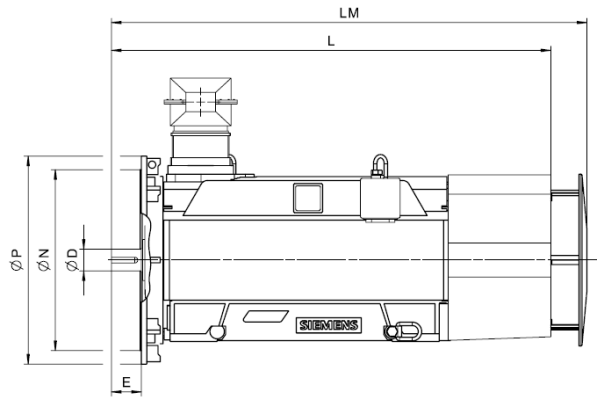

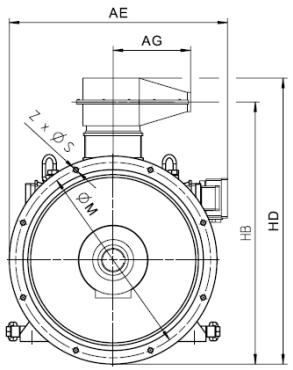

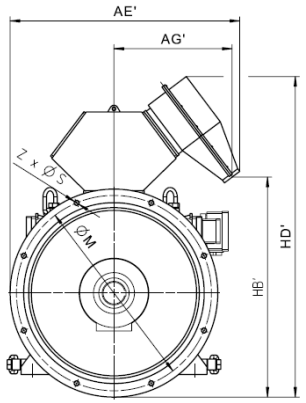

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 354-8AA64-4AA0	2800	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 356-8AA64-4AA0	3300	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 358-8AA64-4AA0	3500	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 404-8AA64-4AA0	4300	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 404-8AA64-4CA0	4500	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-8AA64-4AA0	4600	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-8AA64-4CA0	4700	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 452-8AA64-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-8AA64-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AA64-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AA64-4CA0	5500	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AA64-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AA64-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 502-8AA64-4CA0	7000	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-8AA64-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AA64-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AA64-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AA64-4AA0	7600	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AA64-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-8AA64-4CA0	9500	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-8AA64-4CA0	10200	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-8AA64-4CA0	10800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]		kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3600 rpm at 60 Hz																		
280	**1NB1 350-2AA10-4AA0**	3578	31	94.5	95.1	95.2	94.1	0.81	0.83	0.83	0.78	747	2.20	1.05	4.9		4	25	1.00
330	**1NB1 352-2AA10-4AA0**	3579	36	95.0	95.5	95.6	94.6	0.83	0.84	0.84	0.79	880	2.35	1.20	5.4		4	35	1.00
400	**1NB1 354-2AA10-4AA0**	3578	42	95.2	95.8	96.0	95.3	0.84	0.86	0.86	0.82	1068	2.20	1.10	4.9		5	35	1.00
450	**1NB1 356-2AA10-4AA0**	3579	46	95.5	96.1	96.2	95.5	0.86	0.88	0.87	0.83	1201	2.40	1.20	5.4		5	40	1.00
500	**1NB1 358-2AA10-4AA0**	3580	52	95.7	96.3	96.5	95.9	0.87	0.88	0.88	0.83	1334	2.50	1.25	5.6		6	50	1.00
800	**1NB1 402-2AA10-4C.0**	3576	84	96.0	96.2	96.3	95.7	0.87	0.87	0.86	0.82	2136	2.35	0.65	5.2		11	45	1.00
800	**1NB1 402-2AA10-4A.0**	3578	85	96.0	96.2	96.3	95.7	0.85	0.86	0.85	0.81	2135	2.20	0.95	4.9		9	20	0.70
820	**1NB1 404-2AA10-4C.0**	3577	84	96.1	96.3	96.4	95.8	0.89	0.89	0.88	0.83	2189	2.50	0.65	5.6		12	60	1.00
820	**1NB1 404-2AA10-4A.0**	3579	85	96.1	96.3	96.3	95.8	0.87	0.88	0.87	0.83	2188	2.40	1.00	5.3		10	20	0.80
920	**1NB1 406-2AA10-4A.0**	3579	95	96.2	96.5	96.5	96.0	0.88	0.88	0.87	0.84	2455	2.45	1.10	5.3		11	20	0.90
920	**1NB1 406-2AA10-4C.0**	3577	94	96.2	96.5	96.6	96.1	0.89	0.89	0.88	0.84	2456	2.50	0.70	5.6		14	65	1.00
1000	**1NB1 452-2AA10-4CC0**	3578	102	96.2	96.5	96.5	96.0	0.88	0.89	0.89	0.86	2669	2.20	0.75	5.2		17	70	0.90
1120	**1NB1 454-2AA10-4C.0**	3579	112	96.4	96.7	96.8	96.3	0.89	0.90	0.89	0.86	2988	2.25	0.75	5.3		19	70	0.95
1170	**1NB1 456-2AA10-4C.0**	3580	118	96.6	96.8	96.9	96.4	0.89	0.90	0.90	0.86	3121	2.40	0.80	5.6		21	85	1.00
1330	**1NB1 502-2AA10-4CC0**	3585	136	96.5	96.5	96.4	95.6	0.88	0.89	0.89	0.85	3543	2.60	0.65	5.6		26	105	0.85
1500	**1NB1 504-2AA10-4CC0**	3585	150	96.7	96.7	96.6	95.9	0.89	0.90	0.89	0.86	3996	2.75	0.65	6.0		29	110	0.90
1610	**1NB1 506-2AA10-4CC0**	3587	160	96.8	96.9	96.7	96.0	0.91	0.91	0.90	0.85	4286	3.10	0.70	6.7		33	130	1.00
1810	**1NB1 564-2AA10-4CC0**	3588	180	96.8	96.8	96.6	95.8	0.90	0.91	0.91	0.88	4817	2.45	0.55	5.5		50	250	0.70
2050	**1NB1 566-2AA10-4CC0**	3588	205	97.0	97.1	96.9	96.1	0.91	0.91	0.91	0.89	5456	2.60	0.55	5.8		55	250	0.75
4-pole: n_{sync} = 1800 rpm at 60 Hz																		
300	**1NB1 350-4AA10-4AA0**	1784	34	94.7	95.1	95.1	94.4	0.82	0.82	0.77	0.74	1606	2.40	1.20	5.2		5	200	1.00
330	**1NB1 352-4AA10-4AA0**	1785	36	95.0	95.3	95.4	94.7	0.83	0.83	0.77	0.74	1765	2.55	1.30	5.6		5	250	1.00
370	**1NB1 354-4AA10-4AA0**	1786	41	95.1	95.5	95.5	94.9	0.83	0.83	0.78	0.74	1978	2.65	1.35	5.8		6	300	1.00
440	**1NB1 356-4AA10-4AA0**	1786	48	95.4	95.8	95.9	95.3	0.84	0.84	0.79	0.75	2353	2.70	1.40	5.9		7	350	1.00
550	**1NB1 358-4AA10-4AA0**	1786	59	95.7	96.1	96.2	95.8	0.85	0.85	0.80	0.77	2941	2.70	1.40	5.9		8	350	1.00
810	**1NB1 404-4AA10-4A.0**	1787	88	95.9	96.3	96.4	96.1	0.83	0.84	0.83	0.78	4328	2.20	1.00	4.7		12	125	1.00
830	**1NB1 404-4AA10-4C.0**	1787	89	96.0	96.4	96.5	96.2	0.85	0.85	0.84	0.79	4435	2.35	0.60	4.9		15	250	1.00
870	**1NB1 406-4AA10-4A.0**	1788	93	96.1	96.4	96.5	96.1	0.84	0.85	0.83	0.78	4646	2.35	1.10	5.1		13	150	1.00
900	**1NB1 406-4AA10-4C.0**	1788	96	96.2	96.5	96.6	96.3	0.85	0.85	0.84	0.79	4807	2.50	0.65	5.3		17	300	1.00
1020	**1NB1 452-4AA10-4A.0**	1789	112	96.2	96.6	96.7	96.2	0.82	0.83	0.81	0.76	5445	2.10	1.05	4.9		20	150	0.90
1030	**1NB1 452-4AA10-4C.0**	1790	112	96.2	96.6	96.6	96.1	0.84	0.84	0.83	0.77	5495	2.25	0.60	5.3		25	350	1.00
1120	**1NB1 454-4AA10-4A.0**	1789	122	96.3	96.7	96.8	96.3	0.82	0.83	0.81	0.75	5978	2.15	1.05	5.0		22	150	0.90
1150	**1NB1 454-4AA10-4C.0**	1790	124	96.3	96.7	96.7	96.3	0.83	0.84	0.83	0.77	6135	2.25	0.60	5.3		28	400	0.95
1170	**1NB1 456-4AA10-4A.0**	1791	126	96.5	96.8	96.8	96.3	0.84	0.84	0.81	0.74	6238	2.50	1.25	5.7		25	250	1.00
1200	**1NB1 456-4AA10-4C.0**	1792	128	96.5	96.8	96.8	96.2	0.86	0.85	0.83	0.76	6395	2.65	0.75	6.1		32	500	1.00
1350	**1NB1 502-4AA10-4A.0**	1789	146	96.0	96.2	96.2	95.5	0.82	0.84	0.84	0.79	7206	1.95	0.80	4.6		29	150	0.70

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SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
1400	**1NB1 502-4AA10-4C.0**	1790	150	96.2	96.4	96.4	95.8	0.83	0.85	0.85	0.81	7469	2.00	0.55	4.9	37	350	0.85
1470	**1NB1 504-4AA10-4A.0**	1791	156	96.3	96.4	96.3	95.6	0.84	0.85	0.83	0.77	7838	2.30	1.00	5.4	33	150	0.90
1520	**1NB1 504-4AA10-4C.0**	1792	160	96.5	96.6	96.5	95.8	0.86	0.86	0.85	0.79	8100	2.40	0.65	5.9	42	500	1.00
1670	**1NB1 506-4AA10-4A.0**	1791	178	96.5	96.7	96.5	95.9	0.85	0.85	0.84	0.78	8904	2.35	0.95	5.5	38	200	0.90
1720	**1NB1 506-4AA10-4C.0**	1792	180	96.7	96.8	96.7	96.1	0.86	0.86	0.85	0.79	9166	2.45	0.65	6.0	48	600	1.00
1800	**1NB1 560-4AA10-4A.0**	1791	194	96.2	96.3	96.1	95.1	0.81	0.84	0.83	0.79	9597	1.90	0.80	4.8	49	300	0.75
1800	**1NB1 560-4AA10-4C.0**	1791	192	96.3	96.5	96.3	95.4	0.82	0.85	0.84	0.80	9597	1.95	0.55	5.1	65	500	0.85
2100	**1NB1 562-4AA10-4A.0**	1792	225	96.6	96.7	96.4	95.5	0.82	0.84	0.83	0.78	11191	2.00	0.85	5.2	55	250	0.80
2150	**1NB1 562-4AA10-4C.0**	1792	230	96.7	96.8	96.7	95.9	0.83	0.85	0.85	0.80	11457	2.05	0.55	5.3	72	550	0.90
2250	**1NB1 564-4AA10-4A.0**	1792	240	96.7	96.8	96.6	95.7	0.84	0.85	0.84	0.79	11990	2.15	0.90	5.4	60	300	0.90
2300	**1NB1 564-4AA10-4C.0**	1792	240	96.9	97.0	96.8	96.1	0.85	0.87	0.86	0.81	12256	2.20	0.60	5.7	79	650	0.95
2500	**1NB1 566-4AA10-4A.0**	1793	260	96.9	97.0	96.7	95.9	0.84	0.86	0.84	0.78	13315	2.30	0.95	5.8	67	300	0.95
2550	**1NB1 566-4AA10-4C.0**	1793	265	97.0	97.1	97.0	96.2	0.85	0.87	0.86	0.80	13581	2.35	0.65	6.1	88	800	1.00
6-pole: n_{sync} = 1200 rpm at 60 Hz																		
270	**1NB1 352-6AA10-4AA0**	1191	31	95.1	95.6	96.0	95.7	0.80	0.80	0.72	0.68	2165	2.50	1.20	5.4	11	300	1.00
300	**1NB1 354-6AA10-4AA0**	1190	34	95.3	95.9	96.4	96.3	0.79	0.79	0.72	0.69	2407	2.40	1.10	5.1	11	350	1.00
350	**1NB1 356-6AA10-4AA0**	1190	40	95.5	96.1	96.6	96.5	0.80	0.80	0.73	0.70	2809	2.45	1.10	5.2	13	400	1.00
420	**1NB1 358-6AA10-4AA0**	1191	47	95.7	96.3	96.7	96.6	0.81	0.81	0.73	0.69	3368	2.50	1.15	5.4	15	500	1.00
660	**1NB1 404-6AA10-4C.0**	1193	73	95.8	96.1	96.3	95.7	0.83	0.82	0.79	0.70	5283	2.60	0.90	5.5	27	450	1.00
660	**1NB1 404-6AA10-4A.0**	1192	74	95.8	96.2	96.3	95.9	0.81	0.81	0.78	0.69	5287	2.60	1.30	5.7	22	550	1.00
710	**1NB1 406-6AA10-4C.0**	1194	78	95.9	96.2	96.3	95.7	0.84	0.83	0.79	0.70	5678	2.70	0.90	5.7	31	450	1.00
710	**1NB1 406-6AA10-4A.0**	1193	79	95.9	96.2	96.4	95.9	0.82	0.82	0.78	0.70	5683	2.65	1.30	5.8	25	600	1.00
730	**1NB1 452-6AA10-4A.0**	1191	83	95.6	96.2	96.3	96.0	0.78	0.80	0.79	0.74	5853	1.90	0.85	4.8	28	1200	0.90
750	**1NB1 452-6AA10-4C.0**	1191	82	95.9	96.3	96.5	96.2	0.82	0.83	0.82	0.77	6013	2.10	0.60	4.5	36	800	0.95
800	**1NB1 454-6AA10-4A.0**	1193	90	96.0	96.4	96.4	95.9	0.81	0.81	0.79	0.73	6404	2.20	1.05	5.4	32	1050	1.00
830	**1NB1 454-6AA10-4C.0**	1192	90	96.1	96.5	96.5	96.2	0.84	0.84	0.82	0.75	6649	2.30	0.70	5.0	41	850	1.00
900	**1NB1 456-6AA10-4A.0**	1194	100	96.3	96.5	96.4	95.9	0.81	0.81	0.78	0.69	7198	2.55	1.20	6.4	37	1600	1.00
950	**1NB1 456-6AA10-4C.0**	1194	104	96.4	96.6	96.6	96.1	0.84	0.83	0.80	0.72	7598	2.65	0.75	5.7	47	1250	1.00
980	**1NB1 500-6AA10-4A.0**	1192	110	95.8	96.3	96.6	96.3	0.80	0.81	0.81	0.76	7851	1.90	1.15	5.2	47	600	0.85
1060	**1NB1 500-6AA10-4C.0**	1194	112	96.1	96.5	96.6	96.3	0.86	0.86	0.85	0.80	8478	2.15	0.60	5.3	60	800	0.85
1200	**1NB1 502-6AA10-4A.0**	1192	134	96.1	96.6	96.8	96.6	0.80	0.81	0.81	0.76	9613	1.95	1.15	5.3	53	300	0.90
1270	**1NB1 502-6AA10-4C.0**	1194	134	96.4	96.7	96.9	96.6	0.86	0.86	0.84	0.79	10157	2.25	0.55	5.5	68	900	0.90
1300	**1NB1 504-6AA10-4A.0**	1193	144	96.3	96.7	96.9	96.6	0.82	0.82	0.81	0.76	10406	2.10	1.30	5.7	60	400	0.95
1370	**1NB1 504-6AA10-4C.0**	1195	144	96.6	96.9	97.0	96.6	0.87	0.86	0.85	0.79	10948	2.40	0.65	6.0	76	950	1.00
1400	**1NB1 506-6AA10-4A.0**	1193	152	96.5	96.8	97.0	96.7	0.83	0.83	0.82	0.76	11206	2.20	1.30	5.9	68	550	1.00
1500	**1NB1 506-6AA10-4C.0**	1195	156	96.7	97.0	97.1	96.8	0.87	0.87	0.85	0.79	11987	2.45	0.65	6.1	86	1100	1.00
1900	**1NB1 562-6AA10-4C.0**	1194	196	96.9	97.2	97.2	96.9	0.87	0.87	0.87	0.83	15196	2.40	0.50	4.9	120	1250	0.80

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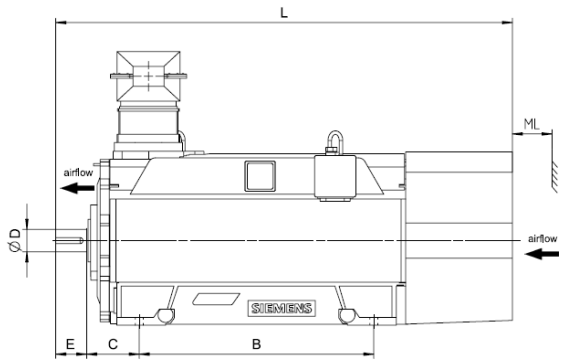
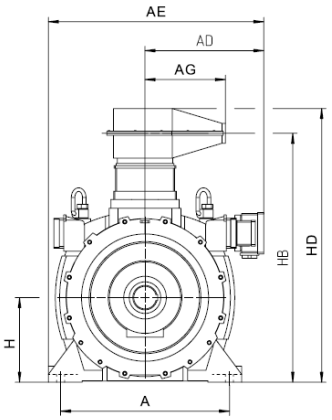
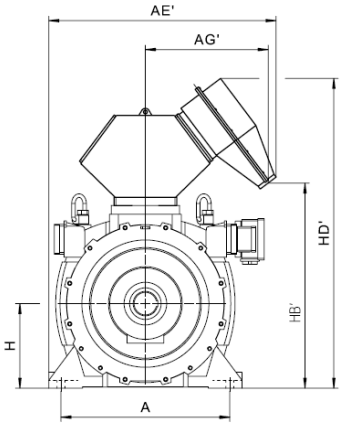
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
2200	**1NB1 564-6AA10-4C.0**	1194	225	97.0	97.3	97.4	97.1	0.87	0.87	0.87	0.83	17595	2.30	0.45	4.8	137	1400	0.75
2250	**1NB1 566-6AA10-4C.0**	1195	230	97.1	97.3	97.4	97.0	0.87	0.88	0.87	0.82	17980	2.60	0.55	5.4	152	1900	0.90
8-pole: n_{sync} = 900 rpm at 60 Hz																		
180	**1NB1 354-8AA10-4AA0**	889	21	93.9	94.8	95.4	95.6	0.80	0.79	0.70	0.66	1933	2.45	0.85	4.7	10	350	1.00
220	**1NB1 356-8AA10-4AA0**	890	26	94.2	95.0	95.5	95.6	0.80	0.80	0.71	0.66	2361	2.65	0.90	5.1	12	450	1.00
280	**1NB1 358-8AA10-4AA0**	891	32	94.7	95.3	95.8	95.7	0.80	0.79	0.69	0.64	3001	2.85	1.00	5.3	15	700	1.00
510	**1NB1 404-8AA10-4A.0**	892	58	95.4	95.9	96.1	95.7	0.80	0.80	0.76	0.67	5460	2.35	0.95	4.9	22	1100	1.00
520	**1NB1 404-8AA10-4C.0**	893	59	95.5	95.9	96.0	95.5	0.81	0.80	0.75	0.65	5561	2.15	0.75	4.2	27	900	1.00
570	**1NB1 406-8AA10-4A.0**	891	65	95.5	96.1	96.2	95.8	0.81	0.80	0.77	0.68	6109	2.35	0.95	4.9	25	1250	1.00
570	**1NB1 406-8AA10-4C.0**	893	65	95.7	96.1	96.1	95.6	0.81	0.80	0.76	0.66	6095	2.20	0.75	4.3	31	1150	1.00
660	**1NB1 452-8AA10-4A.0**	892	78	95.1	95.8	96.1	95.7	0.76	0.77	0.76	0.70	7066	1.90	0.85	4.2	28	1450	1.00
680	**1NB1 452-8AA10-4C.0**	892	78	95.3	95.9	96.1	95.7	0.80	0.80	0.78	0.72	7280	1.95	0.60	3.7	36	1200	0.85
720	**1NB1 454-8AA10-4A.0**	892	84	95.4	96.0	96.2	95.8	0.78	0.78	0.77	0.70	7708	2.00	0.90	4.3	32	1700	1.00
730	**1NB1 454-8AA10-4C.0**	893	82	95.6	96.1	96.2	95.7	0.81	0.81	0.78	0.71	7806	2.00	0.65	3.9	41	1350	0.90
760	**1NB1 456-8AA10-4A.0**	893	88	95.6	96.1	96.2	95.8	0.79	0.79	0.77	0.70	8127	2.15	0.95	4.7	37	2100	1.00
770	**1NB1 456-8AA10-4C.0**	894	86	95.8	96.2	96.2	95.7	0.81	0.81	0.78	0.71	8225	2.20	0.70	4.2	47	1400	1.00
800	**1NB1 502-8AA10-4A.0**	894	91	95.5	96.0	95.9	95.5	0.80	0.80	0.78	0.71	8545	2.10	0.70	5.2	52	1900	0.95
820	**1NB1 502-8AA10-4C.0**	894	89	95.5	95.8	95.7	95.1	0.85	0.84	0.81	0.73	8759	2.40	0.70	5.3	67	1500	1.00
860	**1NB1 504-8AA10-4A.0**	895	97	95.6	96.0	95.9	95.4	0.81	0.81	0.78	0.70	9176	2.30	0.75	5.6	59	1750	1.00
860	**1NB1 504-8AA10-4C.0**	895	93	95.6	95.9	95.6	94.9	0.86	0.84	0.80	0.71	9176	2.70	0.80	5.9	76	1700	1.00
930	**1NB1 506-8AA10-4A.0**	895	106	95.8	96.1	95.9	95.3	0.82	0.80	0.76	0.67	9923	2.60	0.90	6.3	66	2250	1.00
930	**1NB1 506-8AA10-4C.0**	896	102	95.8	95.9	95.6	94.8	0.85	0.83	0.78	0.68	9912	3.00	0.90	6.6	85	2000	1.00
1200	**1NB1 562-8AA10-4C.0**	895	130	96.5	96.7	96.7	96.2	0.84	0.84	0.82	0.75	12804	2.45	0.55	4.9	120	3500	0.95
1400	**1NB1 564-8AA10-4C.0**	894	148	96.5	96.8	96.9	96.5	0.84	0.85	0.84	0.78	14954	2.20	0.50	4.5	136	3600	0.80
1500	**1NB1 566-8AA10-4C.0**	895	162	96.6	96.9	96.9	96.4	0.85	0.84	0.82	0.75	16004	2.50	0.55	5.0	152	3450	0.95







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 350-2AA10-4AA0	2500	630	525	767	915	1157	525	729	800	254	75	105	355	o.r.	1166	o.r.	1292	1807	150
1NB1 352-2AA10-4AA0	2600	630	525	767	915	1157	525	729	800	254	75	105	355	o.r.	1166	o.r.	1292	1807	150
1NB1 354-2AA10-4AA0	2900	630	525	767	915	1157	525	729	1000	254	75	105	355	o.r.	1166	o.r.	1292	2067	150
1NB1 356-2AA10-4AA0	3000	630	525	767	915	1157	525	729	1000	254	75	105	355	o.r.	1166	o.r.	1292	2067	150
1NB1 358-2AA10-4AA0	3100	630	525	767	915	1157	525	729	1000	254	75	105	355	o.r.	1166	o.r.	1292	2067	150
1NB1 402-2AA10-4C.0	3900	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 402-2AA10-4A.0	3800	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 404-2AA10-4C.0	4000	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 404-2AA10-4A.0	3900	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 406-2AA10-4A.0	4100	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 406-2AA10-4C.0	4200	800	541	737	991	1187	525	693	1120	254	85	130	400	o.r.	1237	o.r.	1363	2147	160
1NB1 452-2AA10-4CC0	5200	900	557	737	1072	1252	525	693	1250	500	95	130	450	o.r.	1329	o.r.	1456	2584	180
1NB1 454-2AA10-4C.0	5200	900	557	737	1072	1252	525	693	1250	280	95	130	450	o.r.	1329	o.r.	1456	2289	180
1NB1 456-2AA10-4C.0	5400	900	557	737	1072	1252	525	693	1250	280	95	130	450	o.r.	1329	o.r.	1456	2289	180
1NB1 502-2AA10-4CC0	6800	1000	629	737	1194	1302	525	693	1320	560	110	165	500	o.r.	1440	o.r.	1567	2782	200
1NB1 504-2AA10-4CC0	7100	1000	629	737	1194	1302	525	693	1320	560	110	165	500	o.r.	1440	o.r.	1567	2782	200
1NB1 506-2AA10-4CC0	7600	1000	629	737	1194	1302	525	693	1320	560	110	165	500	o.r.	1440	o.r.	1567	2782	200
1NB1 564-2AA10-4CC0	9000	1120	684	737	1319	1372	525	693	1400	600	120	165	560	o.r.	1565	o.r.	1691	2913	225
1NB1 566-2AA10-4CC0	9400	1120	684	737	1319	1372	525	693	1400	600	120	165	560	o.r.	1565	o.r.	1691	2913	225
4-pole																			
1NB1 350-4AA10-4AA0	2500	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150
1NB1 352-4AA10-4AA0	2600	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150

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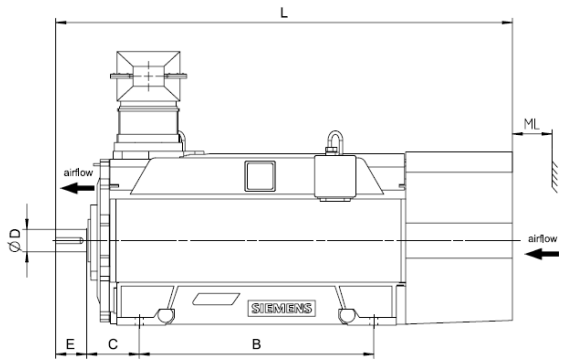

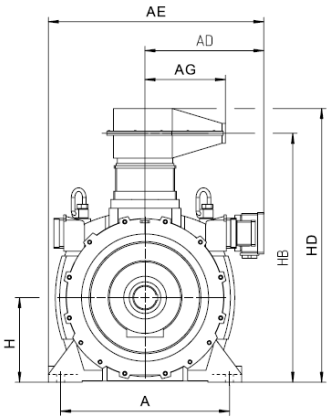

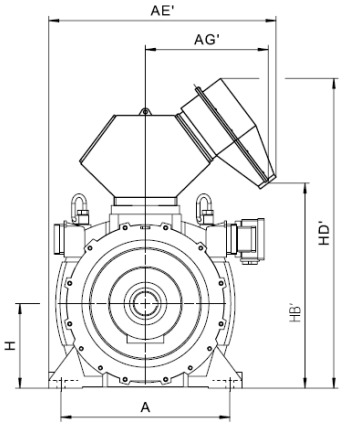

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 354-4AA10-4AA0	3000	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 356-4AA10-4AA0	3100	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 358-4AA10-4AA0	3400	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 404-4AA10-4A.0	4100	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 404-4AA10-4C.0	4200	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-4AA10-4A.0	4300	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-4AA10-4C.0	4400	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 452-4AA10-4A.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 452-4AA10-4C.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-4AA10-4A.0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-4AA10-4C.0	5400	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-4AA10-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-4AA10-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 502-4AA10-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 502-4AA10-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-4AA10-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-4AA10-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-4AA10-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-4AA10-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 560-4AA10-4A.0	8300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 560-4AA10-4C.0	8600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 562-4AA10-4A.0	8800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 562-4AA10-4C.0	9100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225

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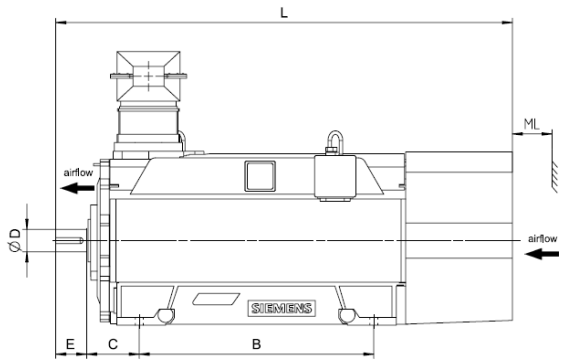

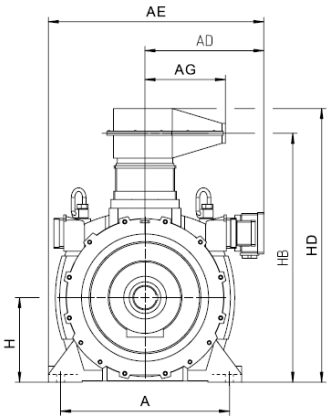

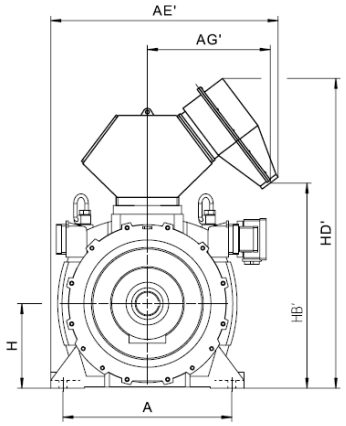

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 564-4AA10-4A.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 564-4AA10-4C.0	9500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 566-4AA10-4A.0	9600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 566-4AA10-4C.0	10000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
6-pole																			
1NB1 352-6AA10-4AA0	2800	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150
1NB1 354-6AA10-4AA0	2800	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150
1NB1 356-6AA10-4AA0	3200	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 358-6AA10-4AA0	3400	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 404-6AA10-4C.0	4300	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 404-6AA10-4A.0	4200	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-6AA10-4C.0	4600	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-6AA10-4A.0	4400	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 452-6AA10-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 452-6AA10-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-6AA10-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-6AA10-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-6AA10-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-6AA10-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 500-6AA10-4A.0	6200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 500-6AA10-4C.0	6400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 502-6AA10-4A.0	6600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 502-6AA10-4C.0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200

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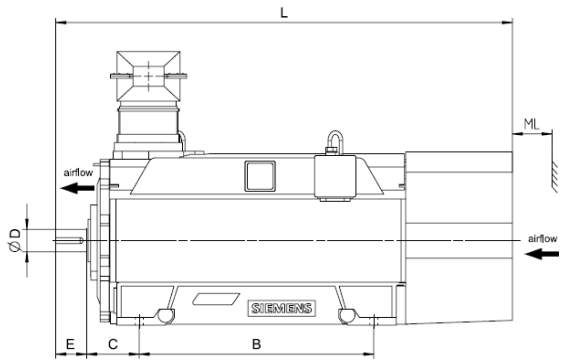

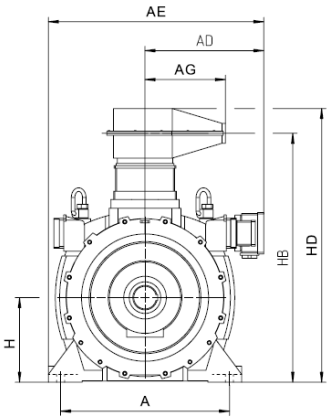

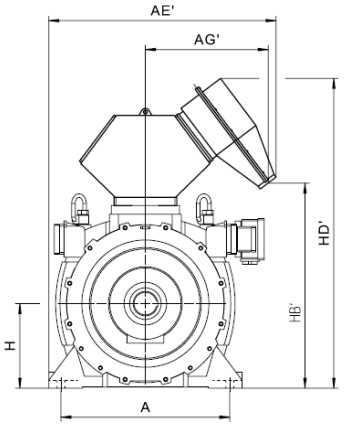

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 504-6AA10-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-6AA10-4C.0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-6AA10-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-6AA10-4C.0	7600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 562-6AA10-4C.0	9300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 564-6AA10-4C.0	9900	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 566-6AA10-4C.0	10500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
8-pole																			
1NB1 354-8AA10-4AA0	2800	630	525	767	915	1157	525	729	800	254	100	165	355	o.r.	1166	o.r.	1292	1927	150
1NB1 356-8AA10-4AA0	3200	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 358-8AA10-4AA0	3400	630	525	767	915	1157	525	729	1000	254	100	165	355	o.r.	1166	o.r.	1292	2187	150
1NB1 404-8AA10-4A.0	4100	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 404-8AA10-4C.0	4300	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-8AA10-4A.0	4400	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 406-8AA10-4C.0	4600	800	541	737	991	1187	525	693	1120	254	120	165	400	o.r.	1237	o.r.	1363	2242	160
1NB1 452-8AA10-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 452-8AA10-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-8AA10-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 454-8AA10-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-8AA10-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 456-8AA10-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	o.r.	1329	o.r.	1456	2434	180
1NB1 502-8AA10-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 502-8AA10-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200

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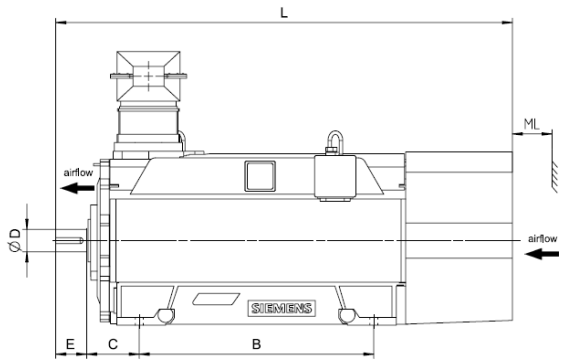

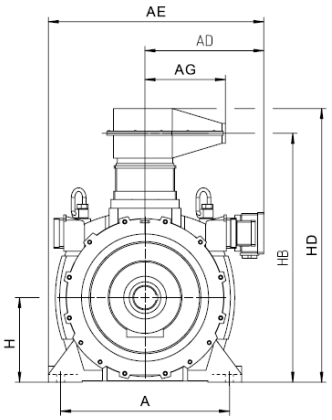

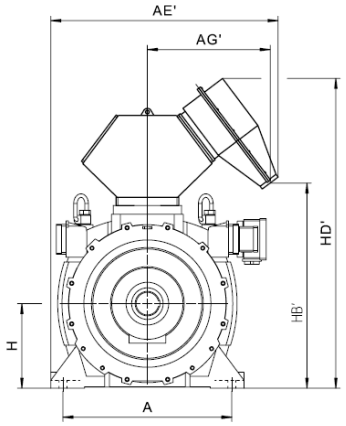

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 504-8AA10-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 504-8AA10-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-8AA10-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 506-8AA10-4C.0	7600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	o.r.	1440	o.r.	1567	2622	200
1NB1 562-8AA10-4C.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 564-8AA10-4C.0	9800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225
1NB1 566-8AA10-4C.0	10300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	o.r.	1565	o.r.	1691	2783	225

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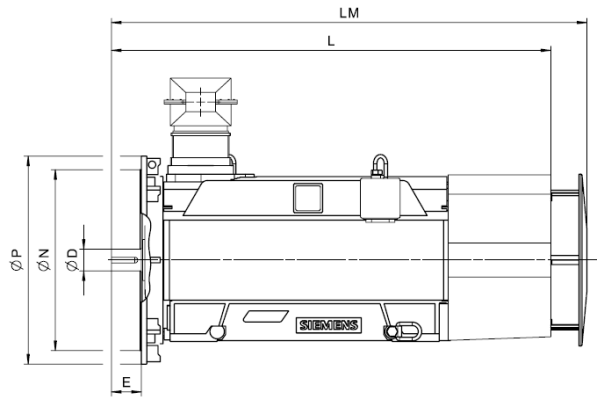

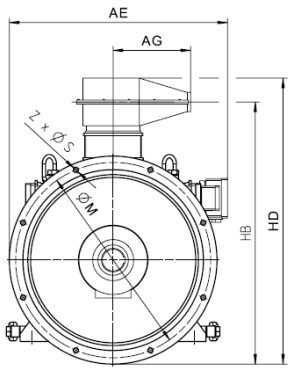

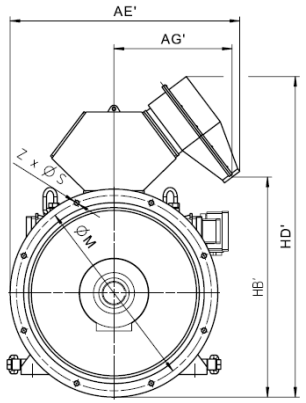

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
2-pole													
1NB1 350-2AA14-4AA0	2500	925	525	75	1211	1337	1807	2036	740	680	800	24	8
1NB1 352-2AA14-4AA0	2600	925	525	75	1211	1337	1807	2036	740	680	800	24	8
1NB1 354-2AA14-4AA0	3000	925	525	75	1211	1337	2067	2296	740	680	800	24	8
1NB1 356-2AA14-4AA0	3100	925	525	75	1211	1337	2067	2296	740	680	800	24	8
1NB1 358-2AA14-4AA0	3200	925	525	75	1211	1337	2067	2296	740	680	800	24	8
4-pole													
1NB1 350-4AA14-4AA0	2600	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 352-4AA14-4AA0	2700	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 354-4AA14-4AA0	3000	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 356-4AA14-4AA0	3200	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 358-4AA14-4AA0	3400	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 404-4AA14-4AA0	4300	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 404-4AA14-4CA0	4400	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-4AA14-4AA0	4400	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-4AA14-4CA0	4600	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 452-4AA14-4AA0	5200	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-4AA14-4CA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AA14-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AA14-4CA0	5600	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AA14-4AA0	5800	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AA14-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 502-4AA14-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16

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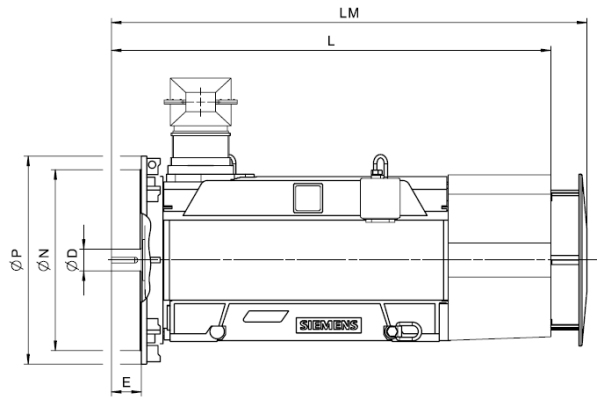

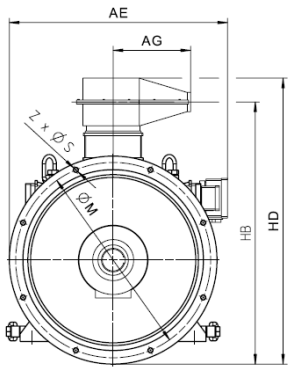

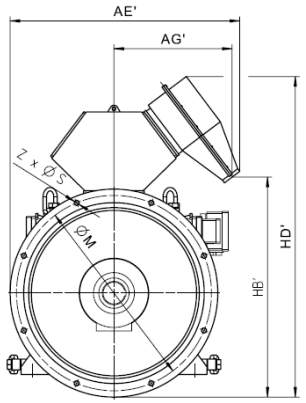

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 502-4AA14-4CA0	6900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AA14-4AA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AA14-4CA0	7300	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AA14-4AA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AA14-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 560-4AA14-4AA0	8700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 560-4AA14-4CA0	9000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AA14-4AA0	9100	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AA14-4CA0	9500	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AA14-4AA0	9600	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AA14-4CA0	9900	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AA14-4AA0	10000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AA14-4CA0	10300	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
6-pole													
1NB1 352-6AA14-4AA0	2900	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 354-6AA14-4AA0	2900	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 356-6AA14-4AA0	3300	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 358-6AA14-4AA0	3500	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 404-6AA14-4CA0	4500	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 404-6AA14-4AA0	4300	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-6AA14-4CA0	4700	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-6AA14-4AA0	4600	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 452-6AA14-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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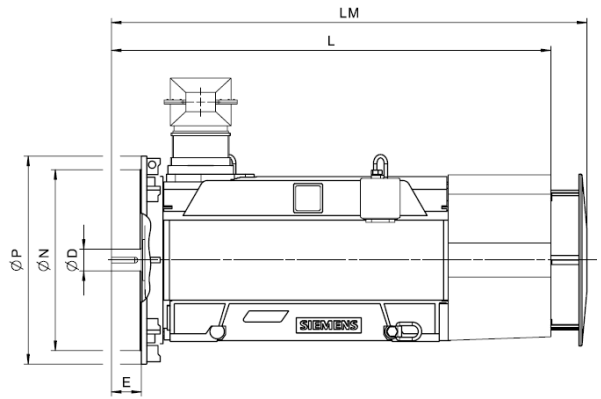

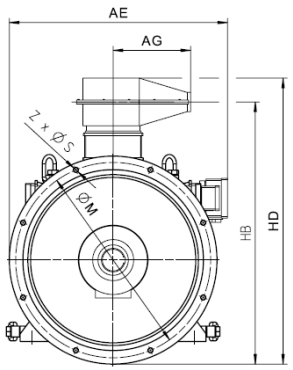

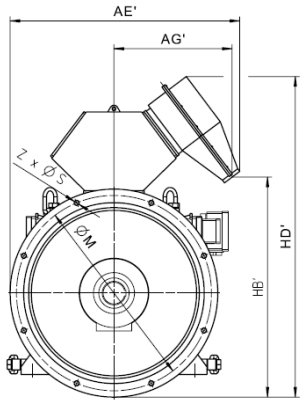

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 452-6AA14-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AA14-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AA14-4CA0	5600	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AA14-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AA14-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 500-6AA14-4AA0	6500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 500-6AA14-4CA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AA14-4AA0	6900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AA14-4CA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AA14-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AA14-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AA14-4AA0	7600	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AA14-4CA0	7900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-6AA14-4CA0	9600	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-6AA14-4CA0	10300	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-6AA14-4CA0	10800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
8-pole													
1NB1 354-8AA14-4AA0	2800	925	525	100	1211	1337	1927	2156	740	680	800	24	8
1NB1 356-8AA14-4AA0	3300	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 358-8AA14-4AA0	3500	925	525	100	1211	1337	2187	2416	740	680	800	24	8
1NB1 404-8AA14-4AA0	4300	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 404-8AA14-4CA0	4500	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 406-8AA14-4AA0	4600	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8

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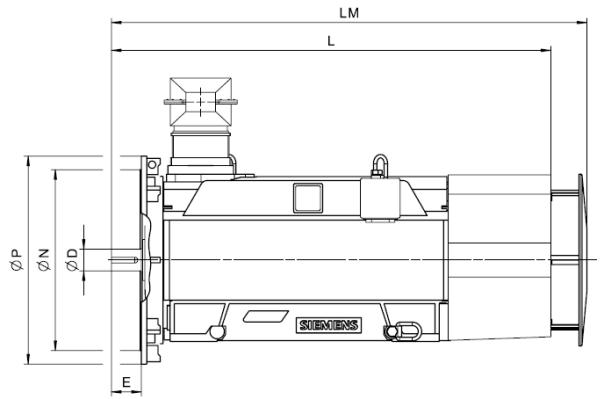

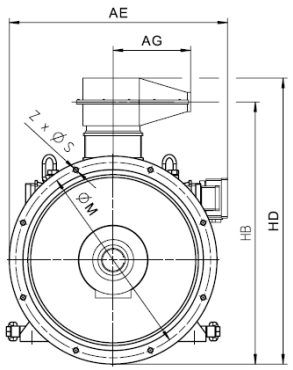

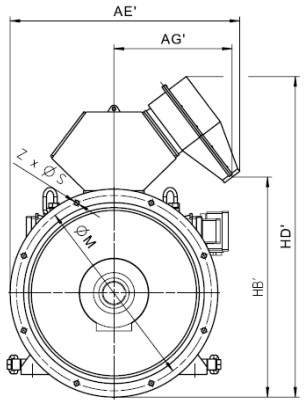

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 406-8AA14-4CA0	4700	1041	525	120	1337	1463	2242	2392	940	880	1000	24	8
1NB1 452-8AA14-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-8AA14-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AA14-4AA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AA14-4CA0	5500	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AA14-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AA14-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 502-8AA14-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-8AA14-4CA0	7000	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AA14-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AA14-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AA14-4AA0	7600	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AA14-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-8AA14-4CA0	9600	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-8AA14-4CA0	10200	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-8AA14-4CA0	10700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]		kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3000 rpm at 50 Hz																		
260	**1NB1 354-2AA80-4AA0**	2978	18	94.4	95.3	95.7	95.3	0.84	0.86	0.86	0.82	834	2.25	1.05	4.9		5	30	1.00
330	**1NB1 356-2AA80-4AA0**	2980	23	94.9	95.7	96.1	95.7	0.85	0.87	0.87	0.82	1057	2.40	1.20	5.2		5	35	1.00
380	**1NB1 358-2AA80-4AA0**	2980	26	95.1	95.9	96.4	96.0	0.86	0.87	0.88	0.83	1218	2.45	1.25	5.3		6	35	1.00
520	**1NB1 402-2AA80-4A.0**	2980	36	95.4	95.7	95.9	95.5	0.87	0.87	0.86	0.81	1666	2.50	1.00	5.3		9	40	1.00
510	**1NB1 402-2AA80-4C.0**	2977	36	95.2	95.6	95.8	95.4	0.87	0.87	0.86	0.80	1636	2.50	0.70	5.1		11	45	1.00
550	**1NB1 404-2AA80-4A.0**	2980	38	95.5	95.9	96.1	95.7	0.87	0.87	0.87	0.82	1762	2.50	1.05	5.4		10	45	1.00
550	**1NB1 404-2AA80-4C.0**	2977	38	95.3	95.8	96.0	95.6	0.88	0.88	0.87	0.82	1764	2.45	0.65	5.1		12	40	1.00
660	**1NB1 406-2AA80-4A.0**	2983	45	95.9	96.2	96.3	95.9	0.89	0.88	0.87	0.81	2113	2.90	1.15	6.2		11	55	1.00
650	**1NB1 406-2AA80-4C.0**	2982	44	95.9	96.2	96.2	95.7	0.89	0.88	0.85	0.78	2082	3.00	0.85	6.3		13	75	1.00
800	**1NB1 452-2AA80-4C.0**	2981	54	96.1	96.5	96.6	96.3	0.89	0.89	0.88	0.84	2563	2.55	0.90	5.9		16	115	1.00
800	**1NB1 452-2AA80-4A.0**	2984	55	96.4	96.7	96.8	96.4	0.87	0.87	0.86	0.81	2560	2.50	1.25	5.9		13	55	1.00
860	**1NB1 454-2AA80-4C.0**	2981	57	96.3	96.6	96.8	96.4	0.90	0.90	0.89	0.85	2755	2.55	0.90	6.0		18	130	1.00
860	**1NB1 454-2AA80-4A.0**	2985	58	96.5	96.9	96.9	96.5	0.88	0.88	0.87	0.82	2751	2.65	1.35	6.2		15	65	1.00
930	**1NB1 456-2AA80-4A.0**	2984	62	96.5	96.9	97.0	96.7	0.90	0.90	0.89	0.84	2976	2.70	1.30	6.3		16	50	1.00
930	**1NB1 456-2AA80-4C.0**	2984	61	96.5	96.8	96.9	96.5	0.91	0.91	0.89	0.85	2976	2.85	0.90	6.6		20	145	1.00
1050	**1NB1 502-2AA80-4A.0**	2984	71	96.3	96.6	96.7	96.3	0.87	0.88	0.88	0.85	3360	2.40	0.65	5.2		21	65	0.80
1060	**1NB1 502-2AA80-4C.0**	2985	70	96.3	96.5	96.5	96.0	0.89	0.90	0.89	0.85	3391	2.65	0.65	5.6		27	150	0.95
1200	**1NB1 504-2AA80-4A.0**	2985	80	96.6	96.9	96.9	96.5	0.88	0.89	0.88	0.85	3839	2.60	0.80	5.6		23	75	0.90
1220	**1NB1 504-2AA80-4C.0**	2986	81	96.6	96.8	96.8	96.3	0.90	0.90	0.89	0.85	3902	2.85	0.70	6.1		30	150	1.00
1300	**1NB1 506-2AA80-4A.0**	2986	87	96.8	97.0	97.0	96.7	0.89	0.89	0.89	0.85	4157	2.75	0.85	5.9		27	90	0.95
1350	**1NB1 506-2AA80-4C.0**	2986	88	96.8	97.0	97.0	96.5	0.91	0.91	0.90	0.86	4317	2.95	0.75	6.2		33	150	1.00
1370	**1NB1 564-2AA80-4C.0**	2988	90	96.7	96.9	96.8	96.2	0.90	0.91	0.91	0.88	4378	2.50	0.60	5.5		50	300	0.75
1620	**1NB1 566-2AA80-4C.0**	2988	106	97.0	97.1	97.1	96.6	0.91	0.91	0.91	0.88	5177	2.60	0.60	5.7		55	350	0.80
4-pole: n_{sync} = 1500 rpm at 50 Hz																		
320	**1NB1 356-4AA80-4AA0**	1485	23	94.5	95.1	95.5	95.3	0.85	0.85	0.80	0.79	2058	2.45	1.25	5.3		7	200	1.00
400	**1NB1 358-4AA80-4AA0**	1485	28	94.8	95.4	95.8	95.6	0.86	0.86	0.82	0.80	2572	2.55	1.35	5.5		8	200	1.00
570	**1NB1 404-4AA80-4A.0**	1489	41	95.4	95.9	96.1	95.8	0.85	0.84	0.82	0.76	3656	2.55	1.20	5.3		12	350	1.00
570	**1NB1 404-4AA80-4C.0**	1489	41	95.5	95.9	96.2	95.8	0.85	0.84	0.82	0.76	3656	2.55	0.65	5.2		15	200	1.00
630	**1NB1 406-4AA80-4A.0**	1488	44	95.6	96.1	96.3	96.0	0.85	0.85	0.83	0.77	4043	2.50	1.15	5.2		13	450	1.00
650	**1NB1 406-4AA80-4C.0**	1489	46	95.6	96.1	96.4	96.1	0.84	0.85	0.83	0.77	4169	2.40	0.60	5.0		17	250	1.00
670	**1NB1 450-4AA80-4A.0**	1489	48	95.5	96.1	96.3	96.0	0.82	0.83	0.81	0.75	4297	2.15	1.00	4.9		18	350	0.95
660	**1NB1 450-4AA80-4C.0**	1490	47	95.6	96.1	96.3	95.9	0.84	0.84	0.82	0.75	4230	2.35	0.70	5.3		23	300	1.00
750	**1NB1 452-4AA80-4A.0**	1491	54	95.9	96.3	96.4	96.0	0.83	0.83	0.80	0.73	4803	2.45	1.20	5.6		20	400	1.00
750	**1NB1 452-4AA80-4C.0**	1491	54	95.9	96.3	96.4	95.9	0.85	0.84	0.81	0.73	4803	2.65	0.80	6.1		25	350	1.00
850	**1NB1 454-4AA80-4A.0**	1490	61	96.1	96.5	96.7	96.3	0.83	0.83	0.81	0.74	5448	2.40	1.15	5.5		22	500	1.00
860	**1NB1 454-4AA80-4C.0**	1491	61	96.2	96.5	96.6	96.2	0.85	0.85	0.82	0.75	5508	2.60	0.75	6.0		28	450	1.00

SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]		kgm^2	kgm^2	[-]
930	**1NB1 456-4AA80-4A.0**	1492	67	96.3	96.6	96.7	96.3	0.84	0.83	0.80	0.72	5952	2.75	1.35	6.2		25	600	1.00
950	**1NB1 456-4AA80-4C.0**	1492	67	96.4	96.7	96.7	96.2	0.86	0.85	0.81	0.73	6080	2.90	0.85	6.7		32	550	1.00
1050	**1NB1 502-4AA80-4A.0**	1490	75	95.9	96.2	96.3	95.8	0.84	0.84	0.83	0.77	6729	2.25	0.90	5.1		29	550	0.95
1050	**1NB1 502-4AA80-4C.0**	1492	74	96.0	96.3	96.3	95.8	0.85	0.85	0.84	0.78	6720	2.35	0.70	5.7		37	750	1.00
1270	**1NB1 504-4AA80-4A.0**	1490	90	96.1	96.5	96.6	96.2	0.83	0.84	0.84	0.79	8139	2.10	0.85	4.8		33	400	0.85
1300	**1NB1 504-4AA80-4C.0**	1491	91	96.2	96.6	96.7	96.3	0.84	0.85	0.85	0.80	8326	2.20	0.65	5.3		42	650	1.00
1400	**1NB1 506-4AA80-4A.0**	1491	98	96.3	96.6	96.7	96.3	0.85	0.85	0.84	0.78	8966	2.30	0.95	5.3		38	450	0.95
1450	**1NB1 506-4AA80-4C.0**	1492	100	96.4	96.7	96.8	96.4	0.86	0.87	0.85	0.80	9280	2.40	0.70	5.8		48	700	1.00
1470	**1NB1 560-4AA80-4A.0**	1492	104	96.2	96.5	96.5	95.8	0.82	0.84	0.83	0.77	9408	2.05	0.85	5.2		49	600	0.90
1500	**1NB1 560-4AA80-4C.0**	1492	106	96.3	96.6	96.6	96.0	0.83	0.85	0.84	0.80	9600	2.10	0.60	5.3		65	750	0.95
1770	**1NB1 562-4AA80-4A.0**	1492	124	96.5	96.8	96.8	96.3	0.83	0.85	0.84	0.79	11329	2.05	0.85	5.1		55	500	0.85
1800	**1NB1 562-4AA80-4C.0**	1492	124	96.6	96.9	96.9	96.5	0.84	0.86	0.85	0.81	11521	2.10	0.60	5.3		72	800	0.95
2000	**1NB1 564-4AA80-4A.0**	1493	140	96.8	97.0	97.0	96.5	0.83	0.85	0.83	0.78	12792	2.15	0.90	5.4		60	450	0.90
2020	**1NB1 564-4AA80-4C.0**	1492	140	96.9	97.1	97.1	96.7	0.85	0.86	0.85	0.80	12929	2.20	0.65	5.6		79	950	1.00
2150	**1NB1 566-4AA80-4A.0**	1493	148	97.0	97.2	97.1	96.6	0.85	0.86	0.84	0.78	13751	2.35	1.00	5.8		67	550	1.00
2200	**1NB1 566-4AA80-4C.0**	1493	150	97.0	97.2	97.2	96.8	0.86	0.87	0.86	0.80	14071	2.40	0.70	6.0		88	1200	1.00
6-pole: n_{sync} = 1000 rpm at 50 Hz																			
400	**1NB1 404-6AA80-4A.0**	992	30	95.0	95.5	95.8	95.4	0.81	0.80	0.76	0.66	3851	2.70	1.05	5.9		12	550	1.00
400	**1NB1 404-6AA80-4C.0**	992	30	94.9	95.4	95.7	95.3	0.81	0.80	0.76	0.67	3851	2.35	0.75	4.7		15	450	1.00
450	**1NB1 406-6AA80-4A.0**	992	34	95.4	95.8	96.1	95.7	0.81	0.81	0.77	0.67	4332	2.75	1.05	5.9		13	850	1.00
450	**1NB1 406-6AA80-4C.0**	992	34	95.2	95.7	96.0	95.5	0.81	0.81	0.77	0.68	4332	2.40	0.75	4.7		17	700	1.00
600	**1NB1 454-6AA80-4A.0**	994	44	95.5	96.0	96.1	95.7	0.81	0.81	0.77	0.69	5764	2.50	1.20	6.0		32	850	1.00
630	**1NB1 454-6AA80-4C.0**	994	46	95.7	96.1	96.2	95.8	0.84	0.83	0.80	0.72	6052	2.60	0.80	5.6		41	650	1.00
660	**1NB1 456-6AA80-4A.0**	994	49	95.8	96.2	96.2	95.8	0.82	0.81	0.78	0.70	6341	2.60	1.25	6.2		37	1150	1.00
670	**1NB1 456-6AA80-4C.0**	994	48	95.9	96.2	96.3	95.8	0.85	0.83	0.80	0.71	6437	2.80	0.90	6.0		47	900	1.00
800	**1NB1 500-6AA80-4A.0**	994	60	95.7	96.2	96.5	96.2	0.80	0.80	0.78	0.71	7686	2.25	1.20	5.9		47	1400	1.00
800	**1NB1 500-6AA80-4C.0**	995	57	96.0	96.3	96.5	96.1	0.86	0.84	0.81	0.73	7678	2.70	0.70	6.5		60	1100	1.00
920	**1NB1 502-6AA80-4A.0**	993	68	95.8	96.3	96.6	96.5	0.81	0.81	0.80	0.74	8847	2.10	1.15	5.6		53	1150	1.00
980	**1NB1 502-6AA80-4C.0**	995	68	96.0	96.4	96.7	96.5	0.86	0.86	0.84	0.78	9405	2.40	0.65	5.9		68	800	1.00
1010	**1NB1 504-6AA80-4A.0**	994	74	96.0	96.5	96.7	96.5	0.83	0.82	0.81	0.74	9703	2.30	1.35	6.0		60	1350	1.00
1100	**1NB1 504-6AA80-4C.0**	995	76	96.2	96.6	96.8	96.6	0.87	0.86	0.84	0.77	10557	2.55	0.75	6.2		76	950	1.00
1120	**1NB1 506-6AA80-4A.0**	994	81	96.2	96.6	96.8	96.6	0.83	0.83	0.81	0.74	10760	2.40	1.40	6.2		68	1400	1.00
1170	**1NB1 506-6AA80-4C.0**	996	81	96.4	96.7	96.9	96.6	0.87	0.86	0.84	0.77	11218	2.70	0.80	6.7		86	1150	1.00
1500	**1NB1 562-6AA80-4C.0**	995	102	96.7	97.0	97.2	96.9	0.87	0.87	0.85	0.80	14396	2.60	0.55	5.3		120	2100	1.00
1650	**1NB1 564-6AA80-4C.0**	994	112	96.7	97.1	97.3	97.1	0.87	0.88	0.87	0.83	15851	2.40	0.50	4.9		137	2100	0.85
1800	**1NB1 566-6AA80-4C.0**	995	122	96.9	97.2	97.3	97.1	0.87	0.87	0.86	0.81	17275	2.65	0.55	5.5		152	2500	1.00
8-pole: n_{sync} = 750 rpm at 50 Hz																			

SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque		Locked rotor current		Inertia		
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R		I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]		[-]		kgm^2	kgm^2	[-]
280	**1NB1 404-8AA80-4A.0**	740	22	93.8	94.5	94.8	94.3	0.78	0.77	0.71	0.60	3613	2.50	0.80		4.5		12	800	1.00
280	**1NB1 404-8AA80-4C.0**	744	22	94.2	94.8	94.9	94.2	0.77	0.75	0.69	0.58	3594	2.10	0.65		3.8		16	650	0.95
300	**1NB1 406-8AA80-4A.0**	741	24	94.1	94.7	94.9	94.4	0.79	0.77	0.72	0.60	3866	2.60	0.80		4.7		14	1000	1.00
300	**1NB1 406-8AA80-4C.0**	744	24	94.5	95.0	95.0	94.3	0.77	0.75	0.69	0.58	3851	2.15	0.65		3.9		17	750	0.95
410	**1NB1 452-8AA80-4A.0**	744	32	94.3	95.0	95.2	94.8	0.78	0.77	0.74	0.66	5262	2.25	1.00		4.9		28	800	1.00
420	**1NB1 452-8AA80-4C.0**	744	32	94.4	95.0	95.2	94.7	0.81	0.80	0.76	0.67	5391	2.30	0.75		4.4		36	600	1.00
470	**1NB1 454-8AA80-4A.0**	744	36	94.5	95.2	95.4	95.1	0.79	0.78	0.75	0.67	6032	2.30	1.05		4.9		32	1000	1.00
500	**1NB1 454-8AA80-4C.0**	744	38	94.5	95.2	95.4	95.0	0.82	0.80	0.77	0.69	6418	2.20	0.75		4.3		41	800	1.00
550	**1NB1 456-8AA80-4A.0**	744	42	94.9	95.5	95.8	95.4	0.80	0.79	0.76	0.68	7059	2.30	1.05		4.9		37	1400	1.00
570	**1NB1 456-8AA80-4C.0**	744	42	95.0	95.6	95.8	95.3	0.82	0.81	0.77	0.69	7316	2.25	0.80		4.4		47	1100	1.00
630	**1NB1 502-8AA80-4A.0**	745	48	94.9	95.5	95.6	95.2	0.81	0.80	0.76	0.67	8075	2.40	0.85		5.7		52	1250	1.00
630	**1NB1 502-8AA80-4C.0**	745	46	95.1	95.4	95.3	94.7	0.85	0.83	0.78	0.69	8075	2.75	0.85		6.0		67	1250	1.00
710	**1NB1 504-8AA80-4A.0**	745	54	95.2	95.7	95.8	95.5	0.81	0.80	0.77	0.69	9101	2.35	0.80		5.7		59	1750	1.00
710	**1NB1 504-8AA80-4C.0**	745	51	95.3	95.7	95.6	95.0	0.85	0.84	0.79	0.70	9101	2.70	0.80		5.9		76	1750	1.00
750	**1NB1 506-8AA80-4A.0**	745	56	95.4	95.8	95.8	95.3	0.82	0.80	0.76	0.67	9613	2.60	0.95		6.2		66	2000	1.00
760	**1NB1 506-8AA80-4C.0**	746	55	95.4	95.7	95.6	94.9	0.85	0.83	0.78	0.68	9729	2.95	0.95		6.4		85	1850	1.00
1120	**1NB1 562-8AA80-4C.0**	744	79	96.0	96.5	96.8	96.7	0.84	0.85	0.83	0.78	14375	2.10	0.50		4.2		120	3600	0.85
1150	**1NB1 564-8AA80-4C.0**	745	81	96.1	96.6	96.9	96.7	0.84	0.85	0.83	0.78	14741	2.20	0.55		4.4		136	3000	0.90
1210	**1NB1 566-8AA80-4C.0**	745	85	96.3	96.7	96.9	96.7	0.85	0.85	0.83	0.77	15510	2.35	0.60		4.7		152	3250	1.00

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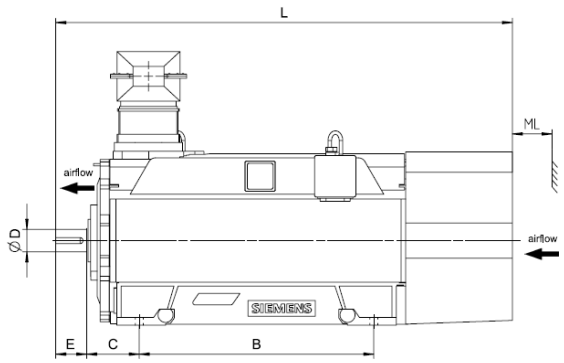

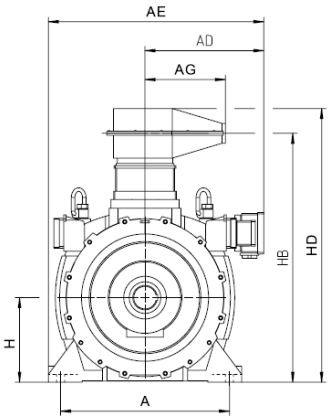

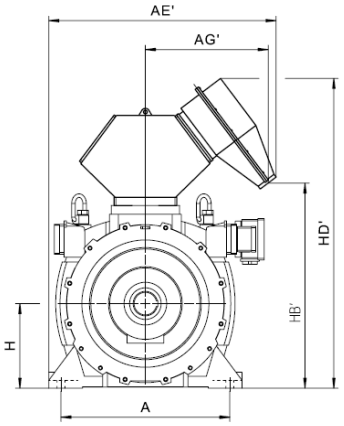

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 354-2AA80-4AA0	2900	630	710	994	1100	1384	710	957	1000	254	75	105	355	o.r.	1263	o.r.	1443	2067	150
1NB1 356-2AA80-4AA0	3000	630	710	994	1100	1384	710	957	1000	254	75	105	355	o.r.	1263	o.r.	1443	2067	150
1NB1 358-2AA80-4AA0	3100	630	710	994	1100	1384	710	957	1000	254	75	105	355	o.r.	1263	o.r.	1443	2067	150
1NB1 402-2AA80-4A.0	3800	800	710	949	1160	1399	710	907	1120	254	85	130	400	o.r.	1334	o.r.	1514	2147	160
1NB1 402-2AA80-4C.0	3800	800	710	949	1160	1399	710	907	1120	254	85	130	400	o.r.	1334	o.r.	1514	2147	160
1NB1 404-2AA80-4A.0	3900	800	710	949	1160	1399	710	907	1120	254	85	130	400	o.r.	1334	o.r.	1514	2147	160
1NB1 404-2AA80-4C.0	4000	800	710	949	1160	1399	710	907	1120	254	85	130	400	o.r.	1334	o.r.	1514	2147	160
1NB1 406-2AA80-4A.0	4100	800	710	949	1160	1399	710	907	1120	254	85	130	400	o.r.	1334	o.r.	1514	2147	160
1NB1 406-2AA80-4C.0	4200	800	710	949	1160	1399	710	907	1120	254	85	130	400	o.r.	1334	o.r.	1514	2147	160
1NB1 452-2AA80-4C.0	5000	900	710	949	1225	1464	710	907	1250	280	95	130	450	o.r.	1427	o.r.	1607	2289	180
1NB1 452-2AA80-4A.0	4900	900	710	949	1225	1464	710	907	1250	280	95	130	450	o.r.	1427	o.r.	1607	2289	180
1NB1 454-2AA80-4C.0	5200	900	710	949	1225	1464	710	907	1250	280	95	130	450	o.r.	1427	o.r.	1607	2289	180
1NB1 454-2AA80-4A.0	5100	900	710	949	1225	1464	710	907	1250	280	95	130	450	o.r.	1427	o.r.	1607	2289	180
1NB1 456-2AA80-4A.0	5300	900	710	949	1225	1464	710	907	1250	280	95	130	450	o.r.	1427	o.r.	1607	2289	180
1NB1 456-2AA80-4C.0	5400	900	710	949	1225	1464	710	907	1250	280	95	130	450	o.r.	1427	o.r.	1607	2289	180
1NB1 502-2AA80-4A.0	6400	1000	710	949	1275	1514	710	907	1320	315	110	165	500	o.r.	1538	o.r.	1718	2457	200
1NB1 502-2AA80-4C.0	6500	1000	710	949	1275	1514	710	907	1320	315	110	165	500	o.r.	1538	o.r.	1718	2457	200
1NB1 504-2AA80-4A.0	6700	1000	710	949	1275	1514	710	907	1320	315	110	165	500	o.r.	1538	o.r.	1718	2457	200
1NB1 504-2AA80-4C.0	6900	1000	710	949	1275	1514	710	907	1320	315	110	165	500	o.r.	1538	o.r.	1718	2457	200
1NB1 506-2AA80-4A.0	7100	1000	710	949	1275	1514	710	907	1320	315	110	165	500	o.r.	1538	o.r.	1718	2457	200
1NB1 506-2AA80-4C.0	7300	1000	710	949	1275	1514	710	907	1320	315	110	165	500	o.r.	1538	o.r.	1718	2457	200
1NB1 564-2AA80-4C.0	8800	1120	710	949	1345	1584	710	907	1400	335	120	165	560	o.r.	1662	o.r.	1842	2628	225

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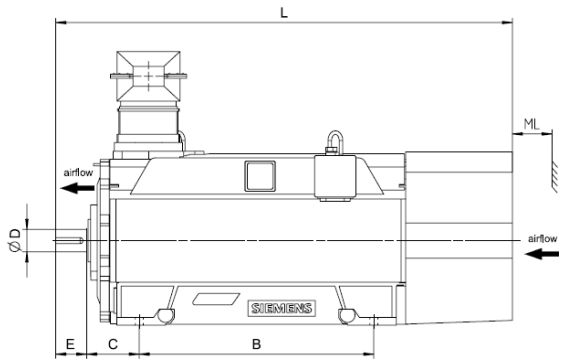

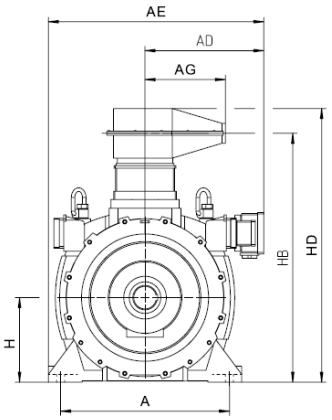

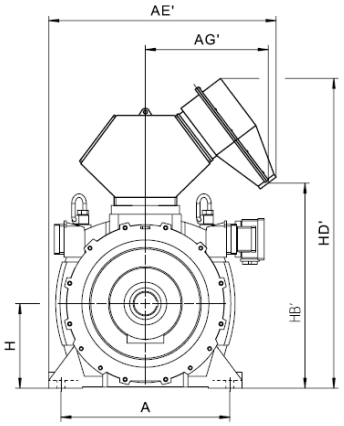

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 566-2AA80-4C.0	9300	1120	710	949	1345	1584	710	907	1400	335	120	165	560	o.r.	1662	o.r.	1842	2628	225
4-pole																			
1NB1 356-4AA80-4AA0	3200	630	710	994	1100	1384	710	957	1000	254	100	165	355	o.r.	1263	o.r.	1443	2187	150
1NB1 358-4AA80-4AA0	3400	630	710	994	1100	1384	710	957	1000	254	100	165	355	o.r.	1263	o.r.	1443	2187	150
1NB1 404-4AA80-4A.0	4000	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 404-4AA80-4C.0	4100	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 406-4AA80-4A.0	4200	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 406-4AA80-4C.0	4300	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 450-4AA80-4A.0	4700	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 450-4AA80-4C.0	4900	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 452-4AA80-4A.0	5000	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 452-4AA80-4C.0	5100	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 454-4AA80-4A.0	5200	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 454-4AA80-4C.0	5300	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 456-4AA80-4A.0	5500	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 456-4AA80-4C.0	5700	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 502-4AA80-4A.0	6400	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 502-4AA80-4C.0	6600	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 504-4AA80-4A.0	6900	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 504-4AA80-4C.0	7100	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 506-4AA80-4A.0	7200	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 506-4AA80-4C.0	7500	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 560-4AA80-4A.0	8200	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225

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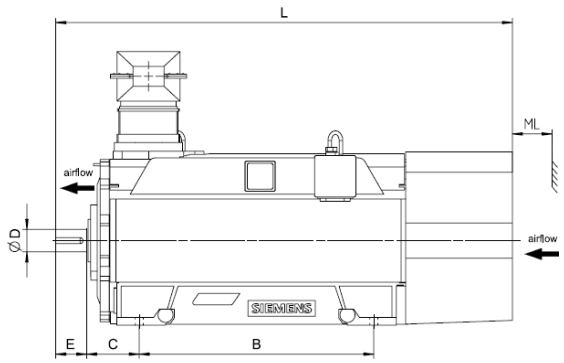

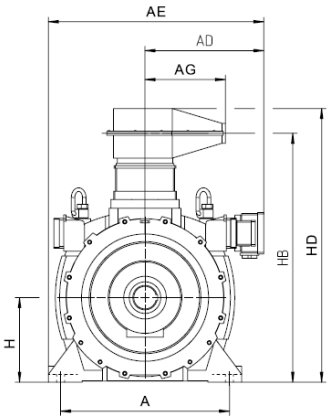

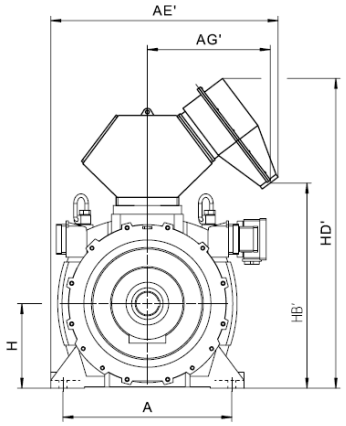

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 560-4AA80-4C.0	8500	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
1NB1 562-4AA80-4A.0	8700	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
1NB1 562-4AA80-4C.0	9000	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
1NB1 564-4AA80-4A.0	9100	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
1NB1 564-4AA80-4C.0	9500	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
1NB1 566-4AA80-4A.0	9600	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
1NB1 566-4AA80-4C.0	9900	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
6-pole																			
1NB1 404-6AA80-4A.0	4000	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 404-6AA80-4C.0	4100	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 406-6AA80-4A.0	4200	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 406-6AA80-4C.0	4300	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 454-6AA80-4A.0	5100	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 454-6AA80-4C.0	5300	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 456-6AA80-4A.0	5400	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 456-6AA80-4C.0	5700	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 500-6AA80-4A.0	6200	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 500-6AA80-4C.0	6400	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 502-6AA80-4A.0	6500	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 502-6AA80-4C.0	6800	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 504-6AA80-4A.0	6900	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 504-6AA80-4C.0	7100	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 506-6AA80-4A.0	7300	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200

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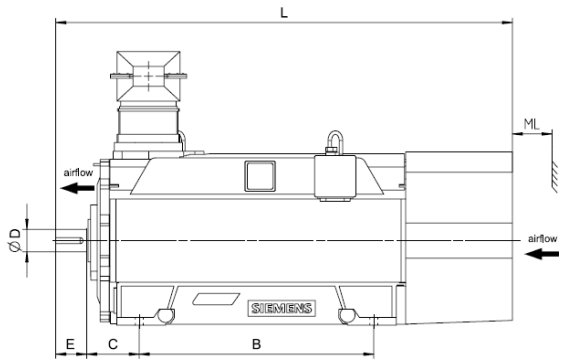

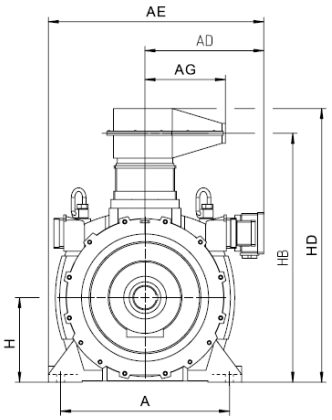

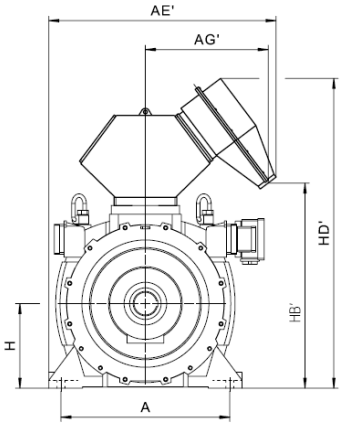

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 506-6AA80-4C.0	7600	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 562-6AA80-4C.0	9200	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
1NB1 564-6AA80-4C.0	9800	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
1NB1 566-6AA80-4C.0	10400	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
8-pole																			
1NB1 404-8AA80-4A.0	3900	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 404-8AA80-4C.0	4000	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 406-8AA80-4A.0	4100	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 406-8AA80-4C.0	4200	800	710	949	1160	1399	710	907	1120	254	120	165	400	o.r.	1334	o.r.	1514	2242	160
1NB1 452-8AA80-4A.0	4800	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 452-8AA80-4C.0	5000	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 454-8AA80-4A.0	5100	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 454-8AA80-4C.0	5200	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 456-8AA80-4A.0	5400	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 456-8AA80-4C.0	5600	900	710	949	1225	1464	710	907	1250	280	120	165	450	o.r.	1427	o.r.	1607	2434	180
1NB1 502-8AA80-4A.0	6500	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 502-8AA80-4C.0	6700	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 504-8AA80-4A.0	6900	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 504-8AA80-4C.0	7100	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 506-8AA80-4A.0	7300	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 506-8AA80-4C.0	7500	1000	710	949	1275	1514	710	907	1320	315	140	200	500	o.r.	1538	o.r.	1718	2622	200
1NB1 562-8AA80-4C.0	9200	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225
1NB1 564-8AA80-4C.0	9700	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225

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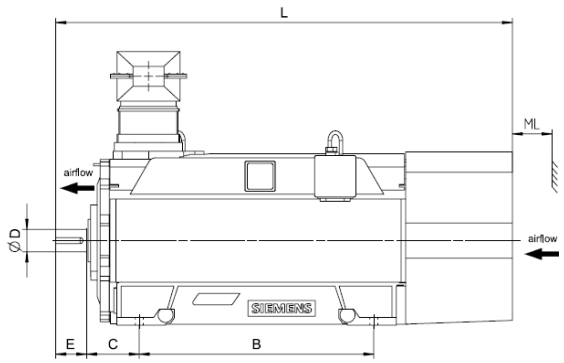
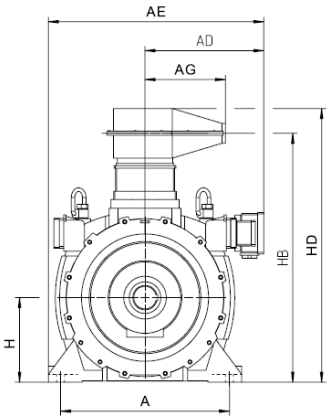
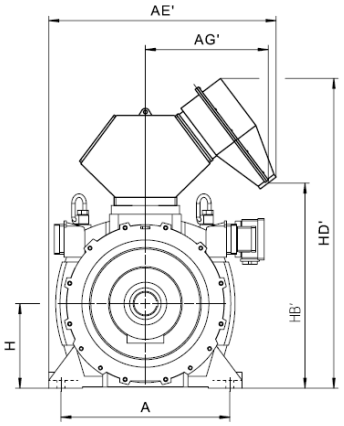
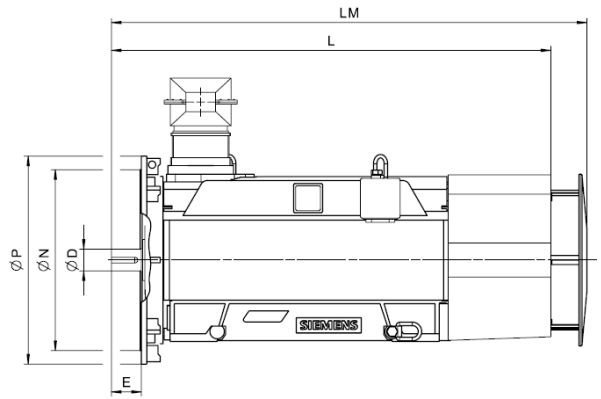
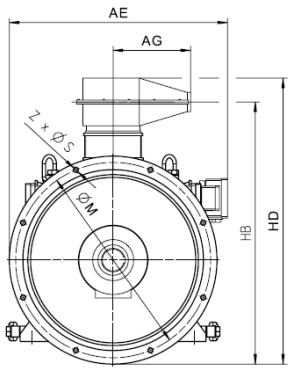


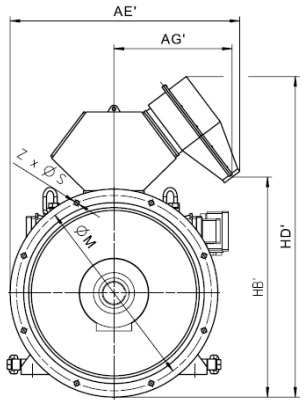




Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 566-8AA80-4C.0	10300	1120	710	949	1345	1584	710	907	1400	335	160	240	560	o.r.	1662	o.r.	1842	2783	225







Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
2-pole														
1NB1 354-2AA84-4AA0	3000	1110	710	75	1308	1488	2067	2296	740	680	800	24	8
1NB1 356-2AA84-4AA0	3100	1110	710	75	1308	1488	2067	2296	740	680	800	24	8
1NB1 358-2AA84-4AA0	3200	1110	710	75	1308	1488	2067	2296	740	680	800	24	8
1NB1 402-2AA84-4AA0	3900	1210	710	85	1434	1614	2147	2347	940	880	1000	24	8
1NB1 402-2AA84-4CA0	4000	1210	710	85	1434	1614	2147	2347	940	880	1000	24	8
1NB1 404-2AA84-4AA0	4100	1210	710	85	1434	1614	2147	2347	940	880	1000	24	8
1NB1 404-2AA84-4CA0	4100	1210	710	85	1434	1614	2147	2347	940	880	1000	24	8
1NB1 406-2AA84-4AA0	4200	1210	710	85	1434	1614	2147	2347	940	880	1000	24	8
1NB1 406-2AA84-4CA0	4300	1210	710	85	1434	1614	2147	2347	940	880	1000	24	8
4-pole														
1NB1 356-4AA84-4AA0	3200	1110	710	100	1308	1488	2187	2416	740	680	800	24	8
1NB1 358-4AA84-4AA0	3500	1110	710	100	1308	1488	2187	2416	740	680	800	24	8
1NB1 404-4AA84-4AA0	4200	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 404-4AA84-4CA0	4300	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 406-4AA84-4AA0	4400	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 406-4AA84-4CA0	4500	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 450-4AA84-4AA0	5000	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 450-4AA84-4CA0	5100	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 452-4AA84-4AA0	5200	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 452-4AA84-4CA0	5300	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 454-4AA84-4AA0	5400	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 454-4AA84-4CA0	5500	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8

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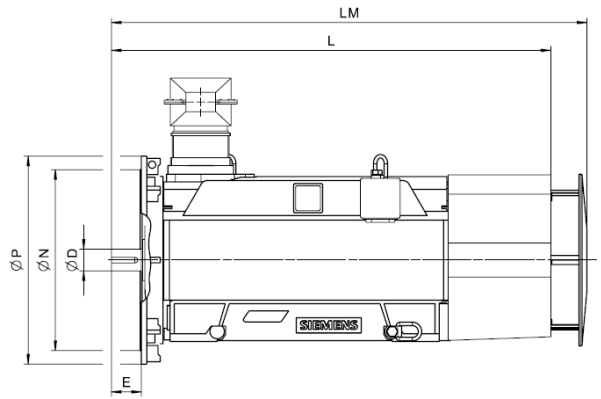

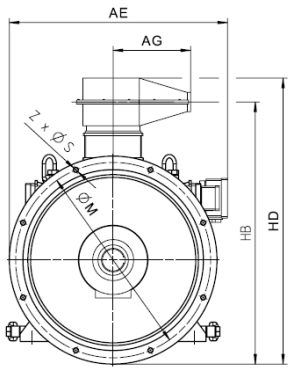

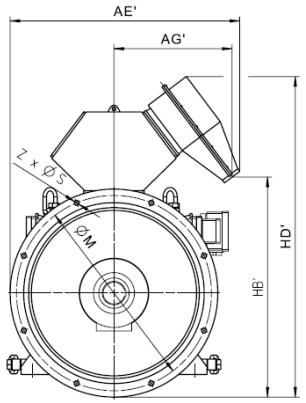

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 456-4AA84-4AA0	5700	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 456-4AA84-4CA0	5900	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 502-4AA84-4AA0	6700	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 502-4AA84-4CA0	6900	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 504-4AA84-4AA0	7100	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 504-4AA84-4CA0	7400	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 506-4AA84-4AA0	7500	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 506-4AA84-4CA0	7800	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 560-4AA84-4AA0	8600	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 560-4AA84-4CA0	8900	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 562-4AA84-4AA0	9100	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 562-4AA84-4CA0	9400	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 564-4AA84-4AA0	9500	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 564-4AA84-4CA0	9800	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 566-4AA84-4AA0	9900	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 566-4AA84-4CA0	10300	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
6-pole													
1NB1 404-6AA84-4AA0	4100	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 404-6AA84-4CA0	4300	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 406-6AA84-4AA0	4400	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 406-6AA84-4CA0	4500	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 454-6AA84-4AA0	5300	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 454-6AA84-4CA0	5500	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8

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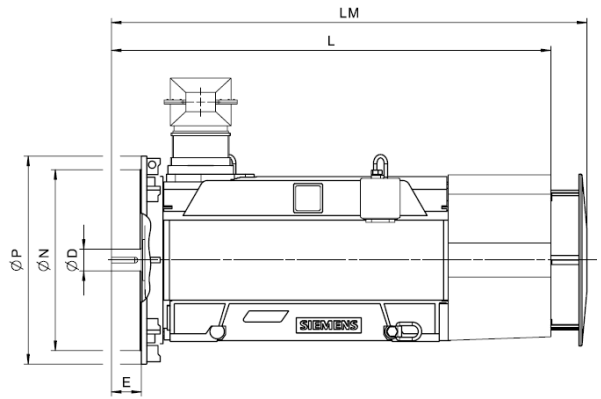

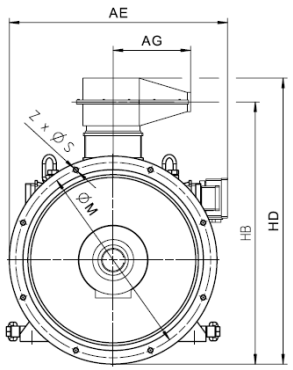

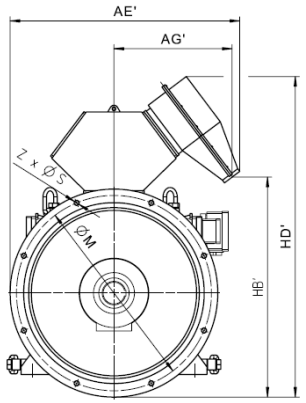

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 456-6AA84-4AA0	5700	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 456-6AA84-4CA0	5900	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 500-6AA84-4AA0	6500	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 500-6AA84-4CA0	6700	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 502-6AA84-4AA0	6800	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 502-6AA84-4CA0	7000	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 504-6AA84-4AA0	7200	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 504-6AA84-4CA0	7400	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 506-6AA84-4AA0	7600	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 506-6AA84-4CA0	7800	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 562-6AA84-4CA0	9600	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 564-6AA84-4CA0	10200	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 566-6AA84-4CA0	10700	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
8-pole													
1NB1 404-8AA84-4AA0	4100	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 404-8AA84-4CA0	4200	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 406-8AA84-4AA0	4300	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 406-8AA84-4CA0	4400	1210	710	120	1434	1614	2242	2392	940	880	1000	24	8
1NB1 452-8AA84-4AA0	5000	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 452-8AA84-4CA0	5200	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 454-8AA84-4AA0	5300	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 454-8AA84-4CA0	5500	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 456-8AA84-4AA0	5700	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8

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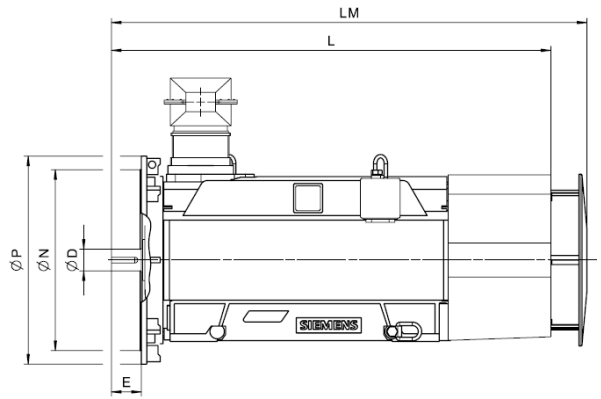

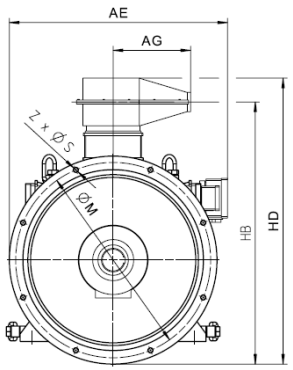

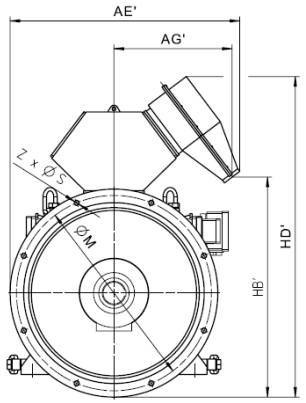

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 456-8AA84-4CA0	5800	1285	710	120	1552	1732	2434	2634	1080	1000	1150	28	8
1NB1 502-8AA84-4AA0	6800	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 502-8AA84-4CA0	7000	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 504-8AA84-4AA0	7100	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 504-8AA84-4CA0	7400	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 506-8AA84-4AA0	7600	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 506-8AA84-4CA0	7800	1335	710	140	1663	1843	2622	2822	1180	1120	1250	28	16
1NB1 562-8AA84-4CA0	9600	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 564-8AA84-4CA0	10100	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16
1NB1 566-8AA84-4CA0	10700	1410	710	160	1802	1982	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3000 rpm at 50 Hz																		
260	**1NC1 350-2AA60-4AA0**	2979	32	94.7	95.4	95.6	94.9	0.82	0.83	0.82	0.75	833	2.40	1.10	5.2	3	40	1.00
300	**1NC1 352-2AA60-4AA0**	2981	36	95.2	95.7	96.0	95.2	0.84	0.84	0.82	0.74	961	2.65	1.30	5.7	4	55	1.00
360	**1NC1 354-2AA60-4AA0**	2980	42	95.3	96.0	96.3	95.8	0.85	0.86	0.85	0.80	1154	2.45	1.20	5.3	4	65	1.00
410	**1NC1 356-2AA60-4AA0**	2981	47	95.5	96.2	96.5	96.0	0.86	0.87	0.86	0.80	1313	2.65	1.30	5.8	5	65	1.00
460	**1NC1 358-2AA60-4AA0**	2981	52	95.7	96.4	96.7	96.3	0.87	0.88	0.87	0.81	1474	2.70	1.35	5.9	5	75	1.00
500	**1NC1 402-2AA60-4AG0**	2977	58	95.6	96.0	96.2	95.8	0.86	0.87	0.87	0.83	1604	2.20	0.85	4.7	8	80	0.95
500	**1NC1 402-2AA60-4CG0**	2977	56	95.7	96.1	96.2	95.8	0.89	0.89	0.88	0.84	1604	2.65	0.90	5.8	10	115	1.00
560	**1NC1 404-2AA60-4AG0**	2977	64	95.7	96.2	96.4	96.1	0.86	0.87	0.87	0.84	1796	2.25	0.85	4.7	9	75	1.00
560	**1NC1 404-2AA60-4CG0**	2978	62	95.9	96.2	96.4	96.0	0.90	0.90	0.89	0.85	1796	2.70	0.90	5.9	11	120	1.00
630	**1NC1 406-2AA60-4AG0**	2980	71	96.2	96.5	96.6	96.2	0.87	0.88	0.87	0.83	2019	2.50	1.05	5.3	10	120	1.00
630	**1NC1 406-2AA60-4CG0**	2981	70	96.3	96.5	96.6	96.2	0.90	0.90	0.89	0.84	2018	3.00	1.10	6.6	12	150	1.00
710	**1NC1 452-2AA60-4AG0**	2984	80	96.5	96.8	96.8	96.3	0.88	0.88	0.87	0.82	2272	2.55	1.25	6.0	11	85	1.00
710	**1NC1 452-2AA60-4CG0**	2983	79	96.4	96.7	96.7	96.1	0.89	0.89	0.88	0.83	2273	2.75	0.95	6.4	15	150	1.00
800	**1NC1 454-2AA60-4AG0**	2984	89	96.5	96.9	96.9	96.5	0.89	0.89	0.88	0.84	2560	2.60	1.20	6.1	13	90	1.00
800	**1NC1 454-2AA60-4CG0**	2983	88	96.5	96.8	96.8	96.4	0.90	0.90	0.89	0.84	2561	2.80	0.90	6.4	17	150	1.00
900	**1NC1 456-2AA60-4AG0**	2984	99	96.7	97.0	97.1	96.7	0.89	0.90	0.88	0.84	2880	2.65	1.40	6.2	15	85	1.00
900	**1NC1 456-2AA60-4CG0**	2983	98	96.6	96.9	97.0	96.6	0.91	0.91	0.89	0.85	2881	2.85	1.00	6.6	19	200	1.00
1000	**1NC1 502-2AA60-4CG0**	2987	112	96.5	96.6	96.5	95.9	0.89	0.89	0.88	0.83	3197	2.95	0.75	6.3	24	200	1.00
1000	**1NC1 502-2AA60-4AG0**	2986	114	96.5	96.7	96.7	96.1	0.87	0.87	0.87	0.83	3198	2.60	0.75	5.7	19	85	0.90
1120	**1NC1 504-2AA60-4CG0**	2987	124	96.7	96.8	96.7	96.1	0.90	0.90	0.89	0.84	3581	3.10	0.80	6.6	27	200	1.00
1120	**1NC1 504-2AA60-4AG0**	2986	124	96.7	96.9	96.9	96.4	0.88	0.89	0.88	0.84	3582	2.80	0.85	6.0	21	90	1.00
1250	**1NC1 506-2AA60-4AG0**	2988	140	96.9	97.1	97.0	96.5	0.89	0.89	0.88	0.83	3995	3.10	1.00	6.8	24	125	1.00
1250	**1NC1 506-2AA60-4CG0**	2989	138	96.9	97.0	96.9	96.3	0.91	0.90	0.89	0.84	3994	3.45	0.85	7.4	31	250	1.00
1400	**1NC1 564-2AA60-4CG0**	2988	152	96.8	97.0	96.9	96.3	0.90	0.91	0.91	0.88	4474	2.55	0.60	5.7	46	400	0.80
1600	**1NC1 566-2AA60-4CG0**	2990	174	97.1	97.2	97.1	96.5	0.91	0.91	0.91	0.87	5110	2.90	0.70	6.4	51	400	0.95
4-pole: n_{sync} = 1500 rpm at 50 Hz																		
260	**1NC1 350-4AA60-4AA0**	1486	33	94.8	95.3	95.5	94.9	0.81	0.80	0.74	0.68	1671	2.80	1.40	5.8	4	350	1.00
280	**1NC1 352-4AA60-4AA0**	1488	35	95.2	95.6	95.6	95.1	0.82	0.81	0.74	0.67	1797	3.05	1.55	6.3	5	450	1.00
340	**1NC1 354-4AA60-4AA0**	1487	42	95.2	95.7	95.9	95.4	0.83	0.82	0.76	0.70	2183	2.90	1.50	6.1	5	450	1.00
400	**1NC1 356-4AA60-4AA0**	1488	48	95.5	95.9	96.1	95.7	0.84	0.83	0.76	0.71	2567	3.00	1.55	6.3	6	550	1.00
500	**1NC1 358-4AA60-4AA0**	1488	60	95.7	96.2	96.4	96.1	0.85	0.84	0.77	0.73	3209	3.00	1.60	6.3	7	500	1.00
560	**1NC1 404-4AA60-4AG0**	1489	67	95.8	96.2	96.4	96.0	0.84	0.84	0.82	0.76	3591	2.55	1.15	5.3	11	550	1.00
560	**1NC1 404-4AA60-4CG0**	1489	66	95.9	96.2	96.4	96.0	0.85	0.85	0.83	0.76	3591	2.85	0.85	5.8	14	650	1.00
630	**1NC1 406-4AA60-4AG0**	1489	74	96.0	96.4	96.5	96.1	0.85	0.85	0.82	0.75	4040	2.75	1.30	5.7	12	500	1.00
630	**1NC1 406-4AA60-4CG0**	1490	74	96.1	96.4	96.5	96.1	0.86	0.85	0.83	0.76	4038	3.05	0.95	6.2	16	750	1.00
710	**1NC1 452-4AA60-4AG0**	1490	85	96.1	96.5	96.6	96.2	0.83	0.83	0.81	0.74	4550	2.40	1.15	5.4	18	650	1.00

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SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
710	**1NC1 452-4AA60-4CG0**	1491	84	96.2	96.5	96.6	96.1	0.85	0.84	0.82	0.74	4547	2.60	0.75	5.9	23	850	1.00
800	**1NC1 454-4AA60-4AG0**	1491	96	96.3	96.7	96.8	96.3	0.83	0.83	0.81	0.74	5124	2.50	1.20	5.6	20	650	1.00
800	**1NC1 454-4AA60-4CG0**	1492	94	96.4	96.7	96.7	96.2	0.85	0.85	0.82	0.74	5120	2.70	0.80	6.2	26	950	1.00
900	**1NC1 456-4AA60-4AG0**	1491	106	96.4	96.7	96.9	96.5	0.84	0.84	0.81	0.74	5764	2.50	1.20	5.7	24	800	1.00
900	**1NC1 456-4AA60-4CG0**	1492	106	96.5	96.8	96.8	96.4	0.86	0.85	0.82	0.75	5760	2.75	0.80	6.3	30	1100	1.00
1000	**1NC1 502-4AA60-4CG0**	1491	118	96.1	96.4	96.4	95.9	0.84	0.85	0.84	0.79	6405	2.20	0.65	5.3	35	750	1.00
1000	**1NC1 502-4AA60-4AG0**	1490	118	95.9	96.3	96.3	95.8	0.83	0.84	0.83	0.78	6409	2.10	0.80	4.8	26	750	0.85
1120	**1NC1 504-4AA60-4CG0**	1492	130	96.4	96.6	96.6	96.1	0.85	0.86	0.84	0.78	7168	2.50	0.70	6.0	40	1050	1.00
1120	**1NC1 504-4AA60-4AG0**	1491	132	96.3	96.5	96.5	96.0	0.84	0.85	0.83	0.77	7173	2.35	0.90	5.3	31	800	1.00
1250	**1NC1 506-4AA60-4CG0**	1493	142	96.6	96.7	96.7	96.1	0.87	0.87	0.84	0.77	7995	2.80	0.85	6.7	45	1300	1.00
1250	**1NC1 506-4AA60-4AG0**	1492	146	96.4	96.6	96.6	96.1	0.85	0.85	0.83	0.76	8000	2.60	1.05	5.9	35	850	1.00
1400	**1NC1 560-4AA60-4CG0**	1492	162	96.5	96.7	96.6	95.9	0.84	0.86	0.84	0.79	8960	2.25	0.70	5.6	60	950	1.00
1400	**1NC1 560-4AA60-4AG0**	1492	164	96.4	96.6	96.5	95.8	0.83	0.85	0.83	0.77	8960	2.15	0.90	5.3	44	950	0.90
1600	**1NC1 562-4AA60-4CG0**	1493	184	96.7	96.9	96.8	96.2	0.85	0.86	0.85	0.79	10234	2.30	0.70	5.9	68	1150	1.00
1600	**1NC1 562-4AA60-4AG0**	1493	188	96.6	96.8	96.7	96.1	0.84	0.85	0.83	0.78	10234	2.20	0.90	5.5	50	900	0.95
1800	**1NC1 564-4AA60-4CG0**	1493	205	96.9	97.1	97.1	96.5	0.85	0.87	0.85	0.80	11513	2.30	0.65	5.9	75	1250	1.00
1800	**1NC1 564-4AA60-4AG0**	1493	210	96.8	97.0	97.0	96.4	0.84	0.85	0.84	0.78	11513	2.20	0.90	5.5	56	900	0.95
2000	**1NC1 566-4AA60-4CG0**	1494	225	97.1	97.3	97.2	96.6	0.86	0.87	0.85	0.79	12784	2.60	0.75	6.5	83	1600	1.00
2000	**1NC1 566-4AA60-4AG0**	1494	230	97.1	97.2	97.1	96.5	0.85	0.86	0.84	0.77	12784	2.45	1.00	6.1	62	900	1.00
6-pole: n_{sync} = 1000 rpm at 50 Hz																		
200	**1NC1 352-6AA60-4AA0**	994	26	95.3	95.6	95.8	95.2	0.79	0.76	0.65	0.58	1921	3.45	1.65	6.8	10	650	1.00
250	**1NC1 354-6AA60-4AA0**	992	32	95.4	96.0	96.4	96.2	0.79	0.78	0.69	0.62	2407	2.90	1.35	6.0	10	650	1.00
300	**1NC1 356-6AA60-4AA0**	992	38	95.5	96.1	96.5	96.5	0.80	0.79	0.70	0.65	2888	2.85	1.35	5.9	12	700	1.00
360	**1NC1 358-6AA60-4AA0**	992	46	95.7	96.2	96.7	96.6	0.81	0.79	0.70	0.64	3465	2.95	1.35	6.1	14	900	1.00
450	**1NC1 404-6AA60-4AG0**	992	55	95.4	95.9	96.2	95.9	0.82	0.82	0.80	0.72	4332	2.45	1.20	5.3	21	1000	1.00
450	**1NC1 404-6AA60-4CG0**	993	54	95.5	95.9	96.2	95.8	0.84	0.83	0.80	0.72	4327	2.55	0.90	5.2	26	800	1.00
500	**1NC1 406-6AA60-4AG0**	993	61	95.7	96.1	96.4	96.0	0.82	0.82	0.79	0.71	4808	2.65	1.25	5.7	24	1500	1.00
500	**1NC1 406-6AA60-4CG0**	994	60	95.8	96.1	96.3	95.8	0.84	0.83	0.79	0.71	4803	2.70	0.95	5.7	30	1250	1.00
560	**1NC1 452-6AA60-4AG0**	993	70	95.7	96.2	96.3	95.9	0.80	0.80	0.78	0.70	5385	2.35	1.15	5.6	26	2300	1.00
560	**1NC1 452-6AA60-4CG0**	993	67	95.9	96.3	96.3	96.0	0.84	0.83	0.80	0.72	5385	2.55	0.80	5.4	34	1850	1.00
630	**1NC1 454-6AA60-4AG0**	993	78	95.8	96.3	96.4	96.1	0.81	0.81	0.79	0.73	6058	2.25	1.10	5.3	30	2400	1.00
630	**1NC1 454-6AA60-4CG0**	993	75	96.0	96.4	96.5	96.2	0.84	0.84	0.81	0.74	6058	2.45	0.75	5.2	39	1900	1.00
710	**1NC1 456-6AA60-4AG0**	994	87	96.2	96.5	96.4	95.9	0.82	0.81	0.77	0.68	6821	2.75	1.35	6.5	35	3550	1.00
710	**1NC1 456-6AA60-4CG0**	994	85	96.3	96.5	96.4	96.0	0.84	0.83	0.79	0.69	6821	2.95	0.95	6.2	46	2650	1.00
800	**1NC1 500-6AA60-4CG0**	994	93	95.9	96.4	96.6	96.4	0.86	0.86	0.85	0.79	7686	2.25	0.65	5.5	57	1250	1.00
800	**1NC1 500-6AA60-4AG0**	992	99	95.5	96.2	96.6	96.5	0.80	0.81	0.81	0.77	7701	1.85	1.05	4.9	44	1650	0.85
900	**1NC1 502-6AA60-4CG0**	995	104	96.2	96.6	96.8	96.5	0.87	0.86	0.85	0.79	8638	2.40	0.70	5.8	65	1850	1.00

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SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
900	**1NC1 502-6AA60-4AG0**	993	110	95.9	96.4	96.7	96.6	0.81	0.82	0.81	0.77	8655	2.00	1.15	5.2	51	1800	0.95
1000	**1NC1 504-6AA60-4CG0**	995	116	96.4	96.7	96.9	96.6	0.87	0.86	0.84	0.78	9597	2.55	0.70	6.2	74	2150	1.00
1000	**1NC1 504-6AA60-4AG0**	993	122	96.1	96.6	96.9	96.7	0.82	0.82	0.81	0.76	9617	2.10	1.15	5.5	58	1950	1.00
1120	**1NC1 506-6AA60-4CG0**	995	128	96.5	96.8	97.0	96.8	0.87	0.87	0.85	0.79	10749	2.45	0.70	6.0	83	2300	1.00
1120	**1NC1 506-6AA60-4AG0**	993	134	96.1	96.7	97.0	96.9	0.82	0.83	0.82	0.78	10771	2.05	1.15	5.3	65	2100	0.95
1250	**1NC1 562-6AA60-4CG0**	995	144	96.8	97.0	97.1	96.7	0.87	0.86	0.84	0.78	11997	2.90	0.60	5.9	116	3200	1.00
1400	**1NC1 564-6AA60-4CG0**	995	160	96.8	97.1	97.2	96.8	0.87	0.87	0.85	0.80	13436	2.85	0.60	5.8	132	2900	1.00
1600	**1NC1 566-6AA60-4CG0**	996	182	97.0	97.3	97.3	96.9	0.87	0.87	0.85	0.79	15340	3.05	0.70	6.3	147	4000	1.00
8-pole: n_{sync} = 750 rpm at 50 Hz																		
160	**1NC1 354-8AA60-4AA0**	740	21	93.6	94.6	95.3	95.5	0.79	0.77	0.68	0.62	2065	2.75	1.00	5.1	10	550	1.00
200	**1NC1 356-8AA60-4AA0**	741	26	93.9	94.7	95.3	95.5	0.80	0.78	0.68	0.62	2577	2.90	1.10	5.4	12	650	1.00
250	**1NC1 358-8AA60-4AA0**	742	33	94.4	95.1	95.6	95.6	0.79	0.77	0.66	0.59	3217	3.20	1.15	5.7	14	1050	1.00
335	**1NC1 404-8AA60-4AG0**	742	42	95.1	95.6	95.8	95.4	0.81	0.80	0.76	0.65	4311	2.60	1.10	5.2	20	1550	1.00
335	**1NC1 404-8AA60-4CG0**	744	42	95.3	95.6	95.7	95.1	0.81	0.79	0.74	0.63	4300	2.40	0.90	4.6	26	1300	1.00
375	**1NC1 406-8AA60-4AG0**	743	48	95.4	95.8	95.9	95.4	0.81	0.79	0.75	0.64	4820	2.80	1.15	5.7	24	2350	1.00
375	**1NC1 406-8AA60-4CG0**	744	48	95.5	95.8	95.8	95.1	0.81	0.79	0.73	0.62	4813	2.55	0.95	4.9	30	1950	1.00
470	**1NC1 452-8AA60-4AG0**	743	61	95.1	95.7	96.0	95.6	0.78	0.77	0.75	0.68	6041	2.15	0.95	4.6	26	3100	1.00
470	**1NC1 452-8AA60-4CG0**	744	59	95.3	95.8	95.9	95.5	0.81	0.80	0.77	0.68	6032	2.20	0.75	4.2	35	2450	1.00
530	**1NC1 454-8AA60-4AG0**	744	68	95.4	95.9	96.0	95.6	0.79	0.78	0.75	0.66	6803	2.35	1.10	4.9	30	3150	1.00
530	**1NC1 454-8AA60-4CG0**	744	66	95.5	95.9	96.0	95.5	0.81	0.80	0.76	0.67	6803	2.35	0.85	4.5	39	2450	1.00
600	**1NC1 456-8AA60-4AG0**	743	76	95.4	96.0	96.2	95.8	0.80	0.79	0.76	0.69	7711	2.25	1.05	4.8	35	3050	1.00
600	**1NC1 456-8AA60-4CG0**	744	75	95.6	96.0	96.1	95.7	0.82	0.80	0.77	0.69	7701	2.30	0.80	4.4	46	2400	1.00
630	**1NC1 502-8AA60-4CG0**	745	75	95.4	95.8	95.7	95.3	0.85	0.84	0.81	0.73	8075	2.45	0.75	5.3	65	2500	1.00
630	**1NC1 502-8AA60-4AG0**	744	79	95.3	95.8	96.0	95.7	0.81	0.80	0.78	0.71	8086	2.10	0.75	5.0	50	2400	1.00
710	**1NC1 504-8AA60-4CG0**	745	84	95.5	95.9	95.9	95.4	0.86	0.85	0.82	0.74	9101	2.45	0.75	5.4	73	2600	1.00
710	**1NC1 504-8AA60-4AG0**	744	88	95.4	95.9	96.1	95.8	0.81	0.81	0.79	0.72	9113	2.10	0.75	5.0	56	2550	1.00
800	**1NC1 506-8AA60-4CG0**	745	94	95.5	95.9	95.9	95.5	0.86	0.85	0.81	0.73	10254	2.50	0.80	5.6	83	2450	1.00
800	**1NC1 506-8AA60-4AG0**	744	98	95.4	96.0	96.1	95.9	0.82	0.82	0.79	0.72	10268	2.20	0.75	5.2	64	2450	1.00
900	**1NC1 562-8AA60-4CG0**	746	108	96.4	96.7	96.7	96.3	0.84	0.83	0.80	0.71	11521	2.75	0.65	5.4	115	5900	1.00
1000	**1NC1 564-8AA60-4CG0**	746	120	96.5	96.7	96.8	96.4	0.85	0.83	0.80	0.71	12801	2.80	0.70	5.5	132	6550	1.00
1120	**1NC1 566-8AA60-4CG0**	746	134	96.7	96.9	96.9	96.4	0.85	0.83	0.79	0.70	14337	3.00	0.75	5.9	147	8650	1.00

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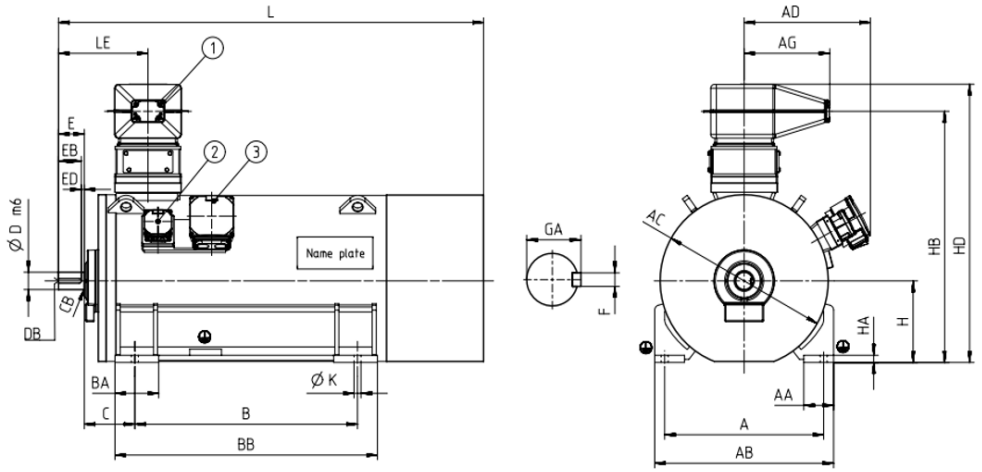

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 350-2AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 352-2AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-2AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-2AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-2AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 402-2AA60-4AG0	3405	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 402-2AA60-4CG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 404-2AA60-4AG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 404-2AA60-4CG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 406-2AA60-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 406-2AA60-4CG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 452-2AA60-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	o.r.	1322	o.r.	1455	2274	o.r.
1NC1 452-2AA60-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	o.r.	1322	o.r.	1455	2274	o.r.
1NC1 454-2AA60-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	o.r.	1322	o.r.	1455	2274	o.r.
1NC1 454-2AA60-4CG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	o.r.	1322	o.r.	1455	2274	o.r.
1NC1 456-2AA60-4AG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	o.r.	1322	o.r.	1455	2274	o.r.
1NC1 456-2AA60-4CG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	o.r.	1322	o.r.	1455	2274	o.r.
1NC1 502-2AA60-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	o.r.	1437	o.r.	1570	2432	o.r.
1NC1 502-2AA60-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	o.r.	1437	o.r.	1570	2432	o.r.
1NC1 504-2AA60-4CG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	o.r.	1437	o.r.	1570	2432	o.r.

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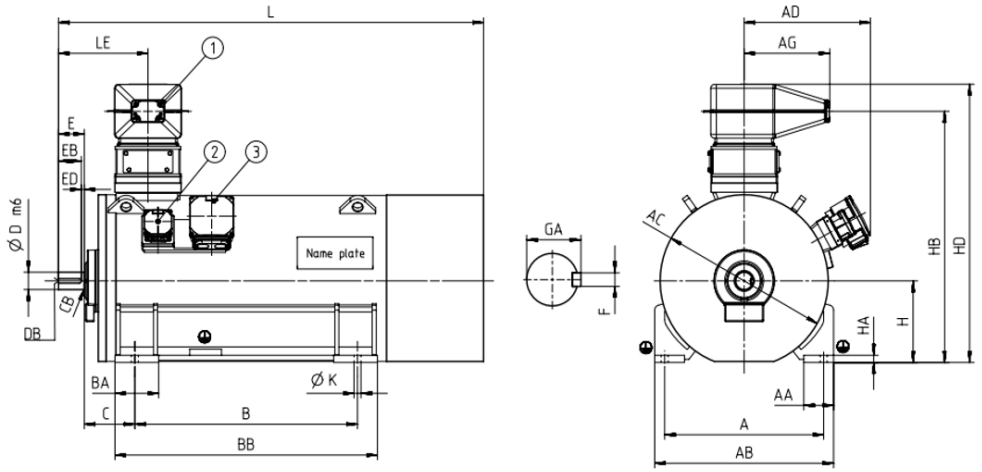

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 504-2AA60-4AG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	o.r.	1437	o.r.	1570	2432	o.r.
1NC1 506-2AA60-4AG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	o.r.	1437	o.r.	1570	2432	o.r.
1NC1 506-2AA60-4CG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	o.r.	1437	o.r.	1570	2432	o.r.
1NC1 564-2AA60-4CG0	7995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	o.r.	1557	o.r.	1690	2598	o.r.
1NC1 566-2AA60-4CG0	8495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	o.r.	1557	o.r.	1690	2598	o.r.
4-pole																			
1NC1 350-4AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 352-4AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-4AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-4AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-4AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-4AA60-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 404-4AA60-4CG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-4AA60-4AG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-4AA60-4CG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 452-4AA60-4AG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 452-4AA60-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-4AA60-4AG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-4AA60-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-4AA60-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-4AA60-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.

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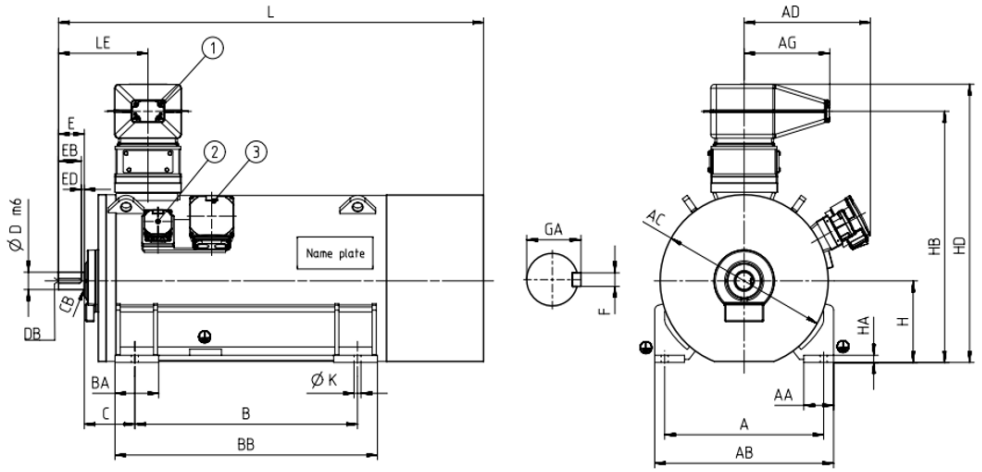

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 502-4AA60-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 502-4AA60-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-4AA60-4CG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-4AA60-4AG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-4AA60-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-4AA60-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 560-4AA60-4CG0	7695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 560-4AA60-4AG0	7395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 562-4AA60-4CG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 562-4AA60-4AG0	7795	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 564-4AA60-4CG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 564-4AA60-4AG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 566-4AA60-4CG0	9095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 566-4AA60-4AG0	8795	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
6-pole																			
1NC1 352-6AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-6AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-6AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-6AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-6AA60-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 404-6AA60-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.

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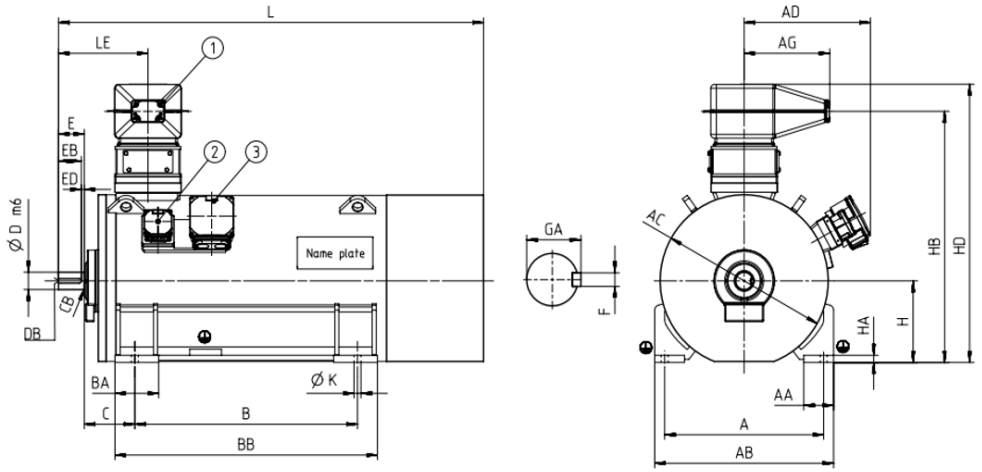

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 406-6AA60-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-6AA60-4CG0	4205	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 452-6AA60-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 452-6AA60-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-6AA60-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-6AA60-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-6AA60-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-6AA60-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 500-6AA60-4CG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 500-6AA60-4AG0	5475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 502-6AA60-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 502-6AA60-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-6AA60-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-6AA60-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-6AA60-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-6AA60-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 562-6AA60-4CG0	8395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 564-6AA60-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 566-6AA60-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
8-pole																			
1NC1 354-8AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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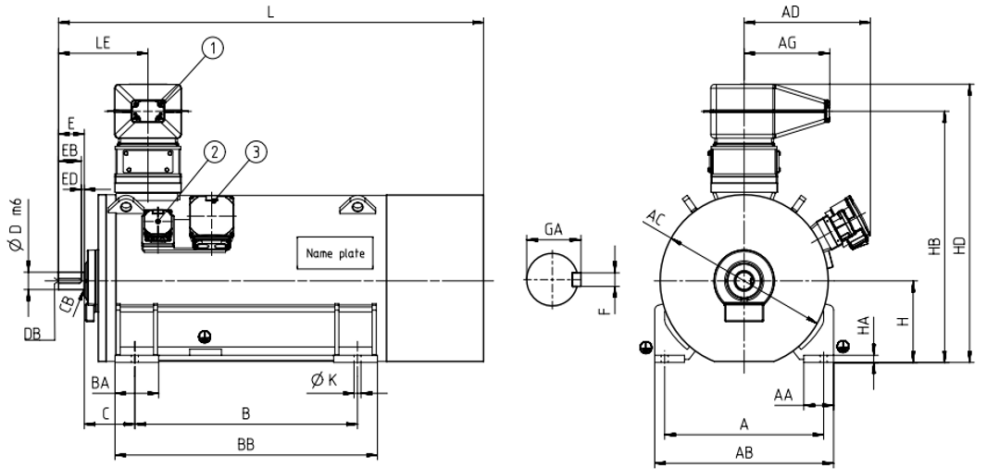

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 356-8AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-8AA60-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-8AA60-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 404-8AA60-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-8AA60-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-8AA60-4CG0	4105	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 452-8AA60-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 452-8AA60-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-8AA60-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-8AA60-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-8AA60-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-8AA60-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 502-8AA60-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 502-8AA60-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-8AA60-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-8AA60-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-8AA60-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-8AA60-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 562-8AA60-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 564-8AA60-4CG0	8895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 566-8AA60-4CG0	9495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.

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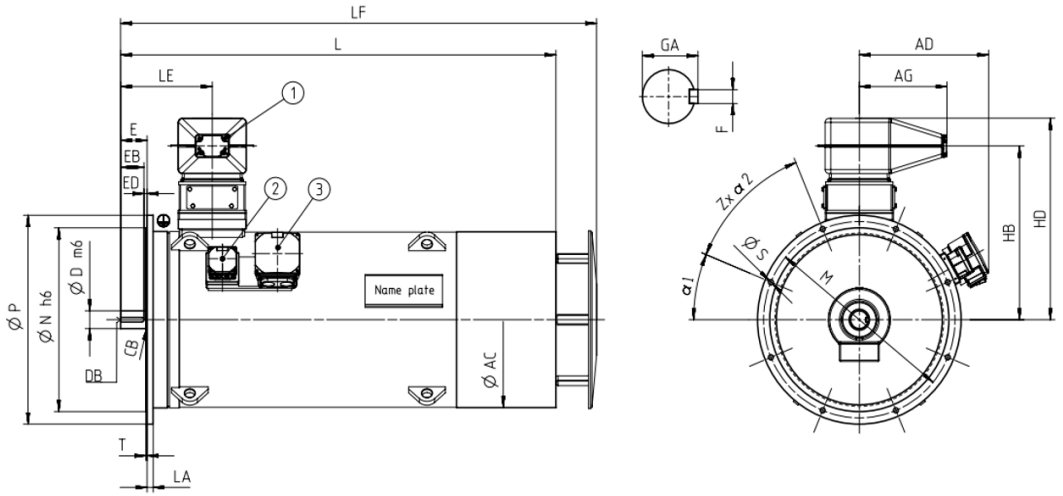

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z	
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
2-pole														
1NC1 350-2AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 352-2AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 354-2AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 356-2AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 358-2AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 402-2AA64-4AG0	4000	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8	
1NC1 402-2AA64-4CG0	4100	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8	
1NC1 404-2AA64-4AG0	4100	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8	
1NC1 404-2AA64-4CG0	4200	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8	
1NC1 406-2AA64-4AG0	4300	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8	
1NC1 406-2AA64-4CG0	4400	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8	
4-pole														
1NC1 350-4AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 352-4AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 354-4AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 356-4AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 358-4AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	
1NC1 404-4AA64-4AG0	4200	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8	
1NC1 404-4AA64-4CG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8	
1NC1 406-4AA64-4AG0	4400	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8	

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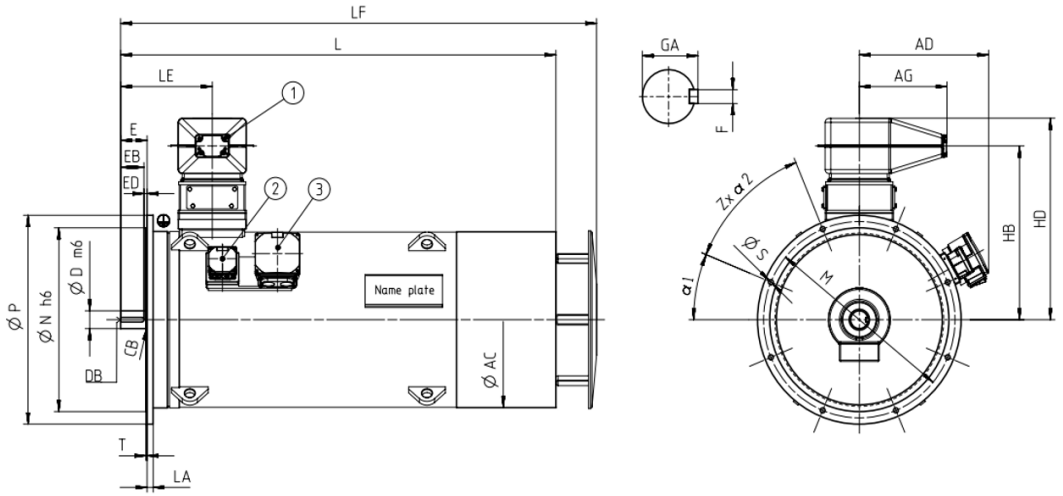

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NC1 406-4AA64-4CG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-4AA64-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AA64-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AA64-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AA64-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AA64-4AG0	5800	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AA64-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AA64-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AA64-4AG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AA64-4CG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AA64-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AA64-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AA64-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 560-4AA64-4CG0	8900	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 560-4AA64-4AG0	8700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AA64-4CG0	9400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AA64-4AG0	9100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AA64-4CG0	9900	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AA64-4AG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AA64-4CG0	10400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AA64-4AG0	10000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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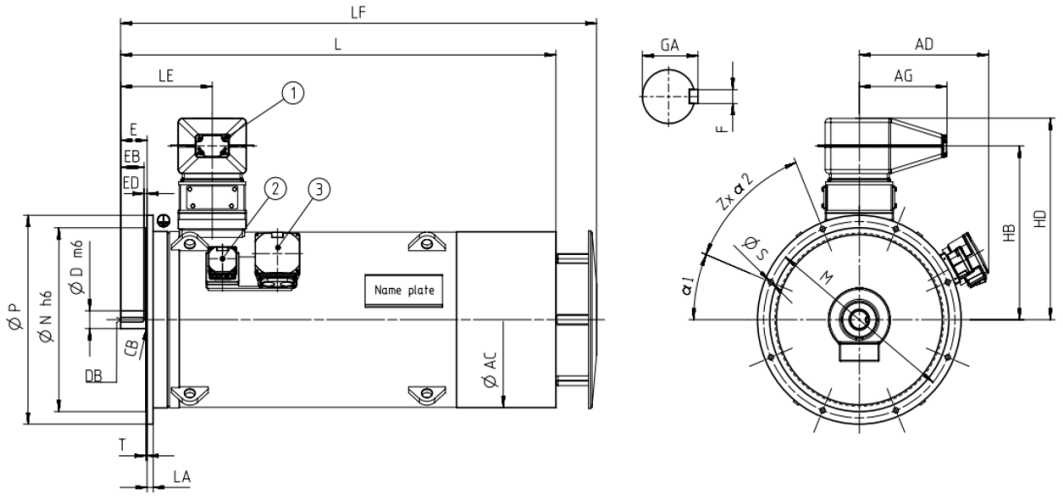

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
6-pole													
1NC1 352-6AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-6AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-6AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-6AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-6AA64-4AG0	4400	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-6AA64-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AA64-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AA64-4CG0	4800	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-6AA64-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AA64-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AA64-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AA64-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AA64-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AA64-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AA64-4CG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 500-6AA64-4AG0	6500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AA64-4CG0	7000	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AA64-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AA64-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AA64-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16

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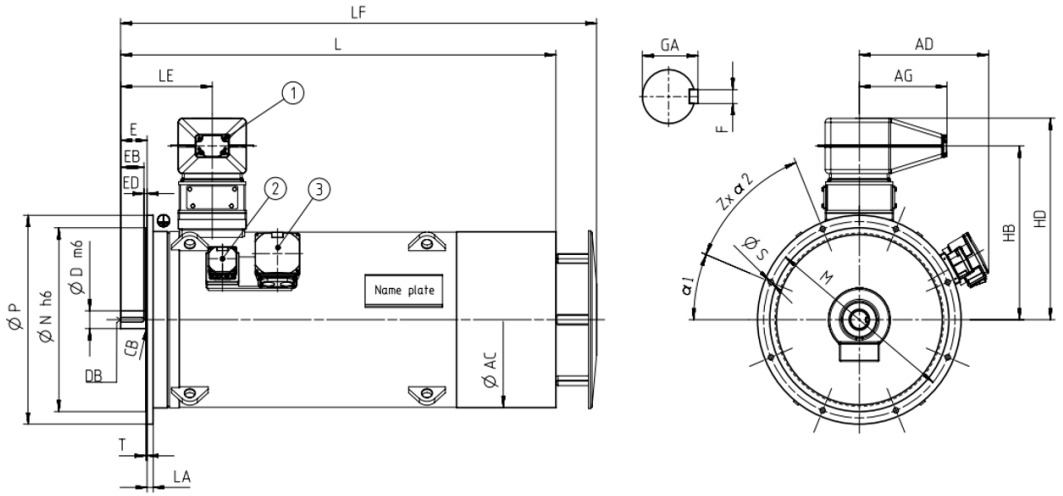

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NC1 506-6AA64-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AA64-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-6AA64-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AA64-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AA64-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole														
1NC1 354-8AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-8AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-8AA64-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-8AA64-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-8AA64-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AA64-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AA64-4CG0	4700	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-8AA64-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AA64-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AA64-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AA64-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AA64-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AA64-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-8AA64-4CG0	7000	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AA64-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16

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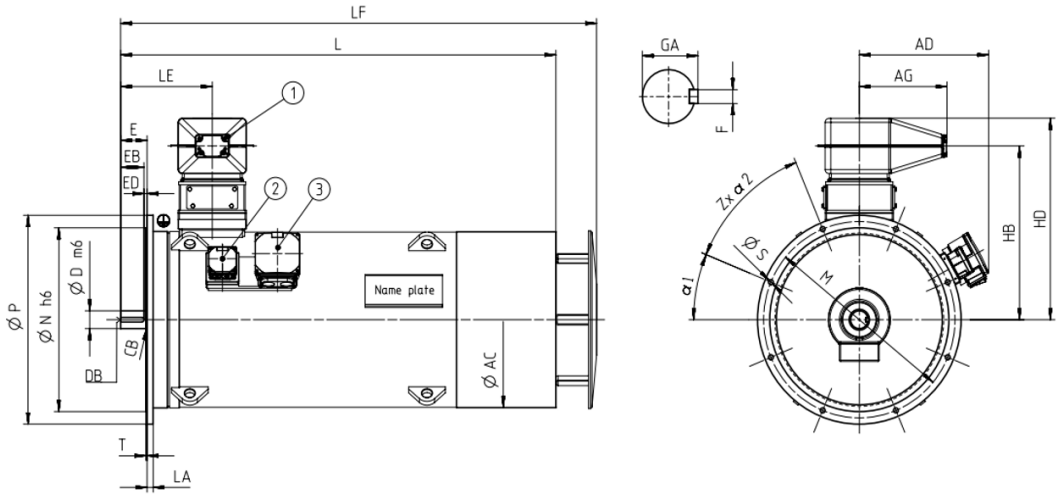

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NC1 504-8AA64-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AA64-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AA64-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AA64-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AA64-4CG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-8AA64-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AA64-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3600 rpm at 60 Hz																		
280	**1NC1 350-2AA10-4AA0**	3578	31	94.5	95.1	95.2	94.1	0.81	0.83	0.83	0.78	747	2.20	1.05	4.9	3	25	1.00
330	**1NC1 352-2AA10-4AA0**	3579	36	95.0	95.5	95.6	94.6	0.83	0.84	0.84	0.79	880	2.35	1.20	5.4	4	35	1.00
400	**1NC1 354-2AA10-4AA0**	3578	42	95.2	95.8	96.0	95.3	0.84	0.86	0.86	0.82	1068	2.20	1.10	4.9	4	35	1.00
450	**1NC1 356-2AA10-4AA0**	3579	46	95.5	96.1	96.2	95.5	0.86	0.88	0.87	0.83	1201	2.40	1.20	5.4	5	40	1.00
500	**1NC1 358-2AA10-4AA0**	3580	52	95.7	96.3	96.5	95.9	0.87	0.88	0.88	0.83	1334	2.50	1.25	5.6	5	50	1.00
560	**1NC1 402-2AA10-4AG0**	3577	59	95.6	95.8	95.8	95.0	0.85	0.86	0.86	0.83	1495	2.15	0.90	4.7	8	55	0.85
560	**1NC1 402-2AA10-4CG0**	3577	57	95.8	95.9	95.9	95.1	0.88	0.89	0.88	0.84	1495	2.60	0.90	5.8	10	100	1.00
630	**1NC1 404-2AA10-4AG0**	3578	66	95.8	96.1	96.0	95.3	0.86	0.87	0.87	0.84	1681	2.25	0.95	4.9	9	55	0.90
630	**1NC1 404-2AA10-4CG0**	3578	64	96.0	96.1	96.1	95.4	0.89	0.89	0.89	0.85	1681	2.70	0.95	6.0	11	105	1.00
710	**1NC1 406-2AA10-4AG0**	3581	72	96.1	96.3	96.2	95.5	0.88	0.89	0.88	0.84	1893	2.60	1.05	5.7	10	65	1.00
710	**1NC1 406-2AA10-4CG0**	3581	71	96.2	96.4	96.3	95.6	0.91	0.91	0.89	0.84	1893	3.10	1.00	6.9	12	110	1.00
800	**1NC1 452-2AA10-4CG0**	3582	82	96.2	96.4	96.2	95.5	0.89	0.89	0.88	0.84	2133	2.55	0.85	6.0	15	105	1.00
900	**1NC1 454-2AA10-4CG0**	3582	91	96.4	96.6	96.5	95.8	0.90	0.90	0.89	0.85	2399	2.60	0.85	6.1	17	115	1.00
1000	**1NC1 456-2AA10-4CG0**	3583	100	96.6	96.7	96.6	96.0	0.90	0.90	0.89	0.85	2665	2.80	0.95	6.6	19	130	1.00
4-pole: n_{sync} = 1800 rpm at 60 Hz																		
300	**1NC1 350-4AA10-4AA0**	1784	34	94.7	95.1	95.1	94.4	0.82	0.82	0.77	0.74	1606	2.40	1.20	5.2	4	200	1.00
330	**1NC1 352-4AA10-4AA0**	1785	36	95.0	95.3	95.4	94.7	0.83	0.83	0.77	0.74	1765	2.55	1.30	5.6	5	250	1.00
370	**1NC1 354-4AA10-4AA0**	1786	41	95.1	95.5	95.5	94.9	0.83	0.83	0.78	0.74	1978	2.65	1.35	5.8	5	300	1.00
440	**1NC1 356-4AA10-4AA0**	1786	48	95.4	95.8	95.9	95.3	0.84	0.84	0.79	0.75	2353	2.70	1.40	5.9	6	350	1.00
550	**1NC1 358-4AA10-4AA0**	1786	59	95.7	96.1	96.2	95.8	0.85	0.85	0.80	0.77	2941	2.70	1.40	5.9	7	350	1.00
630	**1NC1 404-4AA10-4AG0**	1788	67	95.9	96.2	96.2	95.6	0.85	0.85	0.83	0.78	3365	2.45	1.15	5.2	11	300	1.00
630	**1NC1 404-4AA10-4CG0**	1788	67	95.9	96.2	96.2	95.6	0.85	0.85	0.84	0.78	3365	2.70	0.80	5.6	14	400	1.00
710	**1NC1 406-4AA10-4AG0**	1790	77	96.2	96.3	96.2	95.6	0.85	0.84	0.81	0.73	3788	2.90	1.35	6.2	12	250	1.00
710	**1NC1 406-4AA10-4CG0**	1790	76	96.2	96.3	96.3	95.6	0.86	0.85	0.82	0.74	3788	3.20	0.90	6.6	16	550	1.00
800	**1NC1 452-4AA10-4AG0**	1791	88	96.3	96.5	96.4	95.6	0.82	0.82	0.80	0.72	4265	2.50	1.20	5.8	18	350	1.00
800	**1NC1 452-4AA10-4CG0**	1792	87	96.2	96.4	96.3	95.5	0.84	0.83	0.81	0.73	4263	2.70	0.70	6.3	23	550	1.00
900	**1NC1 454-4AA10-4AG0**	1791	98	96.3	96.5	96.5	95.8	0.83	0.83	0.81	0.74	4799	2.50	1.25	5.8	20	350	1.00
900	**1NC1 454-4AA10-4CG0**	1792	96	96.3	96.5	96.4	95.7	0.85	0.85	0.82	0.74	4796	2.70	0.75	6.3	26	600	1.00
1000	**1NC1 456-4AA10-4AG0**	1791	108	96.4	96.7	96.7	96.1	0.84	0.84	0.81	0.75	5332	2.45	1.15	5.7	24	500	1.00
1000	**1NC1 456-4AA10-4CG0**	1792	106	96.4	96.7	96.6	95.9	0.85	0.85	0.82	0.75	5329	2.65	0.70	6.2	30	750	1.00
1120	**1NC1 502-4AA10-4CG0**	1792	120	96.1	96.2	96.0	95.1	0.84	0.85	0.84	0.78	5968	2.30	0.60	5.6	35	500	1.00
1120	**1NC1 502-4AA10-4AG0**	1790	122	95.9	96.0	95.8	94.9	0.83	0.84	0.83	0.77	5975	2.20	0.85	5.1	26	450	0.85
1250	**1NC1 504-4AA10-4CG0**	1792	132	96.3	96.4	96.2	95.4	0.86	0.86	0.85	0.80	6661	2.40	0.65	5.8	40	650	1.00
1250	**1NC1 504-4AA10-4AG0**	1791	134	96.1	96.2	96.1	95.3	0.84	0.85	0.84	0.79	6665	2.25	0.90	5.2	31	450	0.85
1400	**1NC1 506-4AA10-4AG0**	1792	150	96.4	96.5	96.3	95.4	0.85	0.85	0.83	0.77	7460	2.50	1.00	5.8	35	450	1.00
1400	**1NC1 506-4AA10-4CG0**	1793	148	96.5	96.6	96.4	95.6	0.86	0.86	0.85	0.78	7456	2.65	0.70	6.5	45	850	1.00

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SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
1600	**1NC1 560-4AA10-4CG0**	1792	170	96.2	96.3	96.0	95.0	0.82	0.85	0.84	0.79	8526	2.05	0.55	5.4	60	650	0.90
1600	**1NC1 560-4AA10-4AG0**	1792	176	96.1	96.1	95.8	94.6	0.81	0.83	0.83	0.78	8526	2.00	0.80	5.1	44	550	0.80
1800	**1NC1 562-4AA10-4CG0**	1792	190	96.5	96.6	96.3	95.4	0.83	0.86	0.85	0.80	9592	2.15	0.60	5.6	68	750	0.95
1800	**1NC1 562-4AA10-4AG0**	1792	194	96.3	96.4	96.1	95.0	0.82	0.84	0.84	0.79	9592	2.05	0.85	5.3	50	550	0.85
2000	**1NC1 564-4AA10-4CG0**	1793	210	96.7	96.8	96.5	95.7	0.85	0.87	0.86	0.80	10652	2.35	0.70	6.0	75	850	1.00
2000	**1NC1 564-4AA10-4AG0**	1793	210	96.6	96.6	96.3	95.3	0.84	0.86	0.84	0.79	10652	2.25	0.95	5.6	56	500	0.95
2200	**1NC1 566-4AA10-4AG0**	1793	230	96.8	96.8	96.5	95.6	0.85	0.86	0.85	0.79	11717	2.35	1.00	5.9	62	500	1.00
2200	**1NC1 566-4AA10-4CG0**	1793	225	96.9	97.0	96.7	95.9	0.86	0.88	0.86	0.80	11717	2.45	0.70	6.3	83	1000	1.00
6-pole: n_{sync} = 1200 rpm at 60 Hz																		
270	**1NC1 352-6AA10-4AA0**	1191	31	95.1	95.6	96.0	95.7	0.80	0.80	0.72	0.68	2165	2.50	1.20	5.4	10	300	1.00
300	**1NC1 354-6AA10-4AA0**	1190	34	95.3	95.9	96.4	96.3	0.79	0.79	0.72	0.69	2407	2.40	1.10	5.1	10	350	1.00
350	**1NC1 356-6AA10-4AA0**	1190	40	95.5	96.1	96.6	96.5	0.80	0.80	0.73	0.70	2809	2.45	1.10	5.2	12	400	1.00
420	**1NC1 358-6AA10-4AA0**	1191	47	95.7	96.3	96.7	96.6	0.81	0.81	0.73	0.69	3368	2.50	1.15	5.4	14	500	1.00
500	**1NC1 404-6AA10-4AG0**	1192	56	95.7	96.1	96.3	95.8	0.82	0.82	0.80	0.73	4006	2.45	1.15	5.4	21	900	1.00
500	**1NC1 404-6AA10-4CG0**	1193	55	95.8	96.1	96.2	95.6	0.83	0.83	0.80	0.72	4002	2.50	0.80	5.3	26	750	1.00
560	**1NC1 406-6AA10-4AG0**	1193	62	95.8	96.2	96.3	95.7	0.82	0.82	0.80	0.72	4482	2.60	1.25	5.7	24	1000	1.00
560	**1NC1 406-6AA10-4CG0**	1194	61	95.9	96.2	96.2	95.6	0.84	0.83	0.80	0.71	4479	2.70	0.90	5.6	30	800	1.00
630	**1NC1 452-6AA10-4AG0**	1193	72	95.9	96.2	96.2	95.6	0.79	0.80	0.78	0.71	5043	2.20	1.00	5.6	26	1950	1.00
630	**1NC1 452-6AA10-4CG0**	1193	69	96.0	96.3	96.3	95.8	0.83	0.83	0.80	0.73	5043	2.45	0.70	5.4	34	1400	1.00
710	**1NC1 454-6AA10-4AG0**	1193	80	96.0	96.3	96.3	95.8	0.80	0.81	0.79	0.73	5683	2.20	1.00	5.5	30	2200	1.00
710	**1NC1 454-6AA10-4CG0**	1193	77	96.2	96.5	96.4	96.0	0.84	0.84	0.81	0.74	5683	2.40	0.70	5.3	39	1550	1.00
800	**1NC1 456-6AA10-4AG0**	1194	89	96.2	96.4	96.4	95.8	0.82	0.82	0.79	0.72	6398	2.40	1.15	5.9	35	2400	1.00
800	**1NC1 456-6AA10-4CG0**	1194	86	96.3	96.5	96.5	95.9	0.85	0.84	0.81	0.73	6398	2.65	0.80	5.7	46	1800	1.00
900	**1NC1 500-6AA10-4CG0**	1194	95	96.1	96.4	96.5	96.0	0.86	0.86	0.84	0.79	7198	2.35	0.60	5.7	57	1150	0.95
900	**1NC1 500-6AA10-4AG0**	1192	100	95.8	96.3	96.5	96.2	0.79	0.81	0.81	0.77	7210	1.90	1.10	5.2	44	1000	0.85
1000	**1NC1 502-6AA10-4CG0**	1195	106	96.3	96.6	96.6	96.2	0.86	0.86	0.84	0.79	7991	2.40	0.60	5.9	65	1450	0.95
1000	**1NC1 502-6AA10-4AG0**	1193	112	96.0	96.4	96.7	96.4	0.80	0.81	0.81	0.77	8004	1.95	1.10	5.3	51	1100	0.85
1120	**1NC1 504-6AA10-4CG0**	1195	116	96.4	96.7	96.8	96.4	0.87	0.87	0.85	0.80	8950	2.45	0.65	6.0	74	1400	1.00
1120	**1NC1 504-6AA10-4AG0**	1193	122	96.2	96.6	96.8	96.5	0.82	0.83	0.82	0.78	8965	2.00	1.20	5.4	58	1050	0.90
1250	**1NC1 506-6AA10-4AG0**	1194	136	96.5	96.8	96.9	96.6	0.82	0.83	0.81	0.75	9997	2.25	1.30	6.1	65	1100	1.00
1250	**1NC1 506-6AA10-4CG0**	1196	132	96.7	96.9	96.9	96.4	0.87	0.86	0.84	0.77	9980	2.75	0.70	6.8	83	2150	1.00
1400	**1NC1 562-6AA10-4CG0**	1195	146	96.8	96.9	96.8	96.2	0.87	0.86	0.84	0.78	11187	3.00	0.60	6.1	116	2150	1.00
1600	**1NC1 564-6AA10-4CG0**	1195	166	96.9	97.1	97.0	96.5	0.87	0.87	0.85	0.80	12786	2.90	0.60	5.9	132	2250	1.00
1800	**1NC1 566-6AA10-4CG0**	1196	186	97.1	97.2	97.1	96.5	0.87	0.87	0.85	0.79	14372	3.05	0.60	6.3	147	2750	1.00
8-pole: n_{sync} = 900 rpm at 60 Hz																		
180	**1NC1 354-8AA10-4AA0**	889	21	93.9	94.8	95.4	95.6	0.80	0.79	0.70	0.66	1933	2.45	0.85	4.7	10	350	1.00
220	**1NC1 356-8AA10-4AA0**	890	26	94.2	95.0	95.5	95.6	0.80	0.80	0.71	0.66	2361	2.65	0.90	5.1	12	450	1.00

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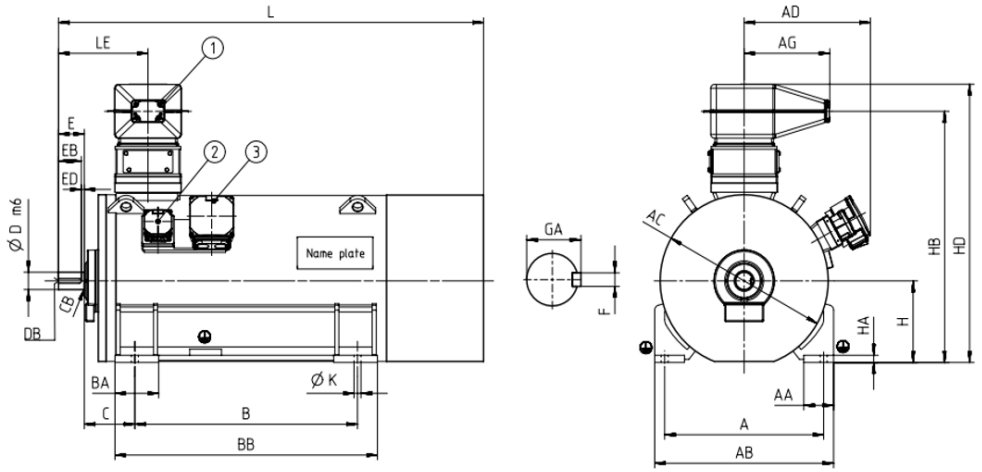
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz B3 (IM 1001)

Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
280	**1NC1 358-8AA10-4AA0**	891	32	94.7	95.3	95.8	95.7	0.80	0.79	0.69	0.64	3001	2.85	1.00	5.3	14	700	1.00
375	**1NC1 404-8AA10-4AG0**	892	43	95.5	95.9	95.9	95.3	0.81	0.80	0.76	0.66	4015	2.60	1.00	5.4	20	1450	1.00
375	**1NC1 404-8AA10-4CG0**	894	43	95.6	95.9	95.7	95.0	0.81	0.80	0.75	0.64	4006	2.40	0.80	4.7	26	1200	1.00
420	**1NC1 406-8AA10-4AG0**	893	48	95.6	95.9	95.9	95.2	0.82	0.80	0.75	0.65	4491	2.75	1.10	5.6	24	1500	1.00
420	**1NC1 406-8AA10-4CG0**	894	48	95.7	95.9	95.7	94.9	0.81	0.79	0.74	0.63	4486	2.55	0.90	4.9	30	1250	1.00
560	**1NC1 452-8AA10-4AG0**	893	66	95.4	95.9	95.9	95.3	0.77	0.77	0.74	0.66	5988	2.25	1.00	4.9	26	2500	1.00
560	**1NC1 452-8AA10-4CG0**	894	65	95.6	95.9	95.9	95.2	0.81	0.79	0.75	0.67	5982	2.35	0.75	4.4	35	1850	1.00
630	**1NC1 454-8AA10-4AG0**	893	74	95.6	96.0	96.1	95.5	0.79	0.78	0.75	0.67	6737	2.25	1.00	4.9	30	2700	1.00
630	**1NC1 454-8AA10-4CG0**	894	72	95.7	96.1	96.0	95.3	0.81	0.80	0.76	0.68	6729	2.35	0.75	4.5	39	1900	1.00
710	**1NC1 456-8AA10-4AG0**	894	82	95.7	96.1	96.2	95.6	0.79	0.79	0.76	0.68	7584	2.30	1.00	5.0	35	2600	1.00
710	**1NC1 456-8AA10-4CG0**	894	81	95.8	96.2	96.1	95.5	0.82	0.80	0.77	0.69	7584	2.35	0.75	4.6	46	1850	1.00
710	**1NC1 502-8AA10-4CG0**	895	77	95.5	95.8	95.5	94.8	0.85	0.84	0.81	0.73	7575	2.55	0.70	5.6	65	2150	1.00
710	**1NC1 502-8AA10-4AG0**	894	81	95.5	95.9	95.9	95.4	0.80	0.80	0.78	0.71	7584	2.15	0.70	5.3	50	2300	0.95
800	**1NC1 504-8AA10-4AG0**	894	90	95.6	96.0	95.9	95.5	0.81	0.81	0.78	0.71	8545	2.20	0.70	5.4	56	2200	1.00
800	**1NC1 504-8AA10-4CG0**	895	87	95.6	95.8	95.6	94.9	0.86	0.84	0.81	0.72	8536	2.60	0.70	5.7	73	2150	1.00
900	**1NC1 506-8AA10-4CG0**	895	98	95.7	96.0	95.7	95.1	0.86	0.84	0.81	0.73	9603	2.65	0.80	5.8	83	2200	1.00
900	**1NC1 506-8AA10-4AG0**	894	102	95.7	96.1	96.0	95.6	0.82	0.81	0.79	0.71	9613	2.25	0.75	5.5	64	2250	1.00
1000	**1NC1 562-8AA10-4CG0**	896	110	96.4	96.5	96.4	95.7	0.85	0.83	0.80	0.72	10658	2.75	0.65	5.4	115	3700	1.00
1120	**1NC1 564-8AA10-4CG0**	896	120	96.5	96.7	96.6	95.9	0.85	0.84	0.81	0.73	11937	2.75	0.60	5.5	132	5050	1.00
1250	**1NC1 566-8AA10-4CG0**	896	136	96.6	96.7	96.6	95.9	0.85	0.83	0.80	0.71	13322	3.00	0.65	5.9	147	5250	1.00



Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 350-2AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 352-2AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-2AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-2AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-2AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 402-2AA10-4AG0	3405	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 402-2AA10-4CG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 404-2AA10-4AG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 404-2AA10-4CG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 406-2AA10-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 406-2AA10-4CG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	o.r.	1232	o.r.	1365	2138	o.r.
1NC1 452-2AA10-4CG0	o.r.	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	o.r.	1322	o.r.	1455	2274	o.r.
1NC1 454-2AA10-4CG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	o.r.	1322	o.r.	1455	2274	o.r.
1NC1 456-2AA10-4CG0	5025	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	o.r.	1322	o.r.	1455	2274	o.r.
4-pole																			
1NC1 350-4AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 352-4AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-4AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-4AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-4AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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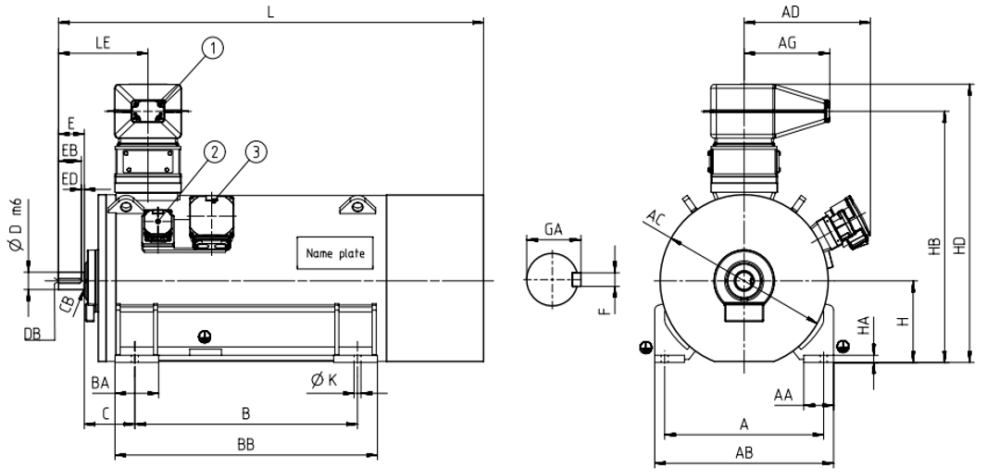

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 404-4AA10-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 404-4AA10-4CG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-4AA10-4AG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-4AA10-4CG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 452-4AA10-4AG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 452-4AA10-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-4AA10-4AG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-4AA10-4CG0	5025	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-4AA10-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-4AA10-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 502-4AA10-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 502-4AA10-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-4AA10-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-4AA10-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-4AA10-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-4AA10-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 560-4AA10-4CG0	7695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 560-4AA10-4AG0	7395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 562-4AA10-4CG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 562-4AA10-4AG0	7895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 564-4AA10-4CG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.

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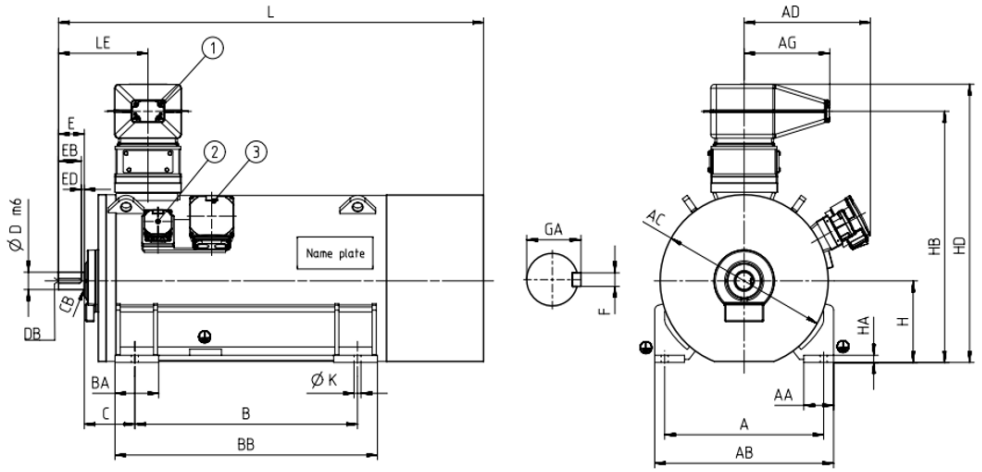

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 564-4AA10-4AG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 566-4AA10-4AG0	8695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 566-4AA10-4CG0	9095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
6-pole																			
1NC1 352-6AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-6AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-6AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-6AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-6AA10-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 404-6AA10-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-6AA10-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-6AA10-4CG0	4205	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 452-6AA10-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 452-6AA10-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-6AA10-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-6AA10-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-6AA10-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-6AA10-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 500-6AA10-4CG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 500-6AA10-4AG0	5475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 502-6AA10-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.

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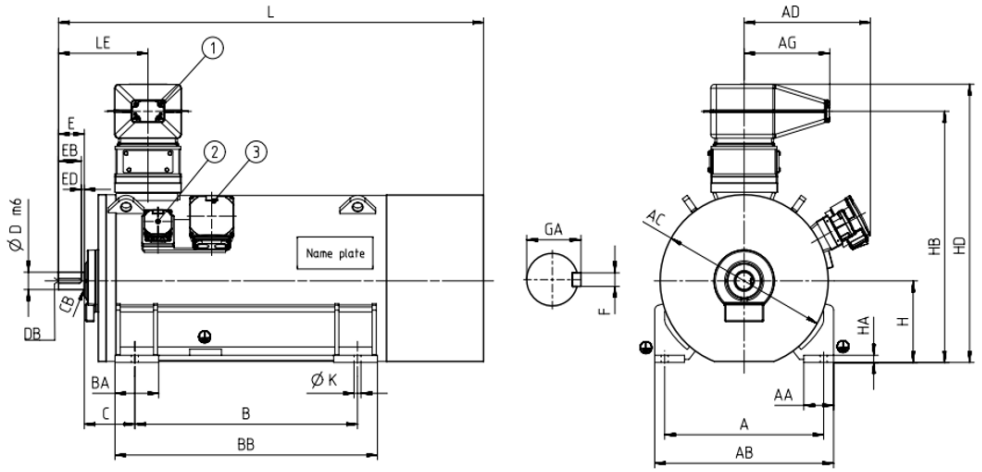

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 502-6AA10-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-6AA10-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-6AA10-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-6AA10-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-6AA10-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 562-6AA10-4CG0	8395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 564-6AA10-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 566-6AA10-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
8-pole																			
1NC1 354-8AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-8AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-8AA10-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-8AA10-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 404-8AA10-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-8AA10-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 406-8AA10-4CG0	4205	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	o.r.	1232	o.r.	1365	2239	o.r.
1NC1 452-8AA10-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 452-8AA10-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-8AA10-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 454-8AA10-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 456-8AA10-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.

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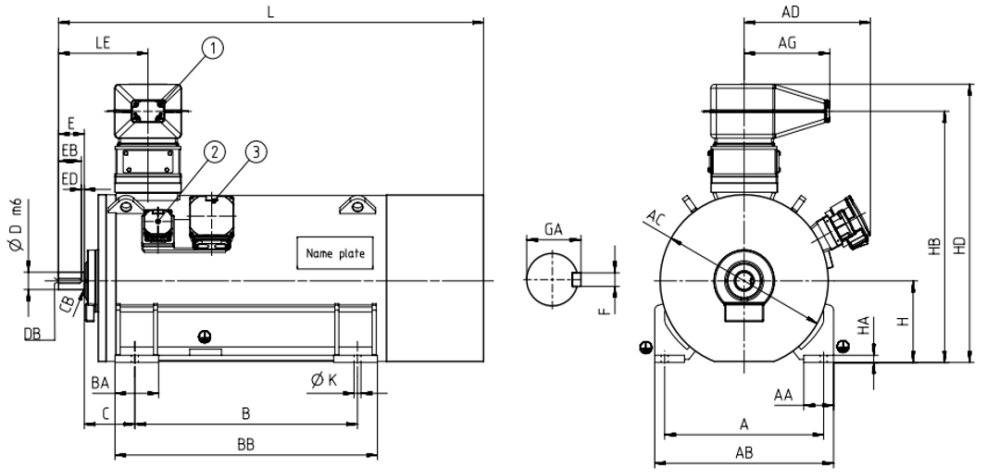

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 456-8AA10-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	o.r.	1322	o.r.	1455	2419	o.r.
1NC1 502-8AA10-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 502-8AA10-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-8AA10-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 504-8AA10-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-8AA10-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 506-8AA10-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	o.r.	1437	o.r.	1570	2599	o.r.
1NC1 562-8AA10-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 564-8AA10-4CG0	8895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.
1NC1 566-8AA10-4CG0	9395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	o.r.	1557	o.r.	1690	2753	o.r.

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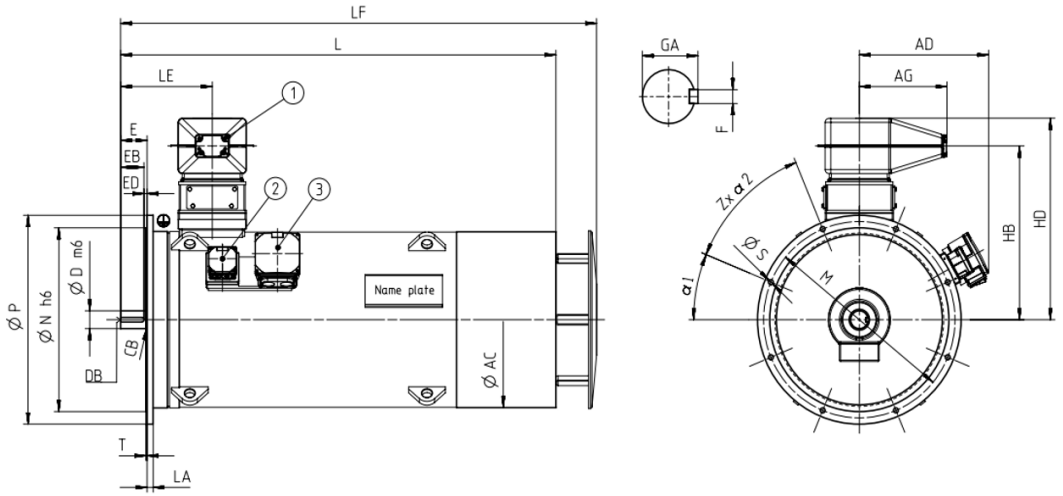

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings														
2-pole														
1NC1 350-2AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 352-2AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-2AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-2AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-2AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
4-pole														
1NC1 350-4AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 352-4AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-4AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-4AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-4AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-4AA14-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-4AA14-4CG0	4400	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AA14-4AG0	4400	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AA14-4CG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-4AA14-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AA14-4CG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AA14-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AA14-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AA14-4AG0	5800	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8

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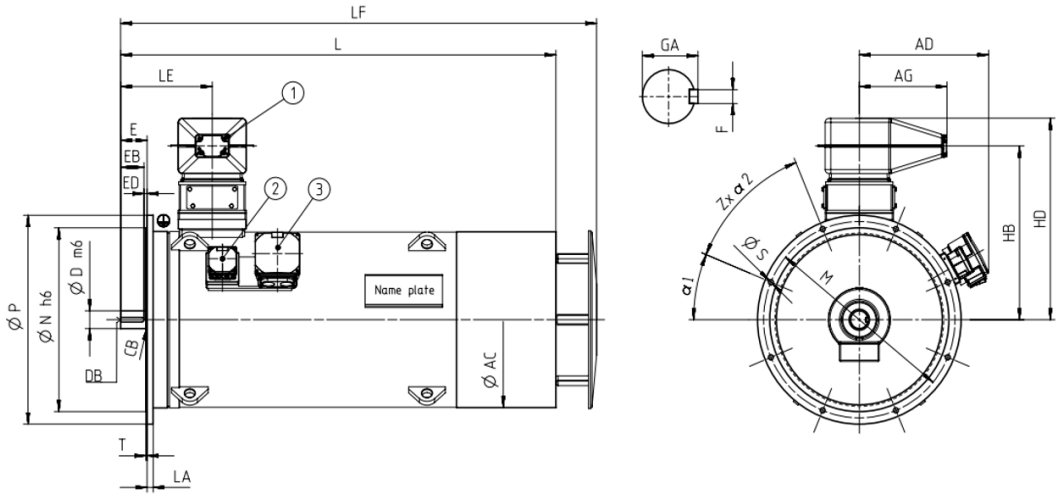

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings														
1NC1 456-4AA14-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AA14-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AA14-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AA14-4CG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AA14-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AA14-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AA14-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 560-4AA14-4CG0	9000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 560-4AA14-4AG0	8700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AA14-4CG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AA14-4AG0	9100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AA14-4CG0	9900	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AA14-4AG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AA14-4AG0	10000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AA14-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
6-pole														
1NC1 352-6AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 354-6AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-6AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-6AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-6AA14-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8

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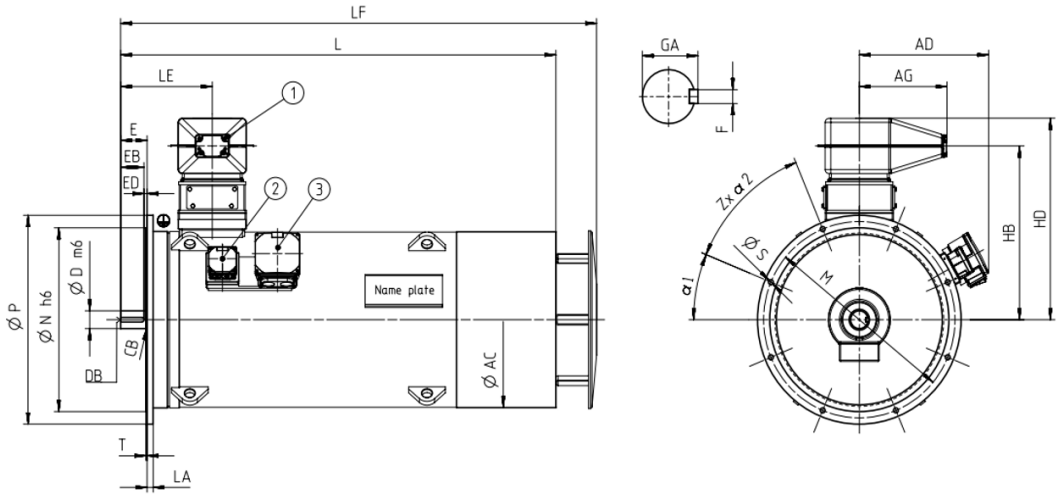

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings														
1NC1 404-6AA14-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AA14-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AA14-4CG0	4700	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-6AA14-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AA14-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AA14-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AA14-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AA14-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AA14-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AA14-4CG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 500-6AA14-4AG0	6500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AA14-4CG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AA14-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AA14-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AA14-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AA14-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AA14-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-6AA14-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AA14-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AA14-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole													

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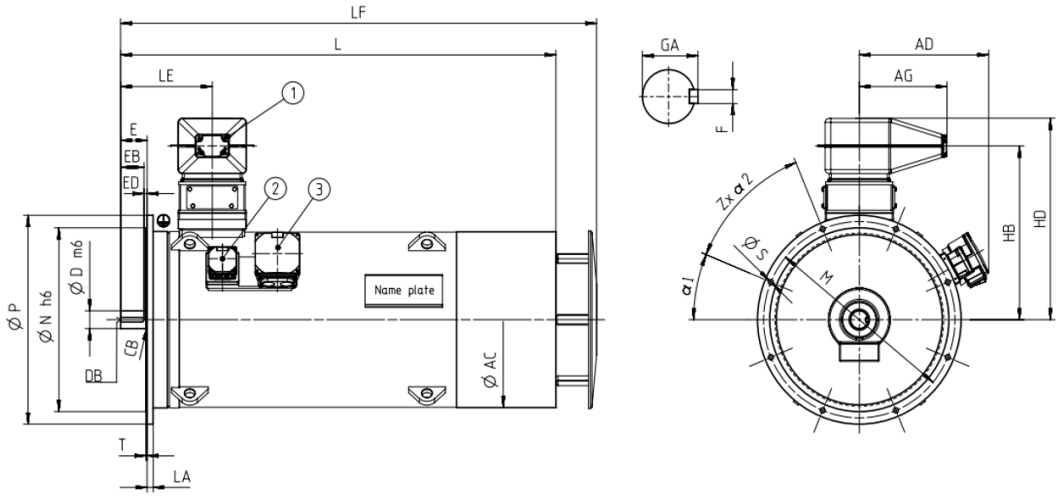

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings														
1NC1 354-8AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-8AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-8AA14-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-8AA14-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-8AA14-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AA14-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AA14-4CG0	4700	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-8AA14-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AA14-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AA14-4AG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AA14-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AA14-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AA14-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-8AA14-4CG0	7000	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AA14-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AA14-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AA14-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AA14-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AA14-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AA14-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-8AA14-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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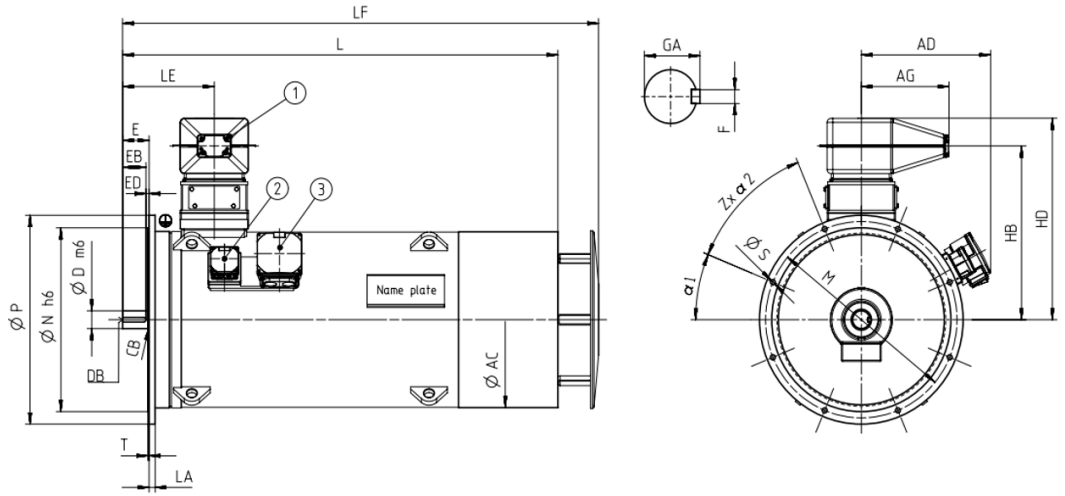

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 6600 V / 60 Hz V1 (IM 3011) - Dimension drawings														
1NC1 566-8AA14-4CG0	10700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque		Locked rotor current		Inertia		
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R		I_{LR}/I_R		motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]		[-]		kgm^2	kgm^2	[-]
2-pole: n_{sync} = 3000 rpm at 50 Hz																		
260	**1NC1 354-2AA80-4AA0**	2978	18	94.4	95.3	95.7	95.3	0.84	0.86	0.86	0.82	834	2.25	1.05		4.9		4	o.r.	o.r.
330	**1NC1 356-2AA80-4AA0**	2980	23	94.9	95.7	96.1	95.7	0.85	0.87	0.87	0.82	1057	2.40	1.20		5.2		5	o.r.	o.r.
380	**1NC1 358-2AA80-4AA0**	2980	26	95.1	95.9	96.4	96.0	0.86	0.87	0.88	0.83	1218	2.45	1.25		5.3		5	o.r.	o.r.
400	**1NC1 402-2AA80-4AG0**	2978	28	95.0	95.5	95.7	95.2	0.86	0.86	0.86	0.83	1283	2.25	0.90		4.8		8	35	0.95
400	**1NC1 402-2AA80-4CG0**	2979	27	95.2	95.6	95.7	95.1	0.89	0.89	0.88	0.83	1282	2.75	0.95		6.0		10	50	1.00
450	**1NC1 404-2AA80-4AG0**	2976	31	95.1	95.6	95.9	95.6	0.85	0.87	0.87	0.84	1444	2.10	0.85		4.5		9	35	0.90
450	**1NC1 404-2AA80-4CG0**	2977	30	95.3	95.7	95.9	95.5	0.90	0.90	0.89	0.85	1443	2.55	0.90		5.6		11	50	1.00
500	**1NC1 406-2AA80-4AG0**	2978	34	95.4	95.9	96.1	95.8	0.87	0.88	0.88	0.85	1603	2.25	0.95		4.8		10	35	1.00
500	**1NC1 406-2AA80-4CG0**	2979	34	95.6	96.0	96.1	95.8	0.90	0.90	0.89	0.85	1603	2.75	0.95		6.0		12	55	1.00
630	**1NC1 452-2AA80-4AG0**	2984	43	96.2	96.5	96.5	96.1	0.88	0.88	0.87	0.82	2016	2.55	1.20		6.0		11	120	1.00
630	**1NC1 452-2AA80-4CG0**	2983	42	96.1	96.4	96.4	95.9	0.90	0.89	0.88	0.83	2017	2.75	0.95		6.4		15	150	1.00
710	**1NC1 454-2AA80-4AG0**	2983	48	96.3	96.6	96.7	96.4	0.88	0.89	0.88	0.84	2273	2.45	1.20		5.7		13	125	1.00
710	**1NC1 454-2AA80-4CG0**	2982	47	96.2	96.5	96.6	96.2	0.90	0.90	0.89	0.85	2274	2.65	0.90		6.1		17	150	1.00
800	**1NC1 456-2AA80-4AG0**	2986	53	96.6	96.9	96.9	96.4	0.90	0.90	0.88	0.83	2558	2.85	1.50		6.7		15	120	1.00
800	**1NC1 456-2AA80-4CG0**	2985	52	96.5	96.8	96.8	96.3	0.91	0.91	0.89	0.84	2559	3.05	1.05		7.1		19	200	1.00
900	**1NC1 502-2AA80-4CG0**	2986	60	96.3	96.4	96.3	95.7	0.89	0.90	0.89	0.84	2878	2.90	0.75		6.0		24	200	1.00
900	**1NC1 502-2AA80-4AG0**	2985	61	96.3	96.5	96.5	96.0	0.87	0.88	0.87	0.84	2879	2.55	0.75		5.5		19	95	0.85
1000	**1NC1 504-2AA80-4CG0**	2988	66	96.5	96.6	96.5	95.8	0.90	0.90	0.89	0.83	3196	3.20	0.80		6.8		27	250	1.00
1000	**1NC1 504-2AA80-4AG0**	2987	68	96.6	96.7	96.7	96.1	0.88	0.88	0.88	0.83	3197	2.90	0.85		6.2		21	105	1.00
1120	**1NC1 506-2AA80-4AG0**	2988	75	96.8	96.9	96.8	96.3	0.90	0.89	0.88	0.83	3579	3.20	1.00		6.9		24	140	1.00
1120	**1NC1 506-2AA80-4CG0**	2989	73	96.7	96.8	96.7	96.0	0.91	0.91	0.89	0.84	3578	3.50	0.85		7.5		31	250	1.00
1250	**1NC1 564-2AA80-4CG0**	2988	82	96.6	96.8	96.7	96.0	0.90	0.91	0.91	0.88	3995	2.55	0.60		5.6		46	350	0.80
1400	**1NC1 566-2AA80-4CG0**	2989	91	96.9	97.0	96.9	96.3	0.91	0.92	0.91	0.88	4473	2.75	0.65		6.1		51	400	0.85
4-pole: n_{sync} = 1500 rpm at 50 Hz																		
320	**1NC1 356-4AA80-4AA0**	1485	23	94.5	95.1	95.5	95.3	0.85	0.85	0.80	0.79	2058	2.45	1.25		5.3		6	o.r.	o.r.
400	**1NC1 358-4AA80-4AA0**	1485	28	94.8	95.4	95.8	95.6	0.86	0.86	0.82	0.80	2572	2.55	1.35		5.5		8	o.r.	o.r.
450	**1NC1 404-4AA80-4AG0**	1487	32	95.2	95.7	96.0	95.7	0.84	0.85	0.84	0.79	2890	2.30	1.05		4.8		11	550	1.00
450	**1NC1 404-4AA80-4CG0**	1488	32	95.3	95.8	96.0	95.7	0.86	0.85	0.84	0.79	2888	2.60	0.80		5.3		14	400	1.00
500	**1NC1 406-4AA80-4AG0**	1488	36	95.4	95.9	96.2	95.9	0.85	0.85	0.85	0.80	3209	2.30	1.05		4.8		12	600	1.00
500	**1NC1 406-4AA80-4CG0**	1488	35	95.5	95.9	96.2	95.9	0.86	0.86	0.85	0.79	3209	2.60	0.80		5.3		16	450	1.00
560	**1NC1 450-4AA80-4AG0**	1491	41	95.8	96.1	96.2	95.6	0.83	0.82	0.79	0.72	3587	2.55	1.20		5.8		16	600	1.00
560	**1NC1 450-4AA80-4CG0**	1492	40	95.8	96.1	96.1	95.4	0.84	0.83	0.80	0.72	3584	2.75	0.80		6.3		21	450	1.00
630	**1NC1 452-4AA80-4AG0**	1491	46	95.8	96.2	96.3	95.8	0.83	0.83	0.80	0.72	4035	2.55	1.20		5.8		18	550	1.00
630	**1NC1 452-4AA80-4CG0**	1492	45	95.9	96.2	96.2	95.7	0.85	0.84	0.81	0.73	4032	2.80	0.80		6.3		23	450	1.00
710	**1NC1 454-4AA80-4AG0**	1491	51	96.0	96.4	96.5	96.1	0.84	0.83	0.81	0.74	4547	2.50	1.20		5.6		20	700	1.00
710	**1NC1 454-4AA80-4CG0**	1492	50	96.1	96.4	96.5	95.9	0.85	0.85	0.82	0.74	4544	2.70	0.80		6.2		26	550	1.00

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SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz B3 (IM 1001)																		
Rated	**High Voltage motor HV C**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current		Inertia	
Power **IEC**	**Article No.**		I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
800	**1NC1 456-4AA80-4AG0**	1492	57	96.2	96.6	96.6	96.2	0.84	0.84	0.81	0.73	5120	2.65	1.25	6.0	24	850	1.00
800	**1NC1 456-4AA80-4CG0**	1492	56	96.3	96.6	96.6	96.1	0.86	0.85	0.82	0.74	5120	2.90	0.85	6.6	30	650	1.00
900	**1NC1 502-4AA80-4CG0**	1492	64	95.9	96.2	96.2	95.6	0.84	0.85	0.84	0.78	5760	2.35	0.65	5.7	35	700	1.00
900	**1NC1 502-4AA80-4AG0**	1490	64	95.8	96.1	96.1	95.5	0.83	0.84	0.83	0.77	5768	2.20	0.85	5.1	26	1000	0.90
1000	**1NC1 504-4AA80-4CG0**	1492	70	96.1	96.3	96.3	95.8	0.86	0.86	0.85	0.79	6400	2.45	0.75	5.9	40	700	1.00
1000	**1NC1 504-4AA80-4AG0**	1492	71	96.1	96.3	96.2	95.5	0.84	0.84	0.82	0.74	6400	2.65	1.05	6.1	31	1000	1.00
1120	**1NC1 506-4AA80-4AG0**	1493	79	96.3	96.5	96.4	95.7	0.85	0.85	0.82	0.73	7164	2.90	1.20	6.5	35	1050	1.00
1120	**1NC1 506-4AA80-4CG0**	1493	77	96.3	96.5	96.5	95.9	0.86	0.87	0.85	0.78	7164	2.75	0.80	6.6	45	800	1.00
1250	**1NC1 560-4AA80-4CG0**	1493	87	96.2	96.4	96.3	95.5	0.85	0.86	0.84	0.78	7995	2.40	0.75	6.0	60	1150	1.00
1250	**1NC1 560-4AA80-4AG0**	1493	88	96.2	96.3	96.2	95.4	0.83	0.85	0.83	0.76	7995	2.30	0.95	5.7	44	1150	1.00
1400	**1NC1 562-4AA80-4CG0**	1492	97	96.4	96.6	96.6	95.9	0.84	0.86	0.85	0.80	8960	2.20	0.60	5.5	68	1150	1.00
1400	**1NC1 562-4AA80-4AG0**	1492	99	96.3	96.5	96.5	95.8	0.83	0.85	0.84	0.79	8960	2.10	0.85	5.2	50	1300	0.90
1600	**1NC1 564-4AA80-4CG0**	1493	110	96.7	96.9	96.8	96.2	0.85	0.87	0.85	0.79	10234	2.40	0.70	6.1	75	1400	1.00
1600	**1NC1 564-4AA80-4AG0**	1493	112	96.6	96.8	96.7	96.0	0.84	0.85	0.84	0.78	10234	2.30	0.95	5.7	56	1100	1.00
1800	**1NC1 566-4AA80-4CG0**	1494	122	96.9	97.0	97.0	96.4	0.87	0.88	0.86	0.79	11505	2.60	0.80	6.6	83	1450	1.00
1800	**1NC1 566-4AA80-4AG0**	1494	124	96.8	96.9	96.9	96.2	0.86	0.87	0.84	0.78	11505	2.50	1.10	6.1	62	1100	1.00
6-pole: n_{sync} = 1000 rpm at 50 Hz																		
560	**1NC1 454-6AA80-4AG0**	994	42	95.5	96.0	96.1	95.7	0.80	0.81	0.78	0.71	5380	2.40	1.10	5.8	30	1350	1.00
560	**1NC1 454-6AA80-4CG0**	994	40	95.7	96.1	96.2	95.8	0.84	0.83	0.80	0.72	5380	2.65	0.80	5.7	39	1150	1.00
630	**1NC1 456-6AA80-4AG0**	994	46	95.8	96.2	96.2	95.7	0.82	0.81	0.77	0.69	6052	2.70	1.30	6.5	35	1750	1.00
630	**1NC1 456-6AA80-4CG0**	994	46	96.0	96.2	96.2	95.7	0.85	0.83	0.79	0.69	6052	2.95	0.95	6.3	46	1400	1.00
710	**1NC1 500-6AA80-4CG0**	994	50	95.6	96.1	96.3	96.1	0.86	0.86	0.85	0.79	6821	2.35	0.65	5.6	57	750	1.00
710	**1NC1 500-6AA80-4AG0**	994	53	95.6	96.0	96.3	96.0	0.81	0.81	0.79	0.72	6821	2.25	1.30	6.0	44	1500	1.00
800	**1NC1 502-6AA80-4CG0**	995	56	95.9	96.3	96.5	96.2	0.86	0.86	0.84	0.78	7678	2.40	0.65	5.9	65	950	1.00
800	**1NC1 502-6AA80-4AG0**	994	59	95.8	96.2	96.4	96.1	0.83	0.82	0.80	0.73	7686	2.35	1.35	6.1	51	1600	1.00
900	**1NC1 504-6AA80-4CG0**	995	62	96.0	96.4	96.6	96.4	0.87	0.87	0.85	0.79	8638	2.50	0.70	6.1	74	1000	1.00
900	**1NC1 504-6AA80-4AG0**	994	66	96.0	96.4	96.6	96.3	0.82	0.82	0.80	0.73	8646	2.40	1.35	6.3	58	2250	1.00
1000	**1NC1 506-6AA80-4CG0**	996	69	96.2	96.5	96.7	96.4	0.88	0.87	0.84	0.77	9588	2.70	0.80	6.6	83	1050	1.00
1000	**1NC1 506-6AA80-4AG0**	995	72	96.2	96.5	96.7	96.4	0.84	0.83	0.80	0.72	9597	2.65	1.55	6.9	65	2200	1.00
1120	**1NC1 562-6AA80-4CG0**	995	77	96.6	96.9	96.9	96.5	0.87	0.87	0.85	0.78	10749	2.95	0.65	6.0	116	2000	1.00
1250	**1NC1 564-6AA80-4CG0**	995	86	96.6	96.9	97.0	96.6	0.88	0.87	0.85	0.79	11997	2.95	0.65	6.0	132	1750	1.00
1400	**1NC1 566-6AA80-4CG0**	996	96	96.8	97.0	97.1	96.7	0.88	0.87	0.85	0.78	13423	3.15	0.70	6.4	147	2200	1.00
8-pole: n_{sync} = 750 rpm at 50 Hz																		
375	**1NC1 452-8AA80-4AG0**	744	30	94.4	95.0	95.1	94.6	0.79	0.77	0.73	0.64	4813	2.45	1.15	5.2	26	1000	1.00
375	**1NC1 452-8AA80-4CG0**	745	29	94.6	95.0	95.1	94.4	0.81	0.79	0.74	0.65	4807	2.50	0.90	4.8	35	850	1.00
420	**1NC1 454-8AA80-4AG0**	744	33	94.7	95.2	95.3	94.7	0.79	0.77	0.73	0.64	5391	2.55	1.15	5.5	30	1350	1.00
420	**1NC1 454-8AA80-4CG0**	745	32	94.9	95.3	95.3	94.6	0.81	0.79	0.74	0.64	5383	2.65	0.90	5.0	39	1150	1.00

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SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz B3 (IM 1001)

Rated Power **IEC**	**High Voltage motor HV C Article No.**	Speed	Rated current	Efficiency				Power factor				Torque	Breakdown torque	Locked rotor torque	Locked rotor current	Inertia		
			I_R	5/4 load	4/4 load	3/4 load	2/4 load	5/4 load	4/4 load	3/4 load	2/4 load	T_R	T_B/T_R	T_{LR}/T_R	I_{LR}/I_R	motor	external	Startup max T/TR
kW		rpm	A	%	%	%	%	cos φ	cos φ	cos φ	cos φ	Nm	[-]	[-]	[-]	kgm^2	kgm^2	[-]
470	**1NC1 456-8AA80-4AG0**	745	36	95.2	95.6	95.6	95.0	0.80	0.78	0.74	0.64	6024	2.70	1.25	5.7	35	2000	1.00
470	**1NC1 456-8AA80-4CG0**	745	36	95.3	95.6	95.5	94.8	0.81	0.79	0.74	0.64	6024	2.75	0.95	5.2	46	1650	1.00
560	**1NC1 502-8AA80-4CG0**	745	40	94.9	95.4	95.4	94.9	0.86	0.84	0.81	0.73	7178	2.45	0.70	5.3	65	1200	1.00
560	**1NC1 502-8AA80-4AG0**	745	42	95.0	95.5	95.5	95.1	0.81	0.80	0.76	0.67	7178	2.40	0.80	5.8	50	1450	1.00
630	**1NC1 504-8AA80-4CG0**	745	46	95.2	95.6	95.5	95.0	0.86	0.84	0.81	0.72	8075	2.55	0.75	5.7	73	1550	1.00
630	**1NC1 504-8AA80-4AG0**	745	48	95.1	95.6	95.6	95.2	0.82	0.80	0.77	0.68	8075	2.45	0.85	5.9	56	1450	1.00
710	**1NC1 506-8AA80-4CG0**	746	51	95.4	95.7	95.5	94.9	0.86	0.84	0.79	0.70	9088	2.85	0.85	6.3	83	1850	1.00
710	**1NC1 506-8AA80-4AG0**	746	53	95.4	95.8	95.7	95.1	0.82	0.80	0.75	0.65	9088	2.75	1.00	6.5	64	1800	1.00
800	**1NC1 562-8AA80-4CG0**	746	58	96.1	96.4	96.5	96.0	0.85	0.83	0.80	0.72	10241	2.75	0.70	5.4	115	2800	1.00
900	**1NC1 564-8AA80-4CG0**	746	65	96.3	96.6	96.6	96.2	0.85	0.83	0.80	0.72	11521	2.80	0.70	5.6	132	4400	1.00
1000	**1NC1 566-8AA80-4CG0**	746	71	96.4	96.7	96.7	96.3	0.85	0.84	0.80	0.72	12801	2.85	0.70	5.6	147	5100	1.00

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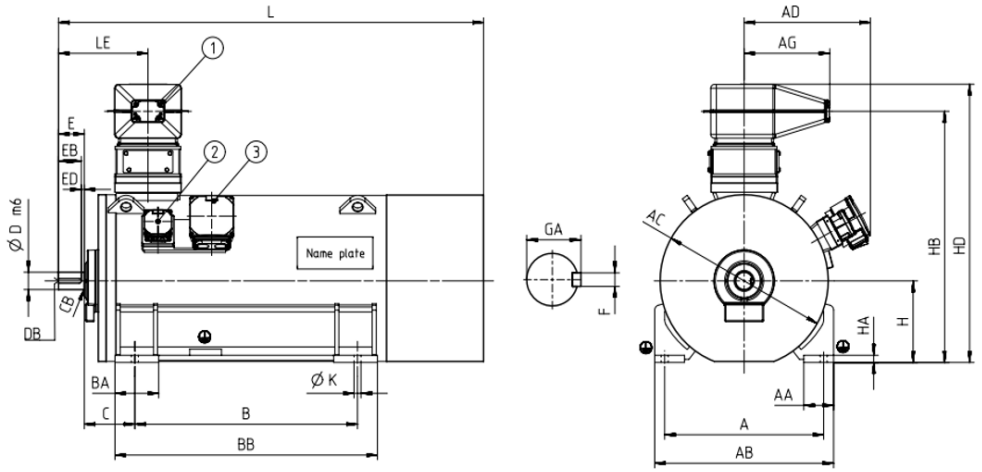

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 354-2AA80-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-2AA80-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-2AA80-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 402-2AA80-4AG0	3405	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	85	130	400	o.r.	1274	o.r.	1472	2138	o.r.
1NC1 402-2AA80-4CG0	3405	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	85	130	400	o.r.	1274	o.r.	1472	2138	o.r.
1NC1 404-2AA80-4AG0	3505	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	85	130	400	o.r.	1274	o.r.	1472	2138	o.r.
1NC1 404-2AA80-4CG0	3605	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	85	130	400	o.r.	1274	o.r.	1472	2138	o.r.
1NC1 406-2AA80-4AG0	3705	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	85	130	400	o.r.	1274	o.r.	1472	2138	o.r.
1NC1 406-2AA80-4CG0	3805	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	85	130	400	o.r.	1274	o.r.	1472	2138	o.r.
1NC1 452-2AA80-4AG0	4525	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	95	130	450	o.r.	1364	o.r.	1562	2274	o.r.
1NC1 452-2AA80-4CG0	4625	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	95	130	450	o.r.	1364	o.r.	1562	2274	o.r.
1NC1 454-2AA80-4AG0	4725	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	95	130	450	o.r.	1364	o.r.	1562	2274	o.r.
1NC1 454-2AA80-4CG0	4825	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	95	130	450	o.r.	1364	o.r.	1562	2274	o.r.
1NC1 456-2AA80-4AG0	4925	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	95	130	450	o.r.	1364	o.r.	1562	2274	o.r.
1NC1 456-2AA80-4CG0	5025	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	95	130	450	o.r.	1364	o.r.	1562	2274	o.r.
1NC1 502-2AA80-4CG0	5775	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	110	165	500	o.r.	1481	o.r.	1679	2432	o.r.
1NC1 502-2AA80-4AG0	5675	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	110	165	500	o.r.	1481	o.r.	1679	2432	o.r.
1NC1 504-2AA80-4CG0	6175	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	110	165	500	o.r.	1481	o.r.	1679	2432	o.r.
1NC1 504-2AA80-4AG0	5975	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	110	165	500	o.r.	1481	o.r.	1679	2432	o.r.
1NC1 506-2AA80-4AG0	6375	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	110	165	500	o.r.	1481	o.r.	1679	2432	o.r.

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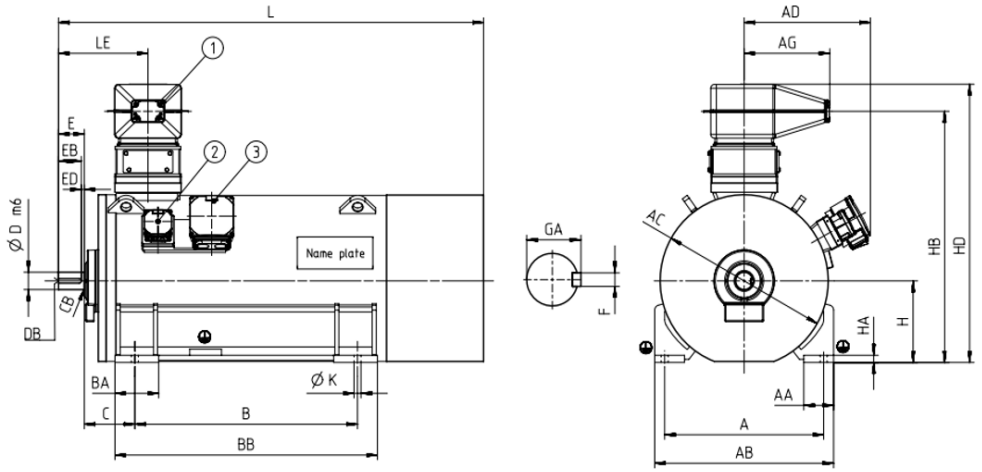

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 506-2AA80-4CG0	6575	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	110	165	500	o.r.	1481	o.r.	1679	2432	o.r.
1NC1 564-2AA80-4CG0	7895	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	120	165	560	o.r.	1601	o.r.	1799	2598	o.r.
1NC1 566-2AA80-4CG0	8395	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	120	165	560	o.r.	1601	o.r.	1799	2598	o.r.
4-pole																			
1NC1 356-4AA80-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-4AA80-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-4AA80-4AG0	3605	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	120	165	400	o.r.	1274	o.r.	1472	2239	o.r.
1NC1 404-4AA80-4CG0	3705	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	120	165	400	o.r.	1274	o.r.	1472	2239	o.r.
1NC1 406-4AA80-4AG0	3805	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	120	165	400	o.r.	1274	o.r.	1472	2239	o.r.
1NC1 406-4AA80-4CG0	3905	800	635	o.r.	o.r.	o.r.	643	o.r.	1120	254	120	165	400	o.r.	1274	o.r.	1472	2239	o.r.
1NC1 450-4AA80-4AG0	4325	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 450-4AA80-4CG0	4525	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 452-4AA80-4AG0	4625	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 452-4AA80-4CG0	4725	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 454-4AA80-4AG0	4825	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 454-4AA80-4CG0	4925	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 456-4AA80-4AG0	5125	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 456-4AA80-4CG0	5325	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 502-4AA80-4CG0	5875	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 502-4AA80-4AG0	5675	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 504-4AA80-4CG0	6375	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.

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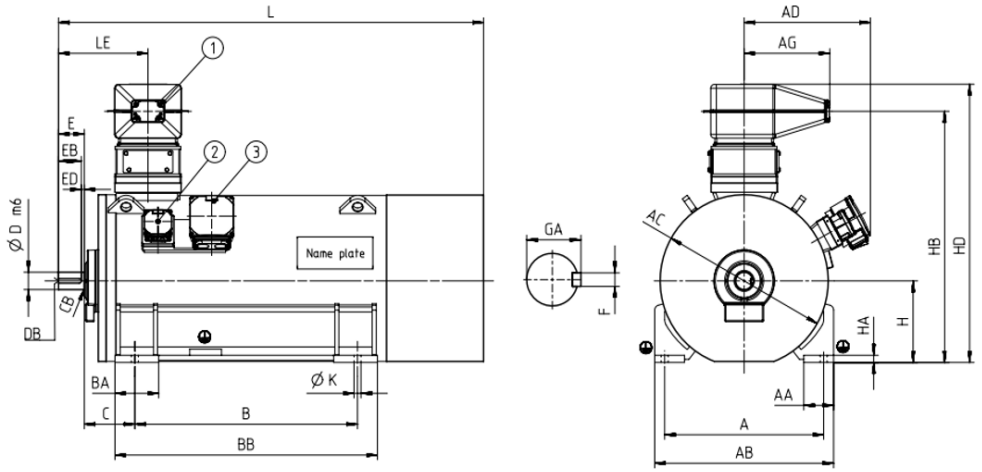

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 504-4AA80-4AG0	6175	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 506-4AA80-4AG0	6475	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 506-4AA80-4CG0	6775	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 560-4AA80-4CG0	7595	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 560-4AA80-4AG0	7295	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 562-4AA80-4CG0	8095	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 562-4AA80-4AG0	7795	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 564-4AA80-4CG0	8595	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 564-4AA80-4AG0	8195	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 566-4AA80-4CG0	8995	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 566-4AA80-4AG0	8695	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
6-pole																			
1NC1 454-6AA80-4AG0	4725	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 454-6AA80-4CG0	4925	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 456-6AA80-4AG0	5025	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 456-6AA80-4CG0	5325	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 500-6AA80-4CG0	5675	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 500-6AA80-4AG0	5475	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 502-6AA80-4CG0	6075	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 502-6AA80-4AG0	5775	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 504-6AA80-4CG0	6375	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.

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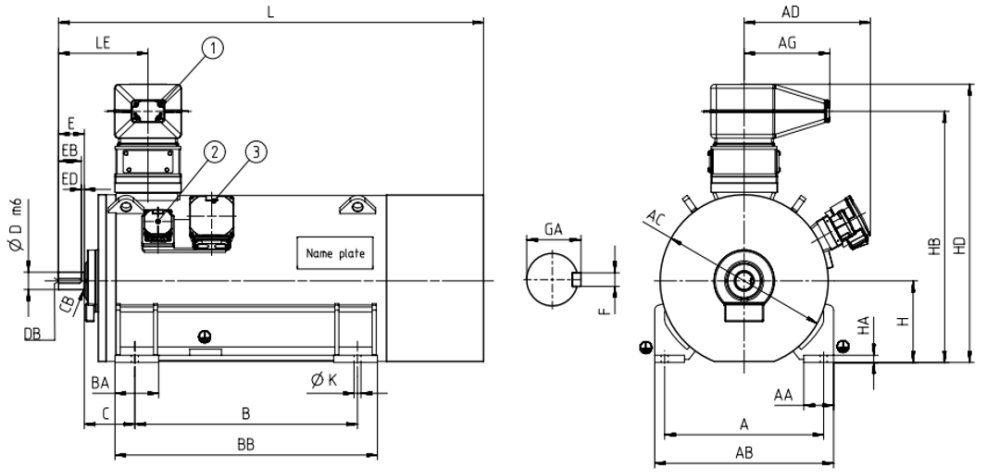

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 504-6AA80-4AG0	6175	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 506-6AA80-4CG0	6875	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 506-6AA80-4AG0	6575	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 562-6AA80-4CG0	8295	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 564-6AA80-4CG0	8895	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 566-6AA80-4CG0	9495	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
8-pole																			
1NC1 452-8AA80-4AG0	4425	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 452-8AA80-4CG0	4625	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 454-8AA80-4AG0	4725	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 454-8AA80-4CG0	4825	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 456-8AA80-4AG0	5025	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 456-8AA80-4CG0	5225	900	688	o.r.	o.r.	o.r.	643	o.r.	1250	280	120	165	450	o.r.	1364	o.r.	1562	2419	o.r.
1NC1 502-8AA80-4CG0	5975	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 502-8AA80-4AG0	5775	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 504-8AA80-4CG0	6375	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 504-8AA80-4AG0	6175	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 506-8AA80-4CG0	6775	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 506-8AA80-4AG0	6575	1000	693	o.r.	o.r.	o.r.	643	o.r.	1320	315	140	200	500	o.r.	1481	o.r.	1679	2599	o.r.
1NC1 562-8AA80-4CG0	8295	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.
1NC1 564-8AA80-4CG0	8795	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.

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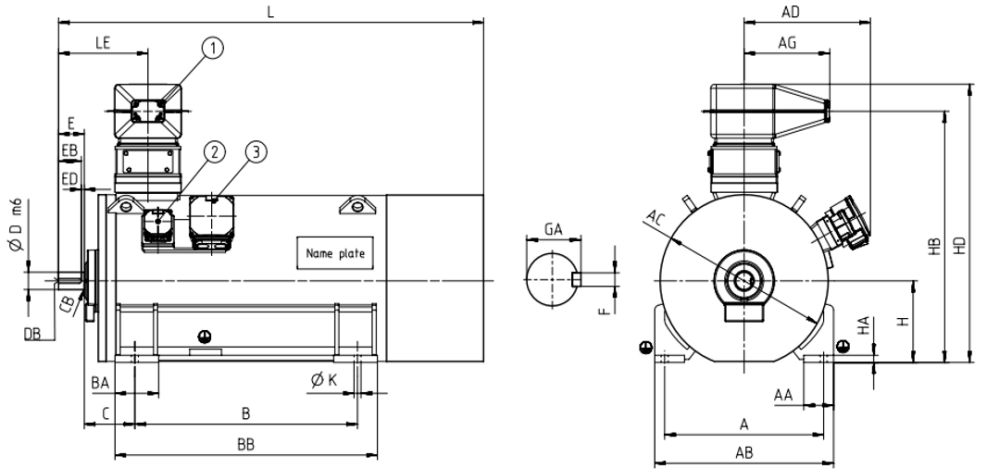
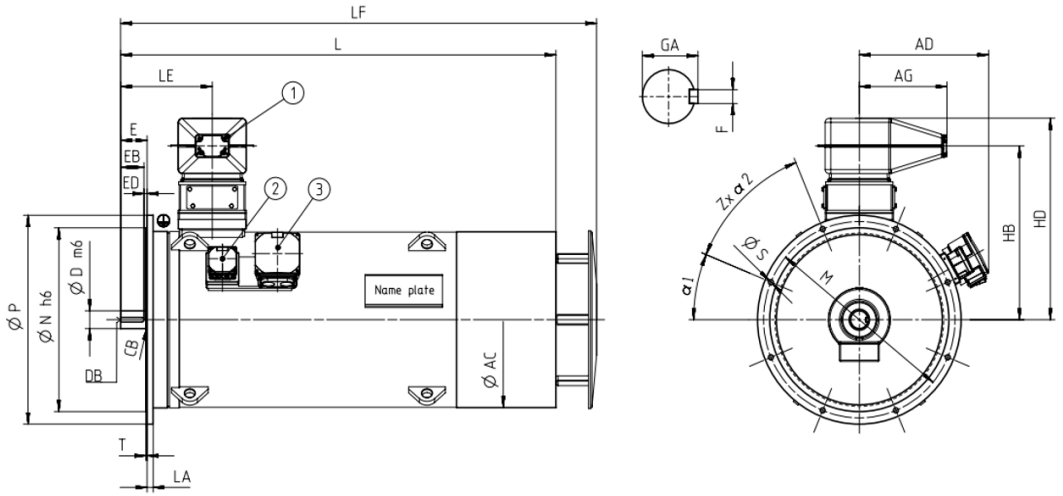


Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 566-8AA80-4CG0	9395	1120	715	o.r.	o.r.	o.r.	643	o.r.	1400	335	160	240	560	o.r.	1601	o.r.	1799	2753	o.r.



Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
2-pole														
1NC1 354-2AA84-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 356-2AA84-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-2AA84-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 402-2AA84-4AG0	3900	o.r.	643	85	874	1072	2138	o.r.	940	880	1000	o.r.	8
1NC1 402-2AA84-4CG0	4000	o.r.	643	85	874	1072	2138	o.r.	940	880	1000	o.r.	8
1NC1 404-2AA84-4AG0	4100	o.r.	643	85	874	1072	2138	o.r.	940	880	1000	o.r.	8
1NC1 404-2AA84-4CG0	4100	o.r.	643	85	874	1072	2138	o.r.	940	880	1000	o.r.	8
1NC1 406-2AA84-4AG0	4200	o.r.	643	85	874	1072	2138	o.r.	940	880	1000	o.r.	8
1NC1 406-2AA84-4CG0	4300	o.r.	643	85	874	1072	2138	o.r.	940	880	1000	o.r.	8
4-pole														
1NC1 356-4AA84-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 358-4AA84-4AA0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-4AA84-4AG0	4200	o.r.	643	120	874	1072	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-4AA84-4CG0	4300	o.r.	643	120	874	1072	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AA84-4AG0	4400	o.r.	643	120	874	1072	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AA84-4CG0	4500	o.r.	643	120	874	1072	2239	o.r.	940	880	1000	o.r.	8
1NC1 450-4AA84-4AG0	5000	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 450-4AA84-4CG0	5100	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AA84-4AG0	5200	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AA84-4CG0	5300	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8

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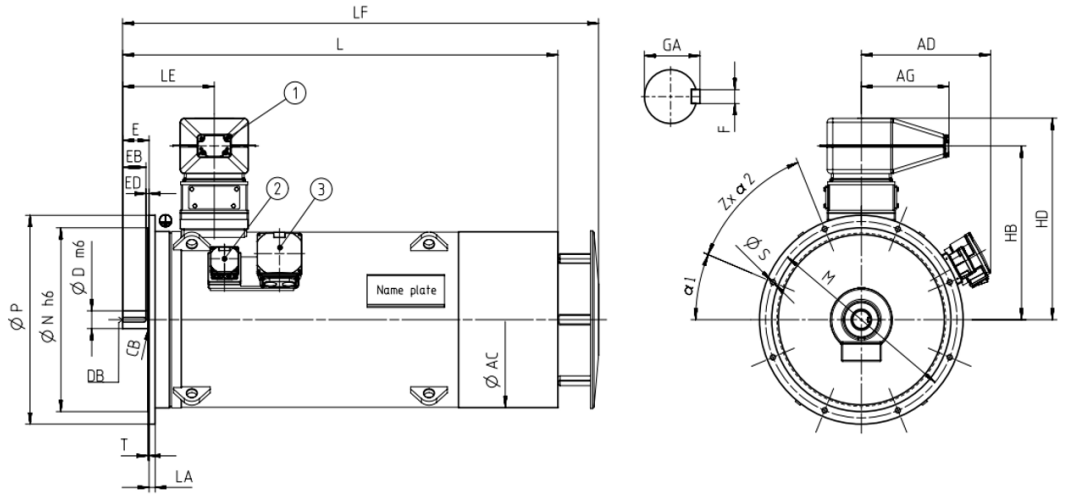

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 454-4AA84-4AG0	5400	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AA84-4CG0	5500	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AA84-4AG0	5700	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AA84-4CG0	5900	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AA84-4CG0	6900	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AA84-4AG0	6700	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AA84-4CG0	7400	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AA84-4AG0	7100	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AA84-4AG0	7500	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AA84-4CG0	7800	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 560-4AA84-4CG0	8900	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 560-4AA84-4AG0	8600	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AA84-4CG0	9400	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AA84-4AG0	9100	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AA84-4CG0	9800	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AA84-4AG0	9500	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AA84-4CG0	10300	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AA84-4AG0	9900	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
6-pole													
1NC1 454-6AA84-4AG0	5300	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AA84-4CG0	5500	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8

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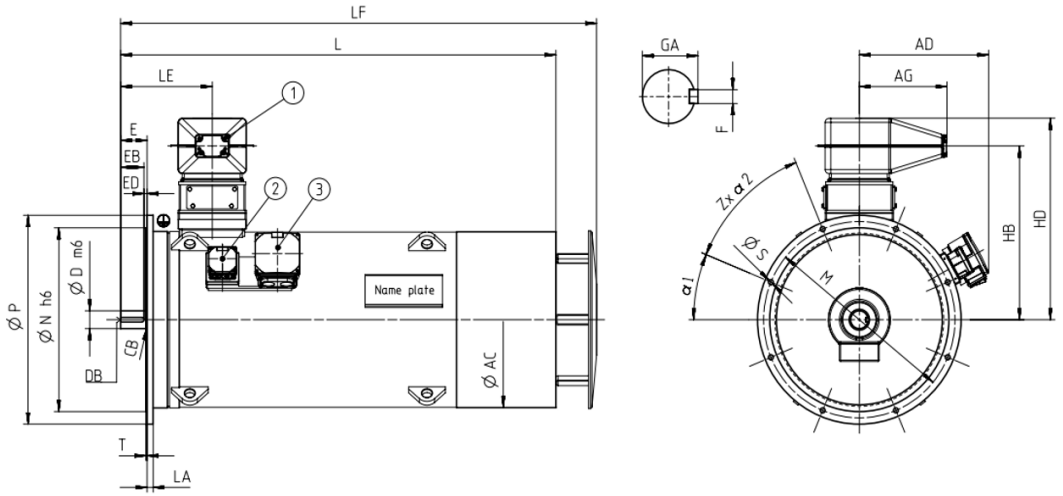

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 456-6AA84-4AG0	5700	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AA84-4CG0	5900	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AA84-4CG0	6700	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 500-6AA84-4AG0	6500	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AA84-4CG0	7000	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AA84-4AG0	6800	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AA84-4CG0	7400	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AA84-4AG0	7200	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AA84-4CG0	7800	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AA84-4AG0	7600	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-6AA84-4CG0	9600	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AA84-4CG0	10200	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AA84-4CG0	10700	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
8-pole													
1NC1 452-8AA84-4AG0	5000	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AA84-4CG0	5200	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AA84-4AG0	5300	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AA84-4CG0	5500	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AA84-4AG0	5700	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AA84-4CG0	5800	o.r.	643	120	914	1112	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-8AA84-4CG0	7000	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16

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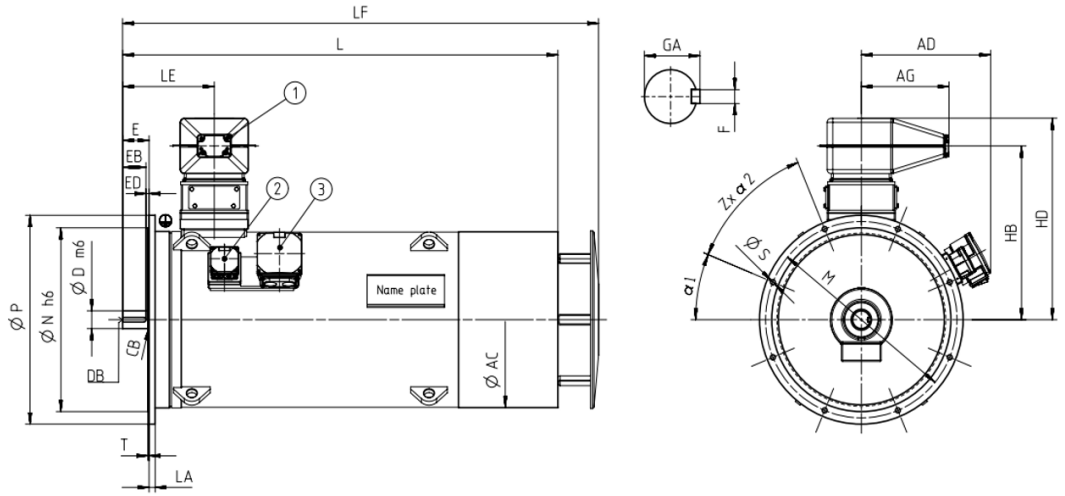

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 10000 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NC1 502-8AA84-4AG0	6800	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AA84-4CG0	7400	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AA84-4AG0	7100	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AA84-4CG0	7800	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AA84-4AG0	7600	o.r.	643	140	981	1179	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AA84-4CG0	9600	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-8AA84-4CG0	10100	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AA84-4CG0	10700	o.r.	643	160	1041	1239	2753	o.r.	1320	1250	1400	o.r.	16

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SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - Square-law torque drive																						
780	690	**1NA1 402-2AC00-0A.0**	2979	96.5	0.93	730	2500	3.30	10.0	3600	580	2684	96.6	0.92	395	2388	96.6	0.88	195	1852	96.2	0.82
770	680	**1NA1 402-2AC00-0C.0**	2980	96.4	0.93	720	2467	3.30	12.3	3600	575	2684	96.4	0.91	390	2388	96.4	0.88	190	1852	95.8	0.81
800	710	**1NA1 404-2AC00-0A.0**	2979	96.5	0.94	740	2564	3.60	11.0	3600	595	2684	96.6	0.93	405	2388	96.6	0.90	195	1852	96.2	0.84
800	710	**1NA1 404-2AC00-0C.0**	2980	96.4	0.94	740	2564	3.50	13.5	3600	595	2684	96.4	0.93	405	2388	96.4	0.89	195	1852	95.8	0.84
920	810	**1NA1 406-2AC00-0A.0**	2980	96.7	0.94	850	2948	3.60	12.2	3600	685	2684	96.8	0.93	465	2388	96.8	0.89	225	1853	96.4	0.84
910	800	**1NA1 406-2AC00-0C.0**	2981	96.7	0.94	840	2915	3.60	14.9	3600	675	2685	96.7	0.92	460	2389	96.6	0.89	225	1853	96.1	0.83
950	840	**1NA1 408-2AC00-0A.0**	2982	96.8	0.95	860	3042	4.40	13.0	3600	705	2686	96.7	0.93	480	2389	96.7	0.89	235	1853	96.1	0.83
950	840	**1NA1 408-2AC00-0C.0**	2983	96.7	0.95	870	3041	4.30	15.9	3600	705	2687	96.6	0.93	480	2390	96.5	0.89	235	1854	95.8	0.82
1050	930	**1NA1 454-2AC00-0A.0**	2982	96.9	0.94	960	3362	2.70	14.1	3600	780	2686	97.0	0.93	530	2390	97.1	0.91	260	1854	97.0	0.88
1050	930	**1NA1 454-2AC00-0C.0**	2983	96.8	0.94	970	3361	2.60	19.1	3600	780	2687	96.9	0.93	530	2390	97.0	0.91	260	1854	96.8	0.88
1200	1060	**1NA1 456-2AC00-0A.0**	2985	97.2	0.94	1100	3839	3.20	15.6	3600	895	2688	97.2	0.93	605	2391	97.3	0.91	295	1854	97.0	0.87
1200	1060	**1NA1 456-2AC00-0C.0**	2985	97.1	0.94	1100	3839	3.00	21.0	3600	895	2688	97.1	0.93	605	2391	97.2	0.91	295	1855	96.8	0.87
1220	1080	**1NA1 458-2AC00-0A.0**	2985	97.2	0.95	1100	3903	3.20	16.8	3600	910	2689	97.2	0.93	615	2391	97.3	0.91	300	1855	97.0	0.87
1220	1080	**1NA1 458-2AC00-0C.0**	2986	97.1	0.95	1100	3902	3.10	22.7	3600	905	2689	97.1	0.94	615	2392	97.2	0.91	300	1855	96.8	0.87
1500	1320	**1NA1 504-2AC00-0AC0**	2986	97.0	0.90	1440	4797	3.30	22.6	3600	1115	2689	97.0	0.90	755	2392	96.9	0.87	370	1855	96.2	0.82
1510	1330	**1NA1 504-2AC00-0C.0**	2987	96.9	0.91	1440	4827	3.20	28.0	3000	1125	2690	96.8	0.90	760	2392	96.7	0.88	370	1855	95.8	0.82
1820	1600	**1NA1 506-2AC00-0AC0**	2984	97.2	0.91	1720	5824	3.00	25.7	3600	1355	2688	97.2	0.91	920	2391	97.2	0.89	450	1854	96.7	0.86
1570	1380	**1NA1 506-2AC00-0C.0**	2987	96.9	0.92	1480	5019	3.30	31.0	3000	1170	2690	96.8	0.91	790	2393	96.7	0.89	385	1855	95.8	0.83
1810	1590	**1NA1 508-2AC00-0AC0**	2989	97.3	0.91	1720	5783	4.10	28.1	3600	1345	2691	97.1	0.90	915	2393	96.9	0.87	445	1856	96.0	0.80
1820	1600	**1NA1 508-2AC00-0C.0**	2989	97.2	0.91	1720	5815	3.80	34.0	3000	1355	2692	96.9	0.90	920	2394	96.7	0.87	450	1856	95.6	0.80
1960	1730	**1NA1 566-2AC00-0C.0**	2990	97.1	0.92	1840	6260	3.00	55.4	3000	1460	2692	97.0	0.91	990	2394	96.8	0.90	485	1856	96.0	0.84
2150	1890	**1NA1 568-2AC00-0C.0**	2992	97.2	0.92	2000	6862	3.80	60.1	3000	1600	2694	97.0	0.90	1085	2395	96.8	0.87	530	1857	95.8	0.80
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - Square-law torque drive																						
850	750	**1NA1 404-4AC00-0A.0**	1491	96.4	0.89	830	5444	3.20	15.6	2600	630	1343	96.0	0.87	430	1195	95.9	0.83	210	927	94.6	0.73
850	750	**1NA1 404-4AC00-0C.0**	1489	96.4	0.89	830	5451	2.80	19.8	2600	635	1342	96.2	0.87	430	1194	96.2	0.84	210	926	95.3	0.75
910	800	**1NA1 406-4AC00-0A.0**	1491	96.5	0.90	880	5828	3.50	17.4	2600	675	1343	96.1	0.87	460	1195	95.8	0.83	225	927	94.4	0.72
910	800	**1NA1 406-4AC00-0C.0**	1490	96.5	0.89	890	5832	3.10	22.0	2600	675	1342	96.3	0.87	460	1194	96.2	0.84	225	926	95.2	0.74
1000	880	**1NA1 408-4AC00-0A.0**	1492	96.6	0.90	960	6400	3.80	19.7	2600	745	1344	96.1	0.87	505	1195	95.8	0.82	245	927	94.3	0.71
1000	880	**1NA1 408-4AC00-0C.0**	1491	96.7	0.89	970	6405	3.30	24.9	2600	745	1343	96.4	0.87	505	1195	96.2	0.83	245	927	95.1	0.73
1150	1010	**1NA1 454-4AC00-0A.0**	1491	96.8	0.90	1100	7365	2.90	26.4	2400	855	1343	96.6	0.88	580	1195	96.5	0.85	285	927	95.8	0.77
1150	1010	**1NA1 454-4AC00-0C.0**	1491	96.7	0.89	1120	7365	2.60	33.9	2400	855	1343	96.6	0.88	580	1195	96.6	0.84	285	927	95.9	0.77
1250	1100	**1NA1 456-4AC00-0C.0**	1491	96.9	0.90	1200	8006	2.80	39.0	2400	930	1343	96.7	0.88	630	1195	96.6	0.84	310	927	95.9	0.77
1260	1110	**1NA1 456-4AC00-0A.0**	1491	96.9	0.91	1200	8070	3.10	30.5	2400	935	1343	96.7	0.89	635	1195	96.6	0.85	310	927	95.8	0.77
1410	1240	**1NA1 458-4AC00-0A.0**	1491	97.1	0.90	1360	9031	3.20	33.6	2400	1050	1343	96.8	0.88	710	1195	96.7	0.85	350	927	95.9	0.76

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SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																						
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1400	1230	**1NA1 458-4AC00-0C.0**	1492	97.0	0.89	1360	8960	2.80	42.8	2400	1040	1344	96.9	0.88	705	1195	96.7	0.84	345	927	96.0	0.76
1470	1300	**1NA1 504-4AC00-0A.0**	1491	96.5	0.88	1440	9415	2.80	32.6	2200	1095	1343	96.4	0.87	745	1195	96.3	0.83	365	927	95.3	0.75
1470	1300	**1NA1 504-4AC00-0C.0**	1491	96.5	0.86	1480	9415	2.20	42.5	2200	1095	1343	96.5	0.86	745	1195	96.4	0.83	365	927	95.7	0.76
1560	1380	**1NA1 506-4AC00-0A.0**	1491	96.5	0.89	1520	9991	3.00	37.1	2200	1160	1343	96.4	0.88	790	1195	96.2	0.85	385	927	95.2	0.77
1550	1370	**1NA1 506-4AC00-0C.0**	1492	96.6	0.88	1520	9921	2.30	48.0	2200	1155	1344	96.5	0.88	785	1195	96.4	0.85	385	927	95.5	0.78
1760	1550	**1NA1 508-4AC00-0A.0**	1492	96.8	0.89	1700	11265	3.50	42.5	2200	1310	1344	96.5	0.87	890	1196	96.2	0.82	435	927	94.9	0.72
1770	1560	**1NA1 508-4AC00-0C.0**	1493	96.9	0.88	1740	11321	2.70	54.7	2200	1315	1345	96.7	0.86	895	1196	96.5	0.83	435	927	95.4	0.74
2020	1780	**1NA1 564-4AC00-0A.0**	1492	96.8	0.89	1960	12929	2.60	60.0	2000	1505	1344	96.7	0.88	1020	1196	96.5	0.85	500	927	95.8	0.79
2010	1770	**1NA1 564-4AC00-0C.0**	1492	96.9	0.88	1980	12865	2.20	79.4	2000	1495	1344	96.8	0.87	1015	1195	96.6	0.85	495	927	96.0	0.79
2075	1830	**1NA1 566-4AC00-0A.0**	1492	96.8	0.90	2000	13281	2.60	66.7	2000	1540	1344	96.7	0.89	1045	1196	96.6	0.86	510	927	95.9	0.81
2070	1820	**1NA1 566-4AC00-0C.0**	1492	96.9	0.89	2000	13249	2.30	88.1	2000	1540	1344	96.8	0.89	1045	1195	96.6	0.86	510	927	95.9	0.81
2220	1960	**1NA1 568-4AC00-0A.0**	1493	97.0	0.90	2150	14199	3.10	73.5	2000	1650	1345	96.7	0.89	1120	1196	96.6	0.85	550	928	95.7	0.78
2220	1960	**1NA1 568-4AC00-0C.0**	1493	97.0	0.90	2150	14199	2.60	96.7	2000	1650	1345	96.8	0.88	1120	1196	96.7	0.85	550	928	95.9	0.78
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - Square-law torque drive																						
650	570	**1NA1 404-6AC00-0AA0**	995	96.1	0.87	650	6238	3.30	25.8	2400	485	896	95.6	0.85	330	797	95.1	0.80	160	618	93.2	0.69
660	580	**1NA1 404-6AC00-0CA0**	994	96.2	0.87	660	6341	2.80	33.2	2400	490	895	96.0	0.85	335	796	95.8	0.82	165	618	94.5	0.72
710	630	**1NA1 406-6AC00-0AA0**	995	96.2	0.88	700	6814	3.50	29.6	2400	530	896	95.6	0.85	360	797	95.1	0.80	175	618	93.1	0.69
710	630	**1NA1 406-6AC00-0CA0**	994	96.3	0.88	700	6821	3.00	38.0	2400	530	895	96.1	0.85	360	797	95.8	0.82	175	618	94.5	0.71
730	640	**1NA1 408-6AC00-0AA0**	995	96.2	0.87	730	7006	4.40	33.5	2400	545	896	95.3	0.82	370	797	94.7	0.76	180	618	92.2	0.62
780	690	**1NA1 408-6AC00-0CA0**	995	96.4	0.87	780	7486	3.40	42.0	2400	580	896	96.0	0.84	395	797	95.7	0.78	190	618	94.1	0.66
950	840	**1NA1 454-6AC00-0A.0**	993	96.3	0.86	960	9136	2.80	39.5	2200	705	895	96.0	0.84	480	796	95.9	0.81	235	618	94.7	0.71
950	840	**1NA1 454-6AC00-0C.0**	992	96.4	0.85	970	9145	2.40	49.1	2200	705	894	96.2	0.84	480	796	96.2	0.82	235	617	95.3	0.73
980	860	**1NA1 456-6AC00-0A.0**	995	96.5	0.85	1000	9405	3.60	45.9	2200	730	896	95.8	0.81	495	797	95.5	0.75	240	618	93.8	0.62
1000	880	**1NA1 456-6AC00-0C.0**	994	96.6	0.85	1020	9607	3.10	56.8	2200	745	896	96.2	0.83	505	797	96.1	0.78	245	618	94.8	0.66
1000	880	**1NA1 458-6AC00-0A.0**	995	96.6	0.85	1020	9597	3.90	54.3	2200	745	896	96.0	0.81	505	797	95.6	0.75	245	618	93.8	0.61
1020	900	**1NA1 458-6AC00-0C.0**	995	96.8	0.86	1020	9789	3.40	67.0	2200	760	896	96.3	0.82	515	797	96.1	0.77	250	618	94.7	0.65
1200	1060	**1NA1 502-6AC00-0A.0**	992	96.3	0.83	1260	11552	2.10	52.8	2100	895	894	96.4	0.83	605	795	96.3	0.82	295	617	95.5	0.75
1260	1110	**1NA1 502-6AC00-0C.0**	993	96.5	0.86	1280	12117	1.90	67.6	2100	940	895	96.6	0.86	635	796	96.6	0.85	310	618	95.9	0.77
1300	1150	**1NA1 504-6AC00-0C.0**	993	96.5	0.87	1300	12502	1.90	76.2	2100	970	895	96.6	0.87	655	796	96.6	0.86	320	618	95.9	0.79
1230	1090	**1NA1 504-6AC00-0A.0**	992	96.3	0.85	1260	11840	2.10	59.7	2100	915	894	96.4	0.85	620	795	96.3	0.84	305	617	95.4	0.77
1460	1290	**1NA1 506-6AC00-0C.0**	994	96.7	0.87	1460	14026	2.00	85.6	2100	1085	896	96.7	0.87	740	797	96.6	0.85	360	618	95.6	0.77
1400	1230	**1NA1 506-6AC00-0A.0**	993	96.5	0.86	1420	13463	2.30	67.4	2100	1040	894	96.4	0.85	710	796	96.3	0.83	345	617	95.1	0.75
1550	1370	**1NA1 508-6AC00-0A.0**	994	96.6	0.86	1560	14891	2.70	76.4	2100	1155	895	96.4	0.84	785	796	96.2	0.81	385	618	94.8	0.71
1650	1450	**1NA1 508-6AC00-0C.0**	995	96.8	0.87	1640	15836	2.30	96.8	2100	1230	896	96.7	0.86	835	797	96.6	0.83	405	618	95.5	0.74
2020	1780	**1NA1 564-6AC00-0C.0**	994	97.1	0.88	1980	19406	2.30	136.8	2000	1505	896	97.0	0.88	1020	797	96.9	0.86	500	618	95.9	0.79

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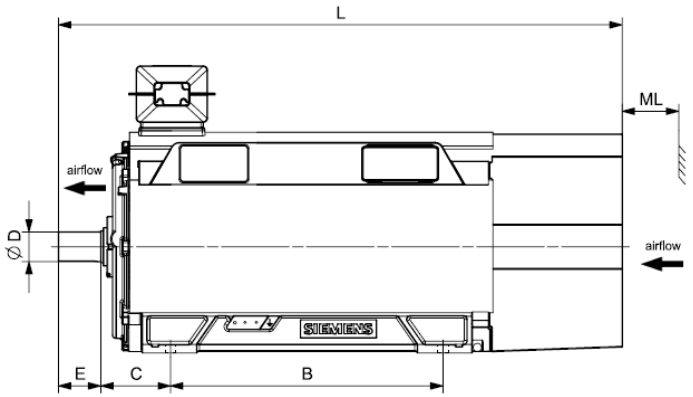
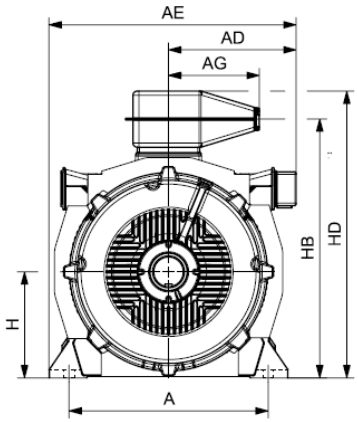
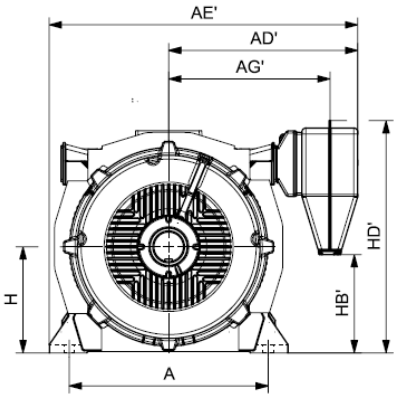
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2200	1940	**1NA1 566-6AC00-0C.0**	995	97.3	0.87	2150	21114	2.80	151.9	2000	1635	896	97.0	0.86	1110	797	96.7	0.83	545	618	95.4	0.72
2260	1990	**1NA1 568-6AC00-0C.0**	995	97.3	0.88	2200	21690	2.70	167.0	2000	1680	896	97.0	0.87	1140	797	96.8	0.85	555	618	95.6	0.76
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - Square-law torque drive																						
500	440	**1NA1 404-8AC00-0AA0**	744	95.7	0.83	530	6418	2.90	26.7	2400	370	670	95.1	0.80	255	596	94.7	0.74	125	463	92.5	0.62
500	440	**1NA1 404-8AC00-0CA0**	742	95.6	0.81	540	6435	2.50	32.8	2400	375	669	95.3	0.79	255	596	95.0	0.75	125	462	93.4	0.64
540	480	**1NA1 406-8AC00-0AA0**	745	95.8	0.80	590	6922	3.80	30.6	2400	400	671	94.7	0.74	275	597	93.9	0.66	135	463	90.9	0.51
540	480	**1NA1 406-8AC00-0CA0**	744	95.9	0.80	590	6931	3.10	37.6	2400	400	671	95.2	0.75	275	597	94.7	0.68	135	463	92.3	0.54
560	490	**1NA1 408-8AC00-0AA0**	745	95.9	0.83	590	7178	3.50	33.8	2400	415	671	95.0	0.78	285	597	94.4	0.71	140	463	91.7	0.57
560	490	**1NA1 408-8AC00-0CA0**	744	95.9	0.82	600	7188	3.00	41.5	2400	415	670	95.3	0.78	285	597	94.8	0.72	140	463	92.7	0.59
750	660	**1NA1 454-8AC00-0A.0**	743	95.6	0.80	820	9639	2.30	40.0	2200	560	670	95.3	0.79	380	596	95.1	0.75	185	463	93.6	0.65
750	660	**1NA1 454-8AC00-0C.0**	741	95.6	0.80	820	9665	2.30	48.8	2200	560	668	95.4	0.79	380	595	95.3	0.76	185	462	94.1	0.67
800	710	**1NA1 456-8AC00-0A.0**	744	95.8	0.81	860	10268	2.60	46.4	2200	595	670	95.3	0.78	405	597	94.9	0.73	200	463	93.1	0.61
800	710	**1NA1 456-8AC00-0C.0**	743	95.8	0.81	860	10282	2.60	56.4	2200	595	669	95.4	0.79	405	596	95.2	0.75	200	462	93.7	0.63
900	790	**1NA1 458-8AC00-0A.0**	745	96.1	0.79	990	11536	3.00	54.9	2200	670	671	95.4	0.75	455	597	94.9	0.69	220	463	92.8	0.55
900	790	**1NA1 458-8AC00-0C.0**	744	96.2	0.79	990	11552	3.10	66.6	2200	670	670	95.6	0.76	455	597	95.3	0.71	220	463	93.6	0.57
1000	880	**1NA1 504-8AC00-0A.0**	743	95.8	0.80	1100	12852	1.70	58.9	2100	745	669	95.8	0.80	505	596	95.9	0.77	245	463	95.0	0.70
1000	880	**1NA1 504-8AC00-0C.0**	744	95.9	0.85	1020	12835	2.00	75.7	2100	745	670	95.7	0.83	505	596	95.7	0.80	245	463	94.5	0.71
1120	990	**1NA1 506-8AC00-0A.0**	743	96.0	0.81	1200	14395	1.90	66.4	2100	835	670	95.9	0.80	565	596	95.9	0.77	275	463	94.7	0.69
1120	990	**1NA1 506-8AC00-0C.0**	744	96.0	0.85	1140	14375	2.10	85.2	2100	835	671	95.8	0.83	565	597	95.6	0.79	275	463	94.2	0.70
1190	1050	**1NA1 508-8AC00-0A.0**	744	96.0	0.82	1260	15274	1.90	75.3	2100	885	670	95.9	0.81	600	596	95.9	0.78	295	463	94.6	0.69
1190	1050	**1NA1 508-8AC00-0C.0**	744	96.0	0.85	1220	15274	2.20	96.4	2100	885	671	95.8	0.83	600	597	95.6	0.79	295	463	94.1	0.70
1500	1320	**1NA1 564-8AC00-0C.0**	744	96.6	0.85	1520	19253	2.00	136.4	2000	1115	671	96.6	0.84	760	597	96.5	0.82	370	463	95.4	0.73
1600	1410	**1NA1 566-8AC00-0C.0**	744	96.7	0.85	1620	20536	1.90	151.8	2000	1190	671	96.7	0.85	810	597	96.5	0.83	395	463	95.5	0.75
1700	1500	**1NA1 568-8AC00-0C.0**	745	96.8	0.85	1720	21790	2.20	167.1	2000	1265	671	96.6	0.84	860	597	96.4	0.82	420	463	95.1	0.72







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2AC00-0A.0	3300	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 402-2AC00-0C.0	3400	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 404-2AC00-0A.0	3500	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 404-2AC00-0C.0	3600	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 406-2AC00-0A.0	3700	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 406-2AC00-0C.0	3800	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 408-2AC00-0A.0	3800	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 408-2AC00-0C.0	3900	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 454-2AC00-0A.0	4500	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 454-2AC00-0C.0	4700	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 456-2AC00-0A.0	4800	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 456-2AC00-0C.0	5000	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 458-2AC00-0A.0	5000	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 458-2AC00-0C.0	5200	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 504-2AC00-0AC0	6000	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 504-2AC00-0C.0	6200	950	610	1029	1175	1594	371	885	1320	280	110	165	500	1343	522	1508	1194	2472	200
1NA1 506-2AC00-0AC0	6400	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 506-2AC00-0C.0	6600	950	610	1029	1175	1594	371	885	1320	280	110	165	500	1343	522	1508	1194	2472	200
1NA1 508-2AC00-0AC0	6700	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 508-2AC00-0C.0	6900	950	610	1029	1175	1594	371	885	1320	280	110	165	500	1343	522	1508	1194	2472	200
1NA1 566-2AC00-0C.0	8800	1060	670	1089	1305	1724	371	945	1400	290	120	165	560	1470	627	1635	1300	2642	225
1NA1 568-2AC00-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	290	120	165	560	1470	627	1635	1300	2642	225

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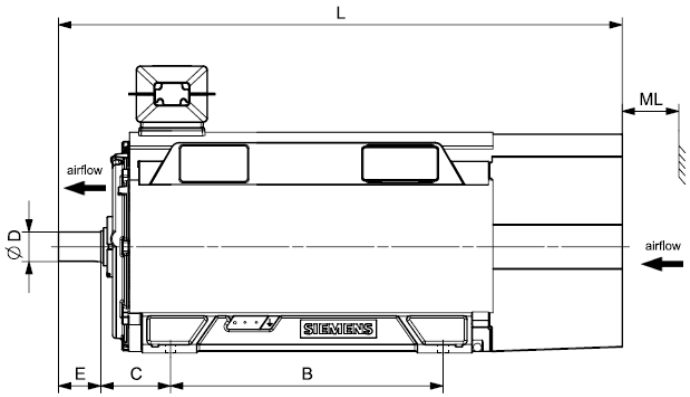

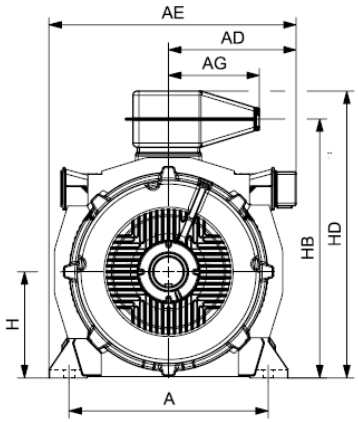

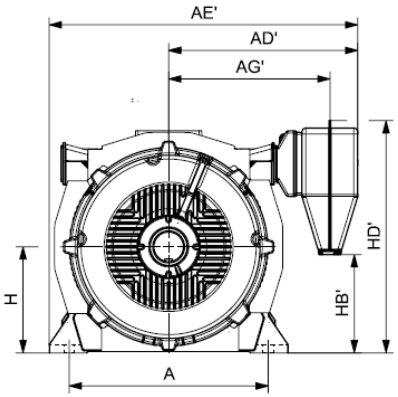

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
4-pole																			
1NA1 404-4AC00-0A.0	3500	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-4AC00-0C.0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-4AC00-0A.0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-4AC00-0C.0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-4AC00-0A.0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-4AC00-0C.0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-4AC00-0A.0	4700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-4AC00-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-4AC00-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-4AC00-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-4AC00-0A.0	5300	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-4AC00-0C.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 504-4AC00-0A.0	6200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-4AC00-0C.0	6500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-4AC00-0A.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-4AC00-0C.0	6900	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-4AC00-0A.0	7200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-4AC00-0C.0	7400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-4AC00-0A.0	8400	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 564-4AC00-0C.0	8700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-4AC00-0A.0	8900	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-4AC00-0C.0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225

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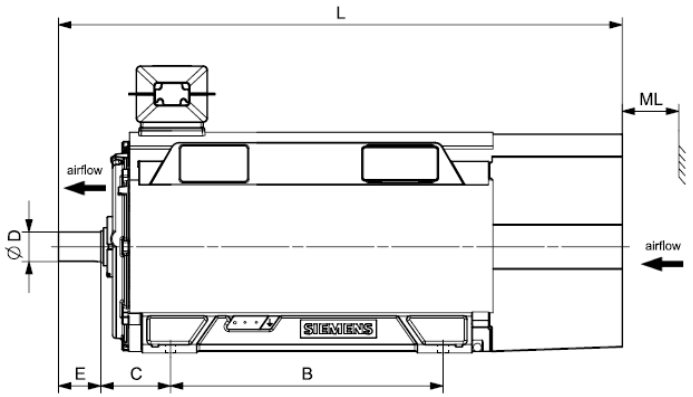

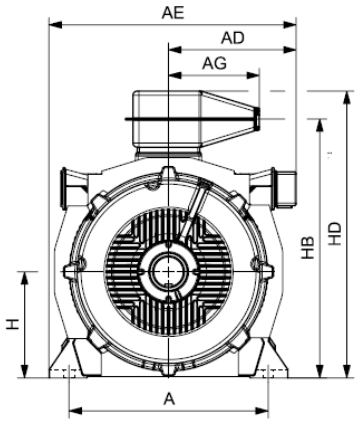

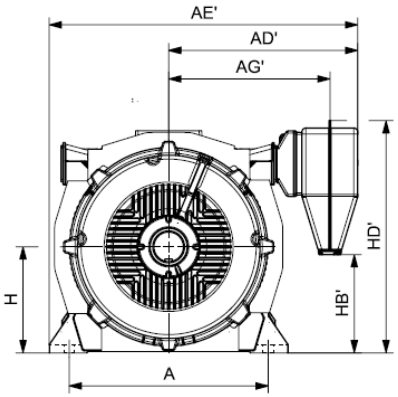

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 568-4AC00-0A.0	9300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-4AC00-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
6-pole																			
1NA1 404-6AC00-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-6AC00-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-6AC00-0AA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-6AC00-0CA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-6AC00-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-6AC00-0CA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-6AC00-0A.0	4600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-6AC00-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-6AC00-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-6AC00-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-6AC00-0A.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-6AC00-0C.0	5700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 502-6AC00-0A.0	6000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 502-6AC00-0C.0	6300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-6AC00-0C.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-6AC00-0A.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-6AC00-0C.0	7100	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-6AC00-0A.0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-6AC00-0A.0	7200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-6AC00-0C.0	7500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200

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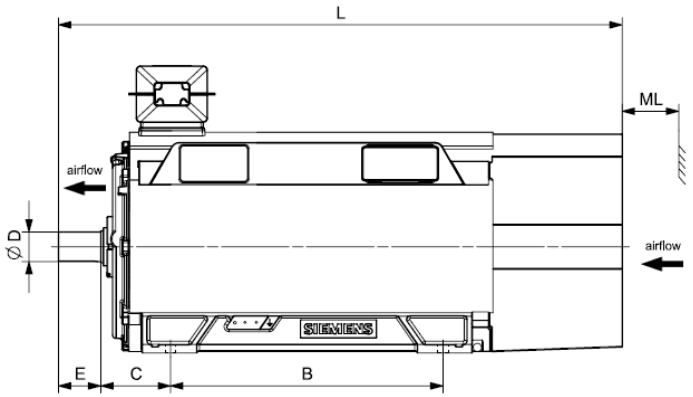

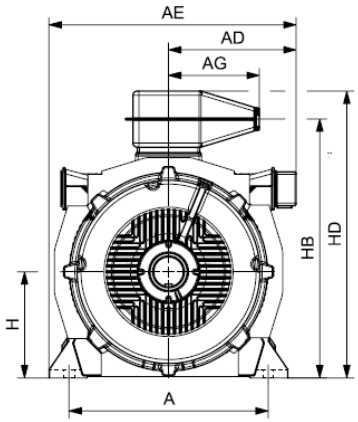

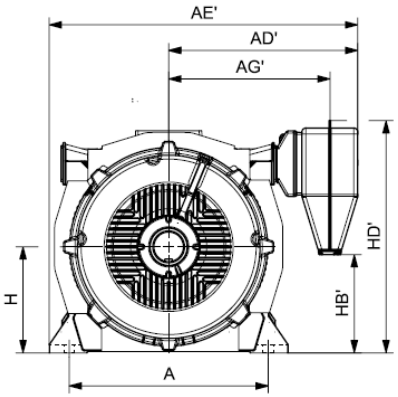

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 564-6AC00-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-6AC00-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-6AC00-0C.0	10300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
8-pole																			
1NA1 404-8AC00-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-8AC00-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-8AC00-0AA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-8AC00-0CA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-8AC00-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-8AC00-0CA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-8AC00-0A.0	4600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-8AC00-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-8AC00-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-8AC00-0C.0	5100	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-8AC00-0A.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-8AC00-0C.0	5700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 504-8AC00-0A.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-8AC00-0C.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-8AC00-0A.0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-8AC00-0C.0	7000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-8AC00-0A.0	7300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-8AC00-0C.0	7600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-8AC00-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225

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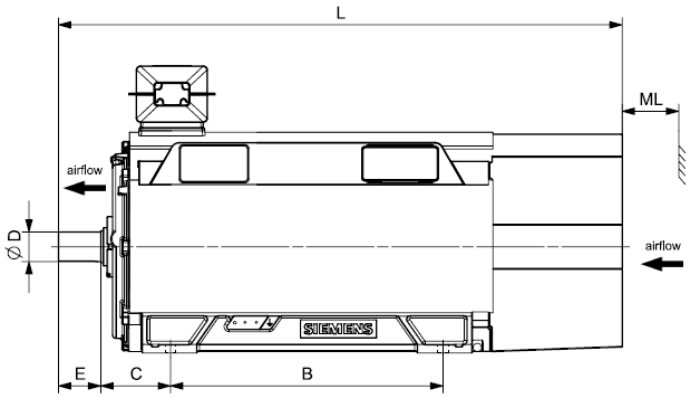

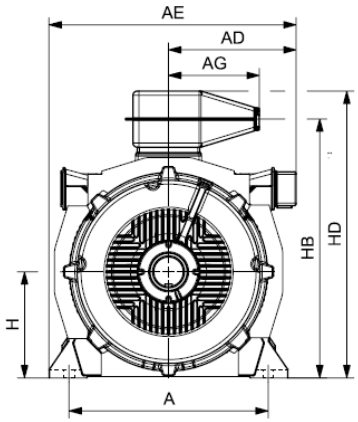

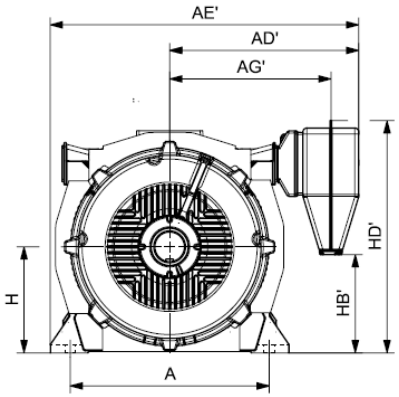

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 566-8AC00-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-8AC00-0C.0	10300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225

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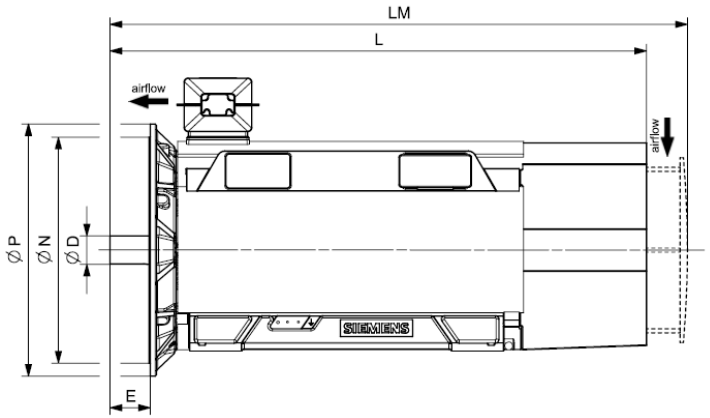

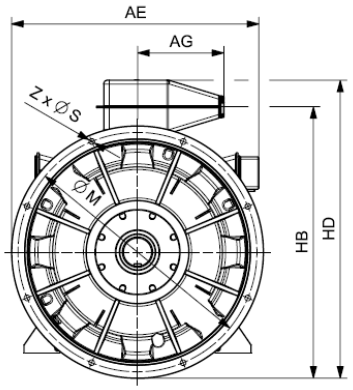

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 404-4AC04-0AA0	3600	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-4AC04-0CA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-4AC04-0AA0	3800	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-4AC04-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-4AC04-0AA0	4100	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-4AC04-0CA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-4AC04-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-4AC04-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-4AC04-0CA0	5400	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-4AC04-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-4AC04-0AA0	5500	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-4AC04-0CA0	5700	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 504-4AC04-0AA0	6400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-4AC04-0CA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-4AC04-0AA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-4AC04-0CA0	7100	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-4AC04-0AA0	7400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-4AC04-0CA0	7600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 564-4AC04-0AA0	8600	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 564-4AC04-0CA0	8900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-4AC04-0AA0	9100	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-4AC04-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

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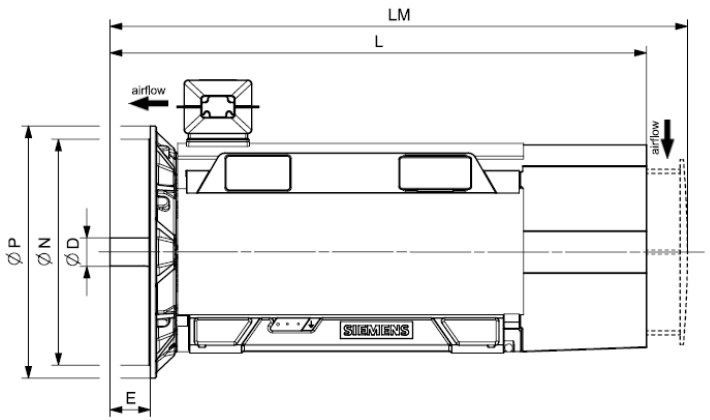

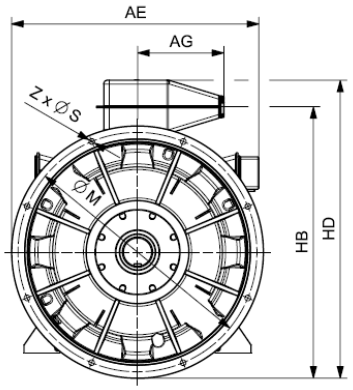

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 568-4AC04-0AA0	9500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-4AC04-0CA0	9900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 404-6AC04-0AA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-6AC04-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-6AC04-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-6AC04-0CA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-6AC04-0AA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-6AC04-0CA0	4400	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-6AC04-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-6AC04-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-6AC04-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-6AC04-0CA0	5400	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-6AC04-0AA0	5600	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-6AC04-0CA0	5900	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 502-6AC04-0AA0	6200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 502-6AC04-0CA0	6400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-6AC04-0CA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-6AC04-0AA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-6AC04-0CA0	7200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-6AC04-0AA0	7000	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-6AC04-0AA0	7400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-6AC04-0CA0	7700	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16

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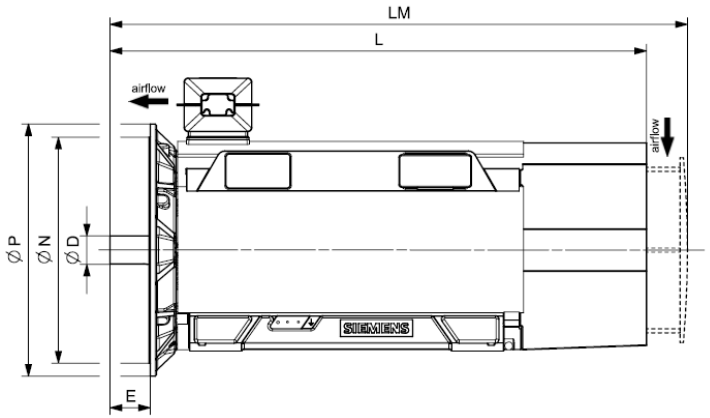

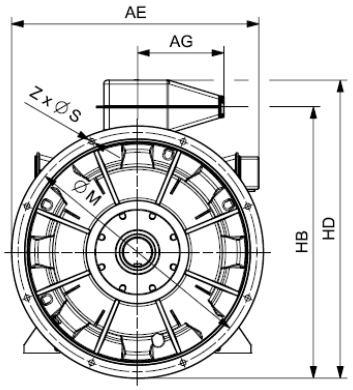

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 564-6AC04-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-6AC04-0CA0	10000	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-6AC04-0CA0	10500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 404-8AC04-0AA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-8AC04-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-8AC04-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-8AC04-0CA0	4100	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-8AC04-0AA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-8AC04-0CA0	4400	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-8AC04-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-8AC04-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-8AC04-0AA0	5100	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-8AC04-0CA0	5300	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-8AC04-0AA0	5600	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-8AC04-0CA0	5800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 504-8AC04-0AA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-8AC04-0CA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-8AC04-0AA0	6900	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-8AC04-0CA0	7200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-8AC04-0AA0	7500	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-8AC04-0CA0	7700	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 564-8AC04-0CA0	9300	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

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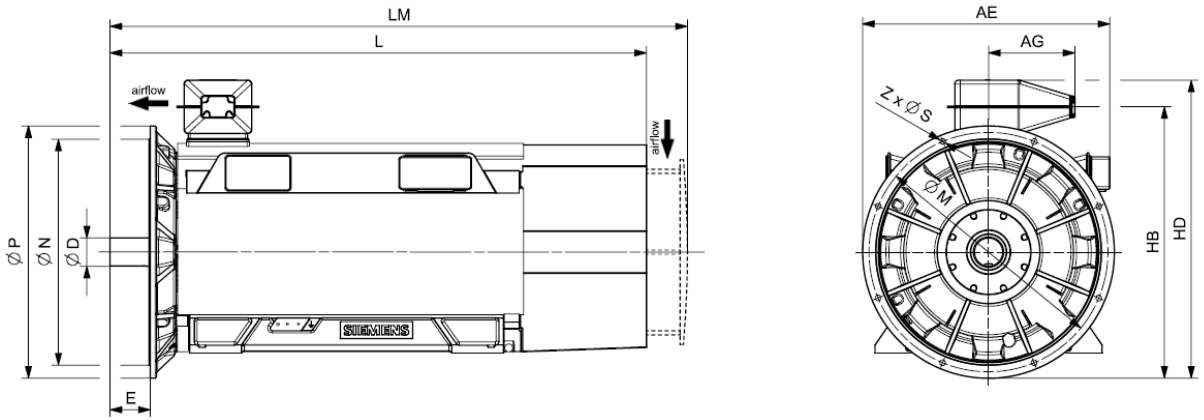

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 566-8AC04-0CA0	9900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-8AC04-0CA0	10500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - Square-law torque drive																						
930	820	**1NA1 402-2AC10-0A.0**	3579	96.5	0.93	870	2481	3.20	10.0	3600	705	3284	96.7	0.91	470	2868	96.4	0.88	235	2272	95.9	0.82
930	820	**1NA1 402-2AC10-0C.0**	3579	96.4	0.93	870	2481	3.10	12.3	3600	705	3284	96.6	0.91	470	2868	96.3	0.88	235	2272	95.6	0.81
950	840	**1NA1 404-2AC10-0A.0**	3580	96.6	0.94	880	2534	3.70	11.0	3600	720	3284	96.7	0.93	480	2868	96.4	0.89	240	2273	95.8	0.83
950	840	**1NA1 404-2AC10-0C.0**	3581	96.5	0.94	880	2533	3.60	13.5	3600	720	3285	96.7	0.92	480	2869	96.2	0.89	240	2273	95.5	0.83
1010	890	**1NA1 406-2AC10-0A.0**	3580	96.6	0.95	920	2694	3.90	12.2	3600	765	3285	96.8	0.93	510	2868	96.4	0.90	255	2273	95.8	0.84
1000	880	**1NA1 406-2AC10-0C.0**	3582	96.5	0.94	920	2666	3.80	14.9	3600	760	3286	96.7	0.93	505	2869	96.2	0.89	250	2273	95.4	0.83
1150	1010	**1NA1 408-2AC10-0A.0**	3582	96.9	0.94	1060	3066	4.20	13.0	3600	870	3286	97.0	0.92	580	2870	96.6	0.88	290	2273	95.9	0.81
1150	1010	**1NA1 408-2AC10-0C.0**	3583	96.8	0.94	1060	3065	4.10	15.9	3600	870	3287	97.0	0.92	580	2870	96.4	0.88	290	2274	95.6	0.81
1200	1060	**1NA1 454-2AC10-0C.0**	3585	96.9	0.94	1100	3196	2.90	19.4	3600	910	3288	97.1	0.93	605	2871	96.8	0.90	300	2275	96.3	0.85
1250	1100	**1NA1 456-2AC10-0C.0**	3583	96.9	0.94	1140	3331	2.70	21.4	3600	945	3287	97.1	0.94	630	2870	96.9	0.92	315	2274	96.5	0.88
1520	1340	**1NA1 458-2AC10-0C.0**	3587	97.3	0.95	1380	4047	3.40	23.1	3600	1150	3290	97.4	0.93	770	2872	97.0	0.91	385	2275	96.4	0.85
1610	1420	**1NA1 504-2AC10-0CC0**	3585	96.6	0.91	1540	4289	2.90	29.2	3600	1220	3289	96.8	0.91	815	2871	96.3	0.89	405	2275	95.3	0.84
1900	1670	**1NA1 506-2AC10-0CC0**	3588	96.9	0.91	1800	5057	3.40	33.0	3600	1440	3291	97.0	0.91	960	2873	96.3	0.88	480	2276	95.1	0.82
1950	1720	**1NA1 508-2AC10-0CC0**	3590	96.9	0.91	1860	5187	3.80	36.0	3600	1475	3292	97.0	0.90	985	2874	96.3	0.87	490	2276	95.1	0.80
2170	1910	**1NA1 566-2AC10-0CC0**	3591	96.9	0.92	2050	5771	3.30	54.6	3600	1645	3293	97.0	0.91	1095	2875	96.3	0.89	545	2277	95.3	0.82
2355	2070	**1NA1 568-2AC10-0CC0**	3593	96.9	0.91	2250	6259	4.40	59.4	3600	1780	3295	97.0	0.89	1185	2876	96.0	0.85	590	2278	94.6	0.75
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - Square-law torque drive																						
960	850	**1NA1 404-4AC10-0A.0**	1791	96.4	0.90	930	5119	3.10	15.6	2600	725	1643	96.6	0.88	485	1434	95.7	0.84	240	1137	94.2	0.75
950	840	**1NA1 404-4AC10-0C.0**	1789	96.5	0.89	930	5071	2.80	19.8	2600	720	1642	96.7	0.88	480	1434	96.0	0.85	240	1136	94.9	0.76
1020	900	**1NA1 406-4AC10-0A.0**	1792	96.5	0.90	980	5435	3.50	17.4	2600	775	1644	96.7	0.87	515	1435	95.5	0.83	255	1137	93.9	0.72
1020	900	**1NA1 406-4AC10-0C.0**	1790	96.6	0.89	990	5441	3.10	22.0	2600	775	1643	96.8	0.87	515	1434	96.0	0.84	255	1137	94.7	0.74
1120	990	**1NA1 408-4AC10-0A.0**	1792	96.6	0.90	1080	5968	3.80	19.7	2600	850	1644	96.8	0.87	565	1435	95.5	0.83	280	1137	93.7	0.72
1150	1010	**1NA1 408-4AC10-0C.0**	1791	96.7	0.90	1100	6132	3.30	24.9	2600	870	1643	96.9	0.88	580	1435	96.0	0.84	290	1137	94.7	0.74
1320	1160	**1NA1 454-4AC10-0A.0**	1791	96.9	0.90	1260	7038	3.20	26.4	2400	1000	1643	97.0	0.88	665	1435	96.1	0.84	335	1137	95.0	0.75
1310	1150	**1NA1 454-4AC10-0C.0**	1792	96.8	0.89	1280	6981	2.90	33.9	2400	995	1644	97.0	0.87	660	1435	96.2	0.83	330	1137	95.1	0.74
1470	1300	**1NA1 456-4AC10-0A.0**	1791	97.0	0.91	1400	7838	3.20	30.5	2400	1115	1643	97.2	0.89	740	1435	96.3	0.85	370	1137	95.2	0.77
1450	1280	**1NA1 456-4AC10-0C.0**	1792	97.0	0.90	1380	7727	2.90	39.0	2400	1100	1644	97.1	0.88	730	1435	96.4	0.84	365	1137	95.3	0.76
1600	1410	**1NA1 458-4AC10-0C.0**	1792	97.1	0.89	1540	8526	3.00	42.8	2400	1210	1644	97.3	0.87	810	1436	96.5	0.83	405	1137	95.5	0.74
1600	1410	**1NA1 458-4AC10-0A.0**	1792	97.1	0.90	1540	8526	3.30	33.6	2400	1210	1644	97.3	0.88	810	1435	96.5	0.84	405	1137	95.4	0.75
1610	1420	**1NA1 504-4AC10-0A.0**	1790	96.2	0.89	1580	8589	2.60	32.6	2200	1220	1642	96.4	0.88	815	1434	95.9	0.86	405	1136	94.8	0.79
1610	1420	**1NA1 504-4AC10-0C.0**	1790	96.3	0.87	1600	8589	2.10	42.5	2200	1220	1643	96.5	0.87	815	1434	96.1	0.85	405	1137	95.1	0.79
1870	1650	**1NA1 506-4AC10-0A.0**	1791	96.6	0.89	1820	9971	3.00	37.1	2200	1415	1643	96.7	0.87	945	1435	95.9	0.84	470	1137	94.6	0.76
1870	1650	**1NA1 506-4AC10-0C.0**	1792	96.7	0.87	1860	9965	2.30	48.0	2200	1415	1644	96.8	0.87	945	1435	96.2	0.84	470	1137	95.1	0.77
1900	1670	**1NA1 508-4AC10-0A.0**	1792	96.6	0.90	1820	10125	3.20	42.5	2200	1440	1644	96.7	0.89	960	1435	95.8	0.85	480	1137	94.4	0.77

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SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1900	1670	**1NA1 508-4AC10-0C.0**	1792	96.7	0.89	1840	10125	2.50	54.7	2200	1440	1644	96.8	0.88	960	1436	96.1	0.85	480	1137	94.8	0.77
2210	1950	**1NA1 564-4AC10-0A.0**	1793	96.5	0.88	2200	11770	2.60	60.0	2000	1675	1644	96.6	0.87	1115	1436	96.0	0.85	555	1137	95.0	0.77
2210	1950	**1NA1 564-4AC10-0C.0**	1792	96.6	0.87	2200	11777	2.30	79.4	2000	1675	1644	96.7	0.87	1115	1436	96.2	0.84	555	1137	95.3	0.78
2270	2000	**1NA1 566-4AC10-0A.0**	1792	96.5	0.89	2200	12096	2.60	66.7	2000	1720	1644	96.6	0.88	1145	1436	96.1	0.86	570	1137	95.3	0.80
2270	2000	**1NA1 566-4AC10-0C.0**	1792	96.6	0.89	2200	12096	2.30	88.1	2000	1720	1644	96.8	0.88	1145	1436	96.2	0.86	570	1137	95.4	0.80
2550	2250	**1NA1 568-4AC10-0A.0**	1794	96.7	0.90	2450	13573	3.50	73.5	2000	1930	1646	96.8	0.88	1285	1437	95.9	0.83	640	1138	94.6	0.74
2560	2260	**1NA1 568-4AC10-0C.0**	1794	96.8	0.90	2450	13627	3.00	96.7	2000	1940	1646	96.9	0.88	1290	1437	96.1	0.84	645	1138	94.9	0.75
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - Square-law torque drive																						
780	690	**1NA1 404-6AC10-0AA0**	1194	96.2	0.88	770	6238	2.90	25.8	2400	590	1096	96.5	0.86	395	957	95.1	0.83	195	758	93.2	0.74
770	680	**1NA1 404-6AC10-0CA0**	1193	96.3	0.87	770	6163	2.60	33.2	2400	585	1095	96.7	0.86	390	956	95.8	0.83	195	758	94.4	0.75
820	720	**1NA1 406-6AC10-0AA0**	1195	96.3	0.88	810	6553	3.40	29.6	2400	620	1096	96.6	0.85	415	957	94.9	0.81	205	758	92.7	0.70
820	720	**1NA1 406-6AC10-0CA0**	1194	96.5	0.88	810	6558	2.90	38.0	2400	620	1095	96.8	0.86	415	957	95.7	0.82	205	758	94.1	0.72
860	760	**1NA1 408-6AC10-0AA0**	1195	96.2	0.86	870	6872	4.40	33.5	2400	650	1096	96.4	0.82	435	957	94.2	0.75	215	758	91.3	0.62
910	800	**1NA1 408-6AC10-0CA0**	1195	96.6	0.87	910	7272	3.50	42.0	2400	690	1096	96.8	0.83	460	957	95.4	0.78	230	758	93.5	0.65
1100	970	**1NA1 454-6AC10-0A.0**	1194	96.5	0.86	1100	8798	3.00	39.5	2200	835	1095	96.6	0.83	555	956	95.5	0.79	275	758	93.9	0.68
1110	980	**1NA1 454-6AC10-0C.0**	1193	96.6	0.85	1140	8885	2.60	49.1	2200	840	1095	96.8	0.84	560	956	96.0	0.81	280	758	94.8	0.71
1150	1010	**1NA1 456-6AC10-0A.0**	1194	96.7	0.86	1160	9197	3.30	45.9	2200	870	1096	96.7	0.83	580	957	95.6	0.78	290	758	93.8	0.66
1170	1030	**1NA1 456-6AC10-0C.0**	1194	96.8	0.86	1180	9357	2.80	56.8	2200	885	1095	97.0	0.84	590	956	96.1	0.80	295	758	94.8	0.70
1200	1060	**1NA1 458-6AC10-0A.0**	1195	96.8	0.87	1200	9589	3.30	54.3	2200	910	1096	96.8	0.84	605	957	95.6	0.80	300	758	93.8	0.69
1200	1060	**1NA1 458-6AC10-0C.0**	1194	96.9	0.87	1200	9597	2.90	67.0	2200	910	1096	97.0	0.84	605	957	96.0	0.81	300	758	94.5	0.71
1400	1240	**1NA1 502-6AC10-0A.0**	1191	96.4	0.83	1460	11225	2.00	52.8	2100	1060	1093	96.7	0.83	710	955	96.2	0.83	355	757	95.1	0.76
1500	1320	**1NA1 502-6AC10-0C.0**	1193	96.6	0.86	1520	12007	1.80	67.6	2100	1135	1095	96.9	0.86	760	956	96.6	0.85	380	758	95.7	0.79
1550	1370	**1NA1 504-6AC10-0A.0**	1193	96.6	0.84	1600	12407	2.40	59.7	2100	1175	1095	96.8	0.83	785	956	96.2	0.81	390	757	94.8	0.72
1650	1450	**1NA1 504-6AC10-0C.0**	1194	96.8	0.86	1660	13196	2.10	76.2	2100	1250	1096	97.0	0.86	835	957	96.5	0.83	415	758	95.5	0.75
1600	1410	**1NA1 506-6AC10-0A.0**	1193	96.6	0.86	1620	12807	2.40	67.4	2100	1215	1095	96.9	0.85	810	956	96.1	0.83	405	758	94.7	0.74
1700	1500	**1NA1 506-6AC10-0C.0**	1194	96.8	0.87	1680	13596	2.10	85.6	2100	1290	1096	97.0	0.87	860	957	96.5	0.85	430	758	95.3	0.76
1850	1630	**1NA1 508-6AC10-0A.0**	1194	96.8	0.86	1860	14796	2.70	76.4	2100	1400	1095	97.0	0.84	935	956	96.0	0.81	465	758	94.3	0.71
1960	1730	**1NA1 508-6AC10-0C.0**	1195	97.0	0.87	1940	15662	2.40	96.8	2100	1485	1096	97.2	0.86	990	957	96.4	0.83	495	758	95.1	0.73
2300	2030	**1NA1 564-6AC10-0C.0**	1195	97.2	0.87	2300	18379	2.70	136.8	2000	1740	1096	97.4	0.86	1160	957	96.5	0.84	580	758	94.9	0.74
2420	2130	**1NA1 566-6AC10-0C.0**	1195	97.2	0.88	2350	19338	2.50	151.9	2000	1835	1096	97.4	0.87	1220	957	96.5	0.86	610	758	95.1	0.77
2510	2210	**1NA1 568-6AC10-0C.0**	1196	97.2	0.88	2450	20041	2.90	167.0	2000	1900	1097	97.4	0.86	1265	957	96.4	0.84	630	758	94.8	0.74
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - Square-law torque drive																						
600	530	**1NA1 404-8AC10-0AA0**	893	95.9	0.84	620	6416	2.70	26.7	2400	455	820	96.1	0.82	305	716	94.7	0.77	150	568	92.6	0.66
580	510	**1NA1 404-8AC10-0CA0**	892	95.8	0.82	620	6209	2.30	32.8	2400	440	819	96.0	0.80	295	715	95.0	0.76	145	567	93.2	0.66
630	560	**1NA1 406-8AC10-0AA0**	894	96.0	0.84	650	6729	3.10	30.6	2400	480	821	96.0	0.80	320	717	94.3	0.74	160	568	91.7	0.61

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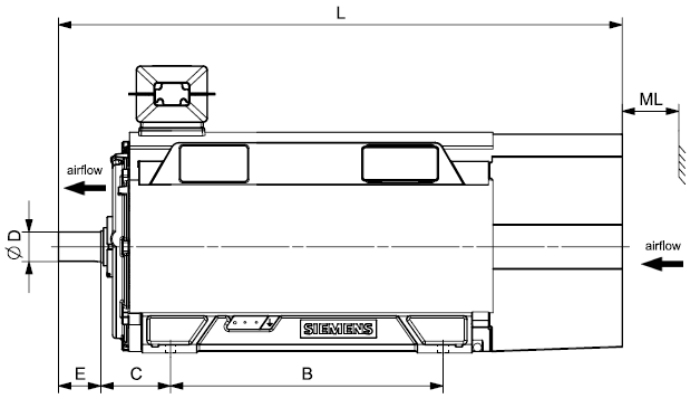
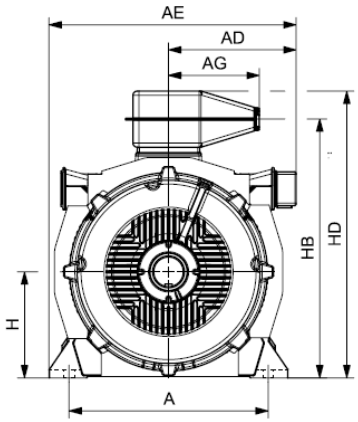
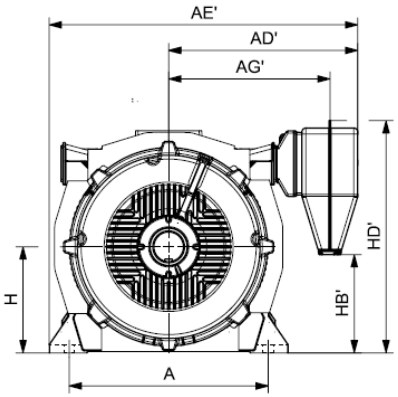
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque

Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
620	550	**1NA1 406-8AC10-0CA0**	893	96.0	0.83	650	6630	2.70	37.6	2400	470	820	96.1	0.80	315	716	94.7	0.74	155	568	92.6	0.63
660	580	**1NA1 408-8AC10-0AA0**	894	96.1	0.84	680	7050	3.20	33.8	2400	500	821	96.1	0.80	335	717	94.4	0.74	165	568	91.7	0.61
650	570	**1NA1 408-8AC10-0CA0**	894	96.1	0.83	680	6943	2.80	41.5	2400	495	820	96.2	0.80	330	716	94.8	0.74	165	568	92.6	0.62
860	760	**1NA1 454-8AC10-0A.0**	892	95.8	0.80	940	9207	2.00	40.0	2200	650	819	96.1	0.80	435	716	95.2	0.77	215	567	93.6	0.68
850	750	**1NA1 454-8AC10-0C.0**	891	95.8	0.81	920	9110	2.10	48.8	2200	645	818	96.1	0.79	430	715	95.3	0.78	215	567	94.0	0.69
1300	1150	**1NA1 456-8AC10-0A.0**	892	96.1	0.80	1420	13917	2.00	46.4	2200	985	819	96.4	0.79	660	715	95.5	0.77	330	567	94.0	0.67
1000	880	**1NA1 456-8AC10-0C.0**	893	96.2	0.79	1100	10694	2.60	56.4	2200	760	820	96.4	0.77	505	716	95.3	0.73	255	567	93.6	0.61
1020	900	**1NA1 458-8AC10-0A.0**	894	96.2	0.81	1100	10895	2.80	54.9	2200	775	821	96.3	0.78	515	717	94.8	0.73	255	568	92.3	0.60
1020	900	**1NA1 458-8AC10-0C.0**	894	96.3	0.81	1100	10895	2.90	66.6	2200	775	820	96.4	0.78	515	716	95.1	0.74	255	568	93.0	0.61
1100	970	**1NA1 504-8AC10-0A.0**	893	96.0	0.81	1180	11763	1.70	58.9	2100	835	820	96.1	0.80	555	716	95.8	0.78	280	568	94.5	0.70
1150	1010	**1NA1 504-8AC10-0C.0**	893	95.9	0.85	1180	12298	2.00	75.7	2100	870	820	96.0	0.84	580	716	95.5	0.81	290	568	94.1	0.73
1170	1030	**1NA1 506-8AC10-0A.0**	893	96.0	0.82	1240	12511	1.80	66.4	2100	885	820	96.2	0.81	590	716	95.8	0.78	295	568	94.4	0.70
1200	1060	**1NA1 506-8AC10-0C.0**	894	96.0	0.85	1240	12818	2.10	85.2	2100	910	820	96.0	0.84	605	717	95.5	0.81	305	568	93.9	0.72
1320	1160	**1NA1 508-8AC10-0C.0**	895	96.1	0.85	1360	14084	2.50	96.4	2100	1000	821	96.1	0.82	665	717	95.3	0.77	335	568	93.4	0.66
1320	1160	**1NA1 508-8AC10-0A.0**	894	96.3	0.81	1420	14100	2.20	75.3	2100	1000	821	96.3	0.79	665	717	95.7	0.75	335	568	94.1	0.65
1700	1500	**1NA1 564-8AC10-0C.0**	894	96.6	0.85	1740	18159	1.90	136.4	2000	1290	820	96.9	0.85	860	716	96.3	0.84	430	568	95.1	0.76
1820	1600	**1NA1 566-8AC10-0C.0**	894	96.8	0.85	1860	19440	2.10	151.8	2000	1380	821	97.0	0.85	920	717	96.1	0.83	460	568	94.6	0.73
1910	1680	**1NA1 568-8AC10-0C.0**	895	96.9	0.85	1940	20379	2.20	167.1	2000	1450	821	97.0	0.84	965	717	96.2	0.82	480	568	94.6	0.72







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2AC10-0A.0	3300	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 402-2AC10-0C.0	3400	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 404-2AC10-0A.0	3500	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 404-2AC10-0C.0	3600	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 406-2AC10-0A.0	3600	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 406-2AC10-0C.0	3700	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 408-2AC10-0A.0	3800	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 408-2AC10-0C.0	3900	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 454-2AC10-0C.0	4700	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 456-2AC10-0C.0	4900	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 458-2AC10-0C.0	5100	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 504-2AC10-0CC0	6100	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 506-2AC10-0CC0	6500	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 508-2AC10-0CC0	6900	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 566-2AC10-0CC0	8400	1060	670	1089	1305	1724	371	945	1400	560	120	165	560	1470	627	1635	1300	2922	225
1NA1 568-2AC10-0CC0	8700	1060	670	1089	1305	1724	371	945	1400	560	120	165	560	1470	627	1635	1300	2922	225
4-pole																			
1NA1 404-4AC10-0A.0	3500	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-4AC10-0C.0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-4AC10-0A.0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-4AC10-0C.0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-4AC10-0A.0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160

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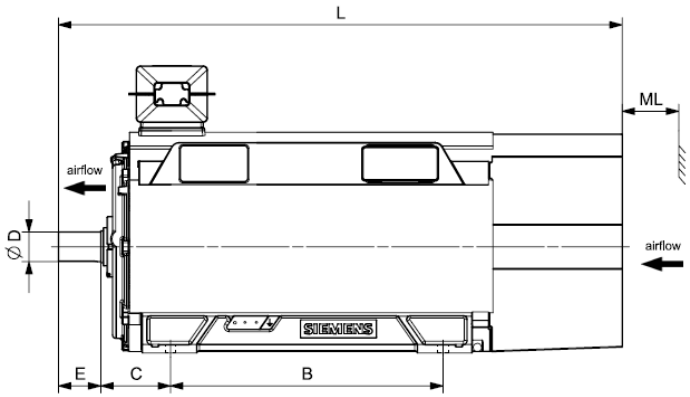

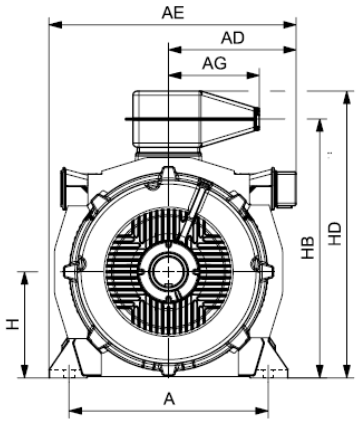

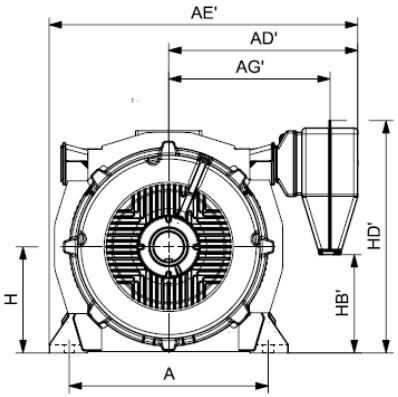

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 408-4AC10-0C.0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-4AC10-0A.0	4700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-4AC10-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-4AC10-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-4AC10-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-4AC10-0C.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-4AC10-0A.0	5300	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 504-4AC10-0A.0	6200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-4AC10-0C.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-4AC10-0A.0	6700	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-4AC10-0C.0	6900	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-4AC10-0A.0	7100	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-4AC10-0C.0	7400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-4AC10-0A.0	8300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 564-4AC10-0C.0	8600	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-4AC10-0A.0	8800	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-4AC10-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-4AC10-0A.0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-4AC10-0C.0	9600	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
6-pole																			
1NA1 404-6AC10-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-6AC10-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-6AC10-0AA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160

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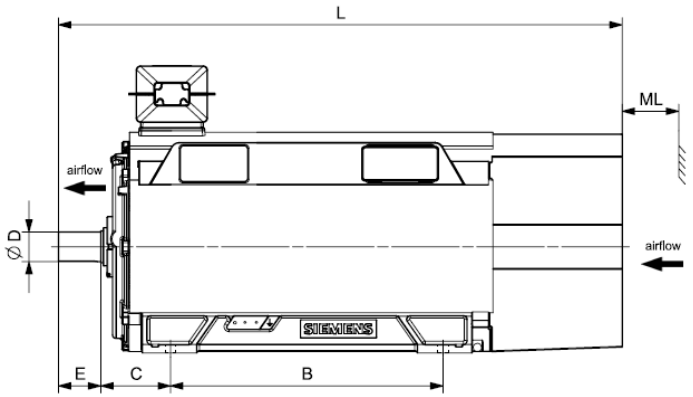

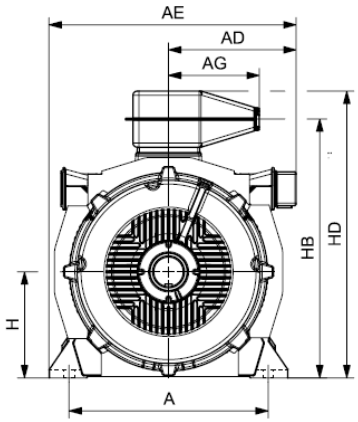

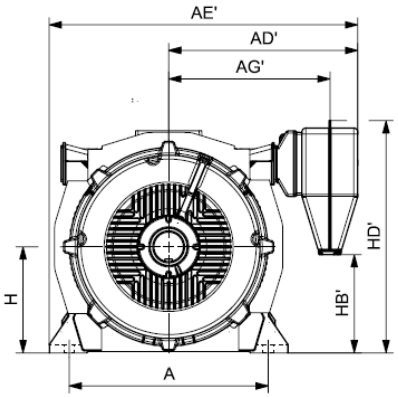

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 406-6AC10-0CA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-6AC10-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-6AC10-0CA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-6AC10-0A.0	4600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-6AC10-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-6AC10-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-6AC10-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-6AC10-0A.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-6AC10-0C.0	5700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 502-6AC10-0A.0	6100	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 502-6AC10-0C.0	6300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-6AC10-0A.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-6AC10-0C.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-6AC10-0A.0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-6AC10-0C.0	7000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-6AC10-0A.0	7300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-6AC10-0C.0	7600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-6AC10-0C.0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-6AC10-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-6AC10-0C.0	10200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
8-pole																			
1NA1 404-8AC10-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-8AC10-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160

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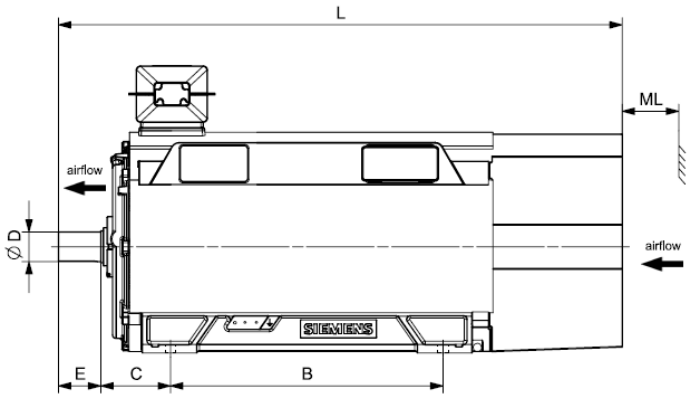

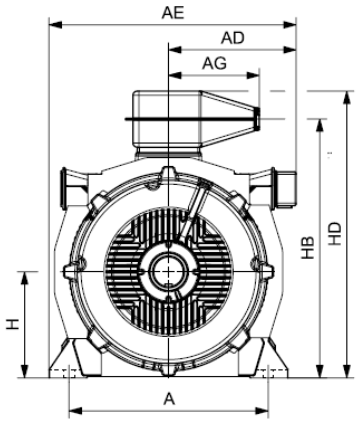

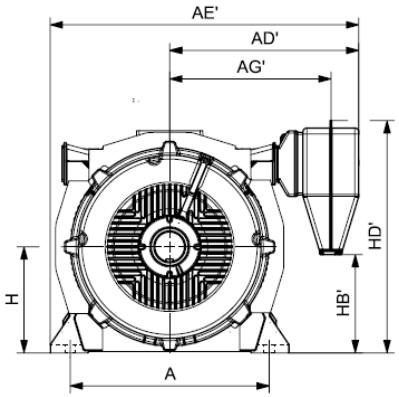

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 406-8AC10-0AA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-8AC10-0CA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-8AC10-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-8AC10-0CA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-8AC10-0A.0	4600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-8AC10-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-8AC10-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-8AC10-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-8AC10-0A.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-8AC10-0C.0	5600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 504-8AC10-0A.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-8AC10-0C.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-8AC10-0A.0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-8AC10-0C.0	7000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-8AC10-0C.0	7500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-8AC10-0A.0	7300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-8AC10-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-8AC10-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-8AC10-0C.0	10200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225

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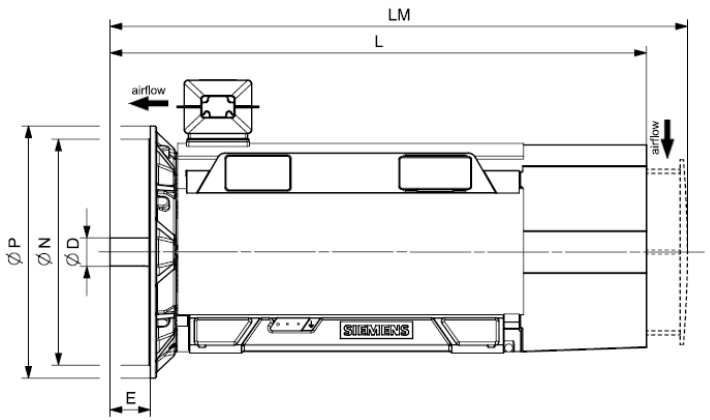

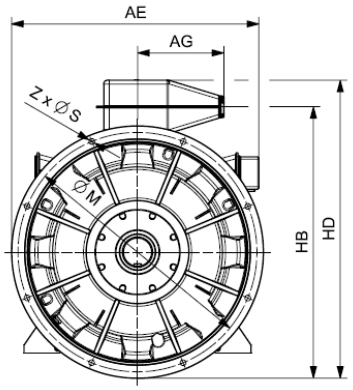

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 404-4AC14-0AA0	3600	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-4AC14-0CA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-4AC14-0AA0	3800	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-4AC14-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-4AC14-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-4AC14-0CA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-4AC14-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-4AC14-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-4AC14-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-4AC14-0CA0	5400	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-4AC14-0CA0	5700	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-4AC14-0AA0	5500	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 504-4AC14-0AA0	6400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-4AC14-0CA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-4AC14-0AA0	6900	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-4AC14-0CA0	7100	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-4AC14-0AA0	7300	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-4AC14-0CA0	7600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 564-4AC14-0AA0	8500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 564-4AC14-0CA0	8900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-4AC14-0AA0	9000	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-4AC14-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

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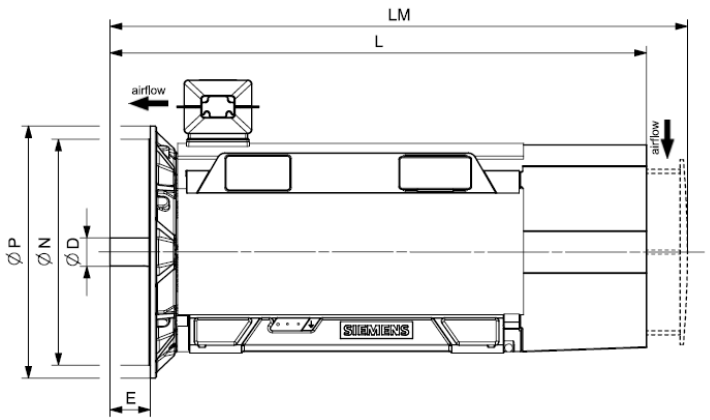

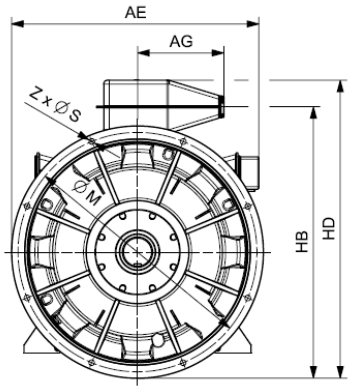

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 568-4AC14-0AA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-4AC14-0CA0	9800	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 404-6AC14-0AA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-6AC14-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-6AC14-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-6AC14-0CA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-6AC14-0AA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-6AC14-0CA0	4400	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-6AC14-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-6AC14-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-6AC14-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-6AC14-0CA0	5400	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-6AC14-0AA0	5600	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-6AC14-0CA0	5900	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 502-6AC14-0AA0	6200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 502-6AC14-0CA0	6500	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-6AC14-0AA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-6AC14-0CA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-6AC14-0AA0	6900	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-6AC14-0CA0	7200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-6AC14-0AA0	7500	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-6AC14-0CA0	7800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16

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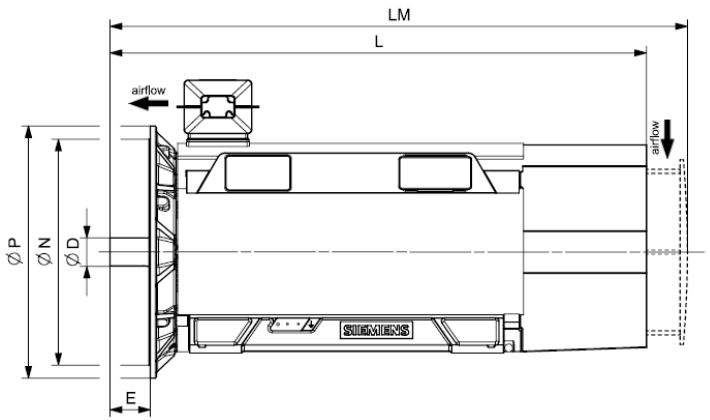

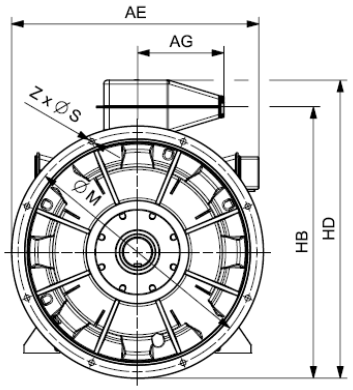

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 564-6AC14-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-6AC14-0CA0	9900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-6AC14-0CA0	10400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 404-8AC14-0AA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-8AC14-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-8AC14-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-8AC14-0CA0	4100	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-8AC14-0AA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-8AC14-0CA0	4400	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-8AC14-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-8AC14-0CA0	4900	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-8AC14-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-8AC14-0CA0	5300	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-8AC14-0AA0	5600	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-8AC14-0CA0	5800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 504-8AC14-0AA0	6500	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-8AC14-0CA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-8AC14-0AA0	7000	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-8AC14-0CA0	7200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-8AC14-0CA0	7700	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-8AC14-0AA0	7400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 564-8AC14-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

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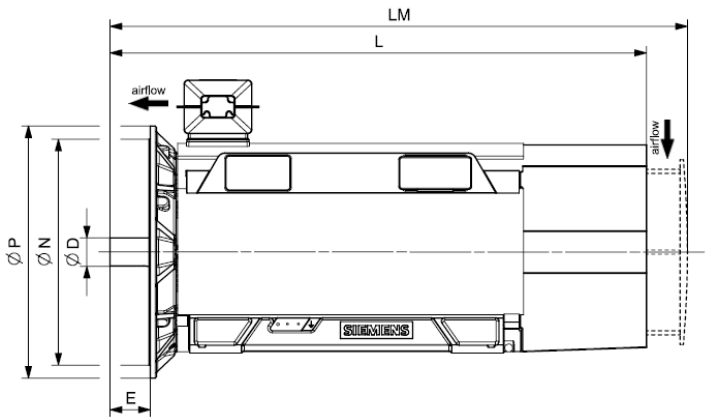

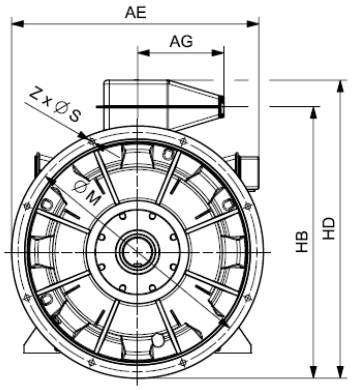

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 566-8AC14-0CA0	9900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-8AC14-0CA0	10500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - Square-law torque drive																							
	960	**1NA1 454-2AR40-0A.0**	2986	96.9	0.90	152	3070	2.90	14.3	3600	715	2688	97.0	0.90	485	2391	97.0	0.87	235	1855	96.8	0.83
	950	**1NA1 454-2AR40-0C.0**	2983	96.7	0.90	152	3041	2.50	18.4	3600	705	2686	96.9	0.90	480	2390	96.9	0.87	235	1854	96.6	0.82
	1050	**1NA1 456-2AR40-0A.0**	2986	97.0	0.91	166	3358	3.10	15.8	3600	780	2689	97.1	0.90	530	2392	97.1	0.88	260	1855	96.8	0.83
	1020	**1NA1 456-2AR40-0C.0**	2984	96.9	0.91	160	3264	2.70	20.3	3600	760	2687	97.0	0.90	515	2390	96.9	0.88	250	1854	96.6	0.82
	1170	**1NA1 458-2AR40-0A.0**	2987	97.1	0.92	182	3740	3.40	17.0	3600	870	2690	97.2	0.90	590	2392	97.2	0.88	290	1855	96.8	0.82
	1150	**1NA1 458-2AR40-0C.0**	2985	97.0	0.91	180	3679	2.80	21.9	3600	855	2688	97.1	0.90	580	2391	97.0	0.88	285	1854	96.6	0.82
	1310	**1NA1 504-2AR40-0AC0**	2987	96.9	0.90	210	4188	3.20	22.6	3600	975	2689	97.1	0.90	660	2392	97.1	0.87	325	1855	96.8	0.82
	1310	**1NA1 504-2AR40-0C.0**	2987	96.8	0.90	210	4188	2.80	27.0	3000	975	2690	97.0	0.90	660	2392	97.0	0.87	325	1855	96.6	0.82
	1450	**1NA1 506-2AR40-0AC0**	2987	97.1	0.91	230	4636	3.20	25.7	3600	1080	2689	97.2	0.90	730	2392	97.2	0.88	360	1855	97.0	0.83
	1450	**1NA1 506-2AR40-0C.0**	2988	97.0	0.90	230	4634	2.80	31.0	3000	1080	2690	97.1	0.90	730	2393	97.1	0.88	360	1855	96.8	0.83
	1600	**1NA1 508-2AR40-0AC0**	2989	97.2	0.91	250	5112	3.90	28.1	3600	1190	2691	97.3	0.90	805	2393	97.3	0.88	395	1856	96.9	0.81
	1600	**1NA1 508-2AR40-0C.0**	2990	97.1	0.91	250	5110	3.30	34.0	3000	1190	2691	97.2	0.90	810	2394	97.1	0.87	395	1856	96.7	0.81
	1900	**1NA1 566-2AR40-0C.0**	2990	97.3	0.91	300	6068	2.70	55.4	3000	1415	2692	97.3	0.91	960	2394	97.3	0.90	470	1856	97.1	0.85
	2100	**1NA1 568-2AR40-0C.0**	2991	97.4	0.92	325	6705	2.90	60.1	3000	1560	2693	97.5	0.91	1060	2395	97.4	0.90	520	1857	97.1	0.84
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - Square-law torque drive																							
	960	**1NA1 454-4AR40-0A.0**	1493	96.6	0.85	162	6140	3.30	21.6	2400	715	1344	96.7	0.82	485	1196	96.5	0.77	235	927	96.0	0.65
	960	**1NA1 454-4AR40-0C.0**	1493	96.6	0.84	164	6140	2.70	27.6	2400	715	1344	96.7	0.82	485	1196	96.6	0.78	235	927	96.1	0.67
	1050	**1NA1 456-4AR40-0A.0**	1493	96.7	0.86	176	6716	3.30	24.8	2400	780	1344	96.8	0.84	530	1196	96.7	0.79	260	927	96.1	0.68
	1050	**1NA1 456-4AR40-0C.0**	1493	96.7	0.85	178	6716	2.70	31.8	2400	780	1344	96.8	0.83	530	1196	96.7	0.79	260	927	96.2	0.69
	1160	**1NA1 458-4AR40-0A.0**	1494	96.8	0.85	196	7414	3.70	27.3	2400	865	1345	96.9	0.82	585	1196	96.7	0.76	285	928	96.1	0.63
	1170	**1NA1 458-4AR40-0C.0**	1494	96.8	0.84	200	7478	3.00	34.8	2400	870	1345	96.9	0.82	590	1196	96.8	0.77	290	928	96.3	0.65
	1300	**1NA1 504-4AR40-0A.0**	1492	96.6	0.87	215	8320	2.70	32.6	2200	965	1343	96.7	0.87	655	1195	96.7	0.83	320	927	96.4	0.75
	1300	**1NA1 504-4AR40-0C.0**	1492	96.6	0.86	215	8320	2.10	42.5	2200	965	1344	96.8	0.85	655	1195	96.8	0.83	320	927	96.6	0.76
	1460	**1NA1 506-4AR40-0A.0**	1492	96.7	0.88	240	9344	2.90	37.1	2200	1085	1344	96.8	0.87	735	1195	96.8	0.83	360	927	96.5	0.75
	1460	**1NA1 506-4AR40-0C.0**	1493	96.8	0.87	240	9338	2.30	48.0	2200	1085	1344	96.9	0.86	735	1196	96.9	0.83	360	927	96.6	0.76
	1520	**1NA1 508-4AR40-0A.0**	1494	96.8	0.88	250	9715	3.50	42.5	2200	1130	1345	96.9	0.86	765	1196	96.8	0.81	375	928	96.4	0.71
	1550	**1NA1 508-4AR40-0C.0**	1494	96.9	0.87	255	9907	2.70	54.7	2200	1155	1345	97.0	0.86	785	1196	96.9	0.82	380	928	96.6	0.73
	1810	**1NA1 562-4AR40-0C.0**	1493	96.9	0.86	300	11577	2.10	72.5	2000	1345	1345	97.0	0.85	915	1196	97.0	0.82	445	928	96.8	0.75
	1820	**1NA1 562-4AR40-0A.0**	1493	96.9	0.87	300	11641	2.50	54.5	2000	1355	1345	97.0	0.85	920	1196	96.9	0.82	450	928	96.6	0.74
	2020	**1NA1 564-4AR40-0A.0**	1494	97.0	0.88	330	12911	2.70	60.0	2000	1505	1345	97.1	0.86	1020	1196	97.0	0.83	500	928	96.7	0.74
	2010	**1NA1 564-4AR40-0C.0**	1494	97.1	0.87	330	12847	2.30	79.4	2000	1495	1345	97.2	0.86	1015	1196	97.1	0.83	495	928	96.8	0.75
	2200	**1NA1 566-4AR40-0A.0**	1494	97.2	0.88	355	14062	2.80	66.7	2000	1635	1345	97.2	0.87	1110	1196	97.1	0.83	545	928	96.7	0.74
	2200	**1NA1 566-4AR40-0C.0**	1494	97.2	0.87	360	14062	2.40	88.1	2000	1635	1345	97.3	0.86	1110	1196	97.2	0.83	545	928	96.9	0.75
	2360	**1NA1 568-4AR40-0A.0**	1495	97.2	0.88	385	15074	3.10	73.5	2000	1755	1346	97.3	0.86	1190	1197	97.1	0.82	580	928	96.7	0.73

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SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
	2370	**1NA1 568-4AR40-0C.0**	1495	97.3	0.88	385	15138	2.60	96.7	2000	1765	1346	97.4	0.86	1195	1197	97.2	0.83	585	928	96.9	0.74
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - Square-law torque drive																							
	710	**1NA1 454-6AR40-0A.0**	994	96.3	0.80	128	6821	2.40	31.8	2200	530	895	96.3	0.78	360	796	96.2	0.75	175	618	95.5	0.64
	720	**1NA1 454-6AR40-0C.0**	994	96.4	0.83	124	6917	2.50	41.0	2200	535	895	96.4	0.81	365	796	96.3	0.77	180	618	95.6	0.66
	800	**1NA1 456-6AR40-0A.0**	994	96.4	0.81	142	7686	2.40	36.9	2200	595	895	96.4	0.80	405	797	96.4	0.76	195	618	95.7	0.65
	800	**1NA1 456-6AR40-0C.0**	994	96.4	0.84	138	7686	2.60	47.3	2200	595	895	96.5	0.82	405	797	96.4	0.77	195	618	95.7	0.66
	860	**1NA1 458-6AR40-0A.0**	995	96.5	0.82	150	8254	2.60	43.6	2200	640	896	96.5	0.80	435	797	96.4	0.75	210	618	95.7	0.64
	870	**1NA1 458-6AR40-0C.0**	995	96.5	0.84	148	8350	2.80	55.8	2200	645	896	96.5	0.81	440	797	96.4	0.77	215	618	95.7	0.65
	950	**1NA1 502-6AR40-0A.0**	994	96.3	0.84	162	9127	2.60	52.8	2100	705	895	96.5	0.83	480	796	96.5	0.80	235	618	96.1	0.70
	1000	**1NA1 502-6AR40-0C.0**	995	96.4	0.86	168	9597	2.30	67.6	2100	745	896	96.6	0.85	505	797	96.7	0.83	245	618	96.4	0.73
	1050	**1NA1 504-6AR40-0A.0**	994	96.4	0.85	178	10087	2.40	59.7	2100	780	895	96.7	0.84	530	796	96.7	0.82	260	618	96.4	0.74
	1120	**1NA1 504-6AR40-0C.0**	995	96.6	0.87	184	10749	2.10	76.2	2100	835	896	96.8	0.87	565	797	96.9	0.85	275	618	96.7	0.77
	1180	**1NA1 506-6AR40-0A.0**	994	96.6	0.85	200	11336	2.60	67.4	2100	880	895	96.8	0.84	595	796	96.8	0.81	290	618	96.4	0.72
	1250	**1NA1 506-6AR40-0C.0**	995	96.8	0.87	205	11997	2.30	85.6	2100	930	896	97.0	0.86	630	797	97.0	0.84	310	618	96.7	0.75
	1310	**1NA1 508-6AR40-0A.0**	994	96.7	0.86	220	12585	2.80	76.4	2100	975	895	96.9	0.85	660	797	96.8	0.82	325	618	96.4	0.71
	1400	**1NA1 508-6AR40-0C.0**	996	96.9	0.87	230	13423	2.40	96.8	2100	1040	896	97.1	0.86	705	797	97.1	0.84	345	618	96.7	0.75
	1770	**1NA1 564-6AR40-0C.0**	995	97.2	0.87	290	16987	2.40	136.8	2000	1315	896	97.3	0.87	895	797	97.4	0.86	435	618	97.1	0.78
	1890	**1NA1 566-6AR40-0C.0**	995	97.2	0.87	310	18139	2.60	151.9	2000	1405	896	97.4	0.87	955	797	97.4	0.85	465	618	97.2	0.77
	2000	**1NA1 568-6AR40-0C.0**	996	97.3	0.87	330	19175	2.90	167.0	2000	1485	897	97.4	0.86	1010	798	97.4	0.84	495	618	97.0	0.74
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - Square-law torque drive																							
	600	**1NA1 454-8AR40-0A.0**	744	95.8	0.78	112	7701	2.20	32.0	2200	445	670	95.9	0.76	305	596	95.8	0.72	150	463	95.1	0.61
	610	**1NA1 454-8AR40-0C.0**	744	95.9	0.80	110	7829	2.20	41.1	2200	455	670	95.9	0.78	310	597	95.8	0.74	150	463	95.0	0.62
	650	**1NA1 456-8AR40-0A.0**	744	95.9	0.78	120	8343	2.40	37.1	2200	485	670	96.0	0.77	330	597	95.9	0.72	160	463	95.1	0.61
	650	**1NA1 456-8AR40-0C.0**	745	96.0	0.80	118	8332	2.40	47.5	2200	485	671	96.0	0.78	330	597	95.8	0.73	160	463	95.0	0.61
	710	**1NA1 458-8AR40-0A.0**	745	96.1	0.79	130	9101	2.40	43.9	2200	530	671	96.1	0.77	360	597	96.0	0.73	175	463	95.3	0.60
	710	**1NA1 458-8AR40-0C.0**	745	96.1	0.80	128	9101	2.50	55.9	2200	530	671	96.1	0.77	360	597	95.9	0.73	175	463	95.1	0.60
	760	**1NA1 504-8AR40-0A.0**	745	95.9	0.80	138	9742	2.20	58.9	2100	565	671	96.0	0.79	385	597	96.0	0.75	190	463	95.3	0.65
	780	**1NA1 504-8AR40-0C.0**	745	95.9	0.84	134	9998	2.50	75.7	2100	580	671	95.8	0.82	395	597	95.8	0.78	195	463	95.1	0.67
	800	**1NA1 506-8AR40-0A.0**	746	96.0	0.80	144	10241	2.60	66.4	2100	595	672	95.9	0.78	405	597	95.9	0.72	200	463	95.0	0.60
	800	**1NA1 506-8AR40-0C.0**	746	95.8	0.83	140	10241	3.00	85.2	2100	595	672	95.8	0.80	405	598	95.7	0.74	195	464	94.7	0.61
	850	**1NA1 508-8AR40-0A.0**	746	96.0	0.80	154	10881	2.80	75.3	2100	635	672	96.0	0.77	430	598	95.9	0.71	210	464	94.9	0.59
	840	**1NA1 508-8AR40-0C.0**	747	95.9	0.82	148	10738	3.20	96.4	2100	625	672	95.8	0.79	425	598	95.6	0.73	205	464	94.5	0.59
	1120	**1NA1 564-8AR40-0C.0**	746	96.7	0.84	192	14337	2.70	136.4	2000	835	672	96.8	0.82	565	598	96.7	0.78	275	464	96.3	0.66
	1310	**1NA1 566-8AR40-0C.0**	746	96.8	0.84	225	16769	2.70	151.8	2000	975	672	96.9	0.82	660	598	96.8	0.78	325	464	96.3	0.66
	1350	**1NA1 568-8AR40-0C.0**	746	96.9	0.84	230	17281	2.80	167.1	2000	1005	672	96.9	0.82	680	598	96.9	0.78	335	464	96.5	0.66

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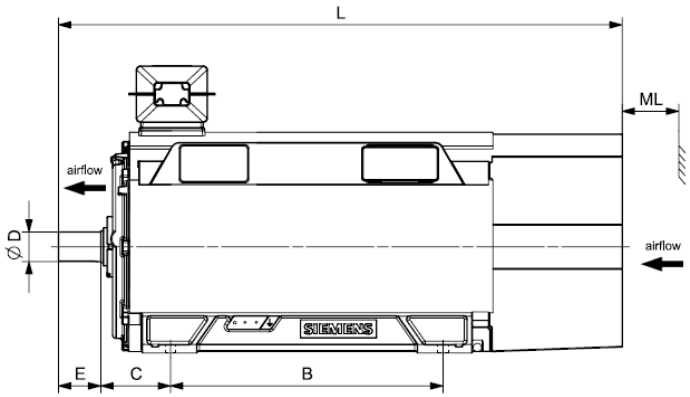

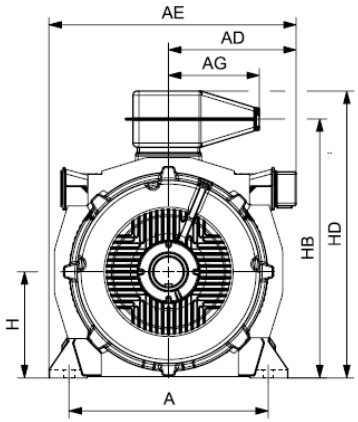

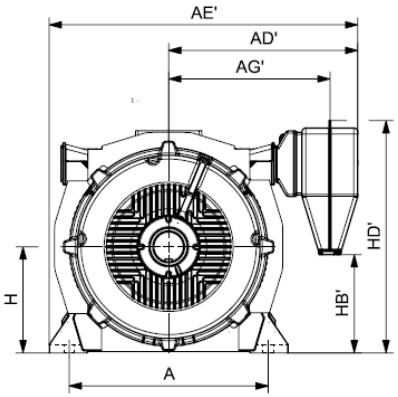

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2AR40-0A.0	4600	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 454-2AR40-0C.0	4800	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 456-2AR40-0A.0	4900	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 456-2AR40-0C.0	5000	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 458-2AR40-0A.0	5100	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 458-2AR40-0C.0	5200	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 504-2AR40-0AC0	6100	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 504-2AR40-0C.0	6200	950	610	894	1175	1459	489	763	1320	280	110	165	500	1221	403	1352	1095	2472	200
1NA1 506-2AR40-0AC0	6500	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 506-2AR40-0C.0	6700	950	610	894	1175	1459	489	763	1320	280	110	165	500	1221	403	1352	1095	2472	200
1NA1 508-2AR40-0AC0	6800	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 508-2AR40-0C.0	7000	950	610	894	1175	1459	489	763	1320	280	110	165	500	1221	403	1352	1095	2472	200
1NA1 566-2AR40-0C.0	9000	1060	670	954	1305	1589	489	823	1400	290	120	165	560	1348	509	1479	1201	2642	225
1NA1 568-2AR40-0C.0	9400	1060	670	954	1305	1589	489	823	1400	290	120	165	560	1348	509	1479	1201	2642	225
4-pole																			
1NA1 454-4AR40-0A.0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-4AR40-0C.0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-4AR40-0A.0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-4AR40-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-4AR40-0A.0	5300	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-4AR40-0C.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 504-4AR40-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200

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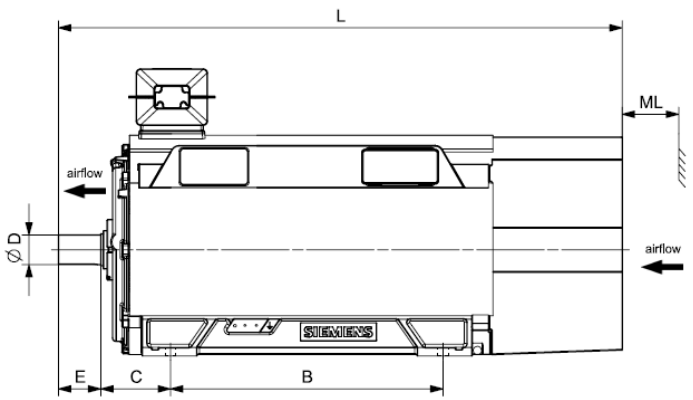

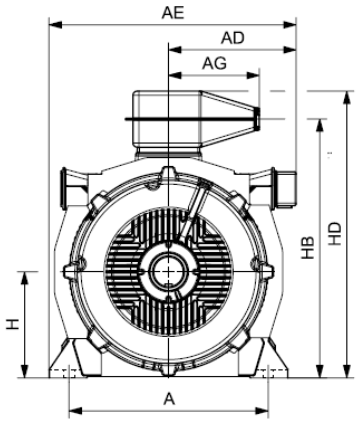

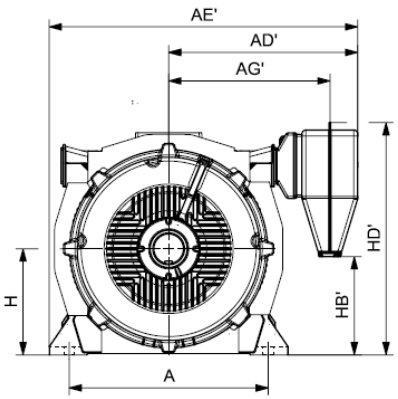

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 504-4AR40-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-4AR40-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-4AR40-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-4AR40-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-4AR40-0C.0	7400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 562-4AR40-0C.0	8300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 562-4AR40-0A.0	8000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 564-4AR40-0A.0	8400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 564-4AR40-0C.0	8700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-4AR40-0A.0	8900	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-4AR40-0C.0	9300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-4AR40-0A.0	9300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-4AR40-0C.0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
6-pole																			
1NA1 454-6AR40-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-6AR40-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-6AR40-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-6AR40-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-6AR40-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-6AR40-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 502-6AR40-0A.0	5900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 502-6AR40-0C.0	6100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-6AR40-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200

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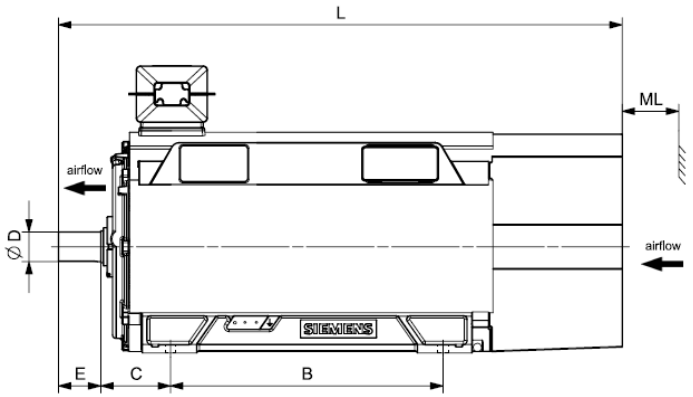

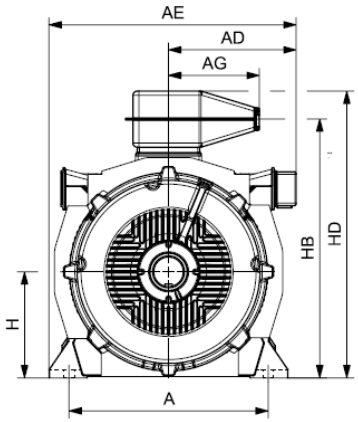

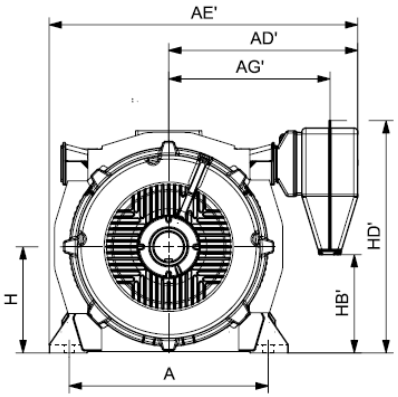

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 504-6AR40-0C.0	6600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-6AR40-0A.0	6800	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-6AR40-0C.0	7000	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-6AR40-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-6AR40-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 564-6AR40-0C.0	9200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-6AR40-0C.0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-6AR40-0C.0	10300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
8-pole																			
1NA1 454-8AR40-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-8AR40-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-8AR40-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-8AR40-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-8AR40-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-8AR40-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 504-8AR40-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-8AR40-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-8AR40-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-8AR40-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-8AR40-0A.0	7100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-8AR40-0C.0	7400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 564-8AR40-0C.0	9100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-8AR40-0C.0	9600	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225

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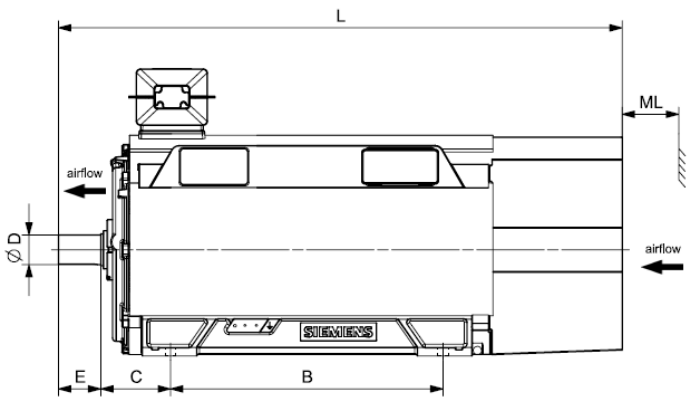
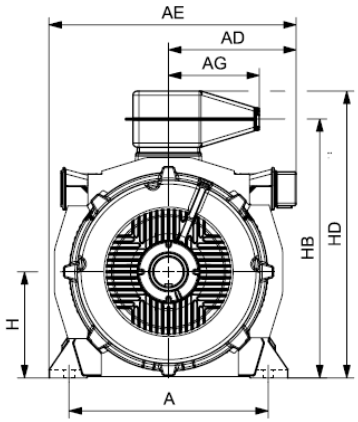
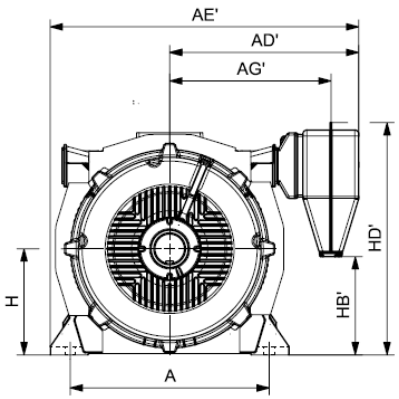
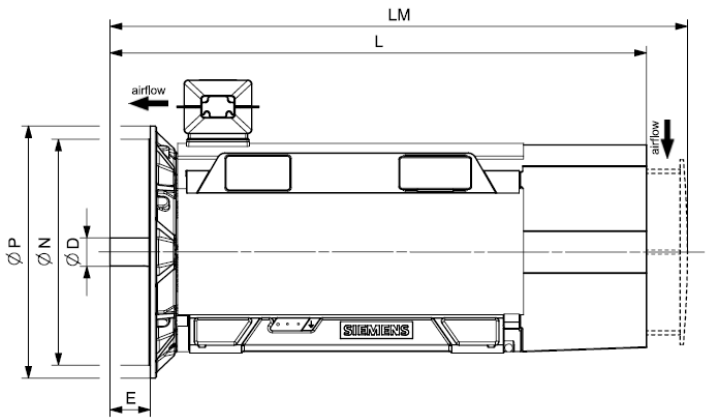
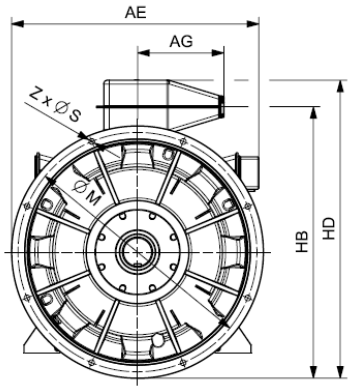






Motor type	Weight	Dimensions																		
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																				
1NA1 568-8AR40-0C.0	10200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225





Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 454-4AR44-0AA0	4900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-4AR44-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AR44-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AR44-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AR44-0AA0	5500	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AR44-0CA0	5700	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 504-4AR44-0AA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-4AR44-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AR44-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AR44-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AR44-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AR44-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 562-4AR44-0CA0	8600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 562-4AR44-0AA0	8200	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AR44-0AA0	8600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AR44-0CA0	9000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AR44-0AA0	9100	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AR44-0CA0	9500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AR44-0AA0	9600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AR44-0CA0	10000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 454-6AR44-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8

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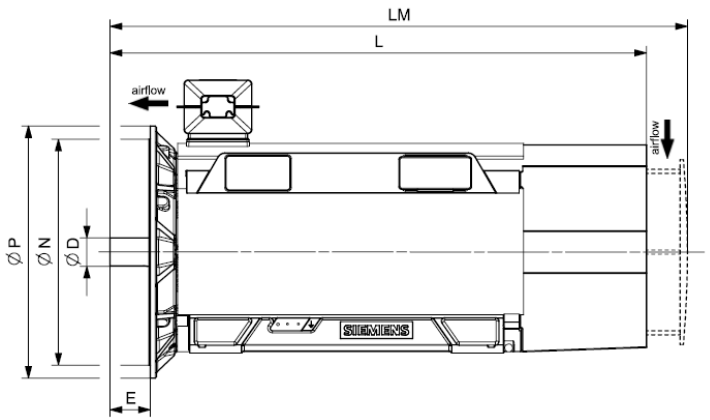

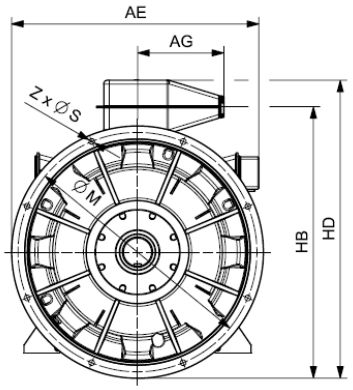

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 454-6AR44-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AR44-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AR44-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AR44-0AA0	5700	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AR44-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 502-6AR44-0AA0	6100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 502-6AR44-0CA0	6300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AR44-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AR44-0CA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AR44-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AR44-0CA0	7200	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AR44-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AR44-0CA0	7700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-6AR44-0CA0	9400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-6AR44-0CA0	9900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-6AR44-0CA0	10500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 454-8AR44-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-8AR44-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AR44-0AA0	5100	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AR44-0CA0	5300	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AR44-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AR44-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8

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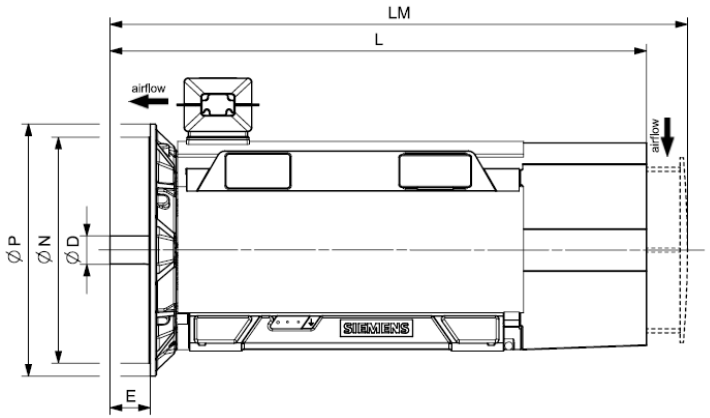

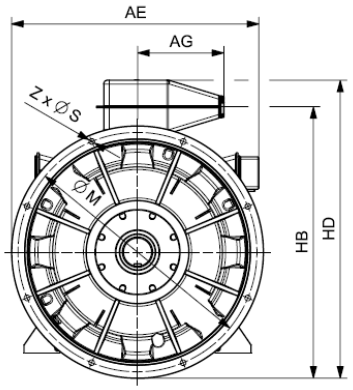

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-8AR44-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-8AR44-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AR44-0AA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AR44-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AR44-0AA0	7300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AR44-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-8AR44-0CA0	9300	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-8AR44-0CA0	9900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-8AR44-0CA0	10400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - Square-law torque drive																							
	1100	**1NA1 454-2AR30-0C.0**	3584	96.7	0.90	176	2931	2.50	18.7	3600	835	3287	96.7	0.89	555	2870	96.7	0.87	275	2274	96.2	0.81
	1250	**1NA1 456-2AR30-0C.0**	3585	96.9	0.90	198	3330	2.70	20.6	3600	945	3288	96.9	0.90	630	2871	96.8	0.87	315	2274	96.3	0.81
	1400	**1NA1 458-2AR30-0C.0**	3586	97.0	0.91	220	3728	2.90	22.3	3600	1060	3289	97.0	0.89	705	2872	96.8	0.86	355	2275	96.3	0.80
	1500	**1NA1 504-2AR30-0CC0**	3588	96.7	0.90	240	3992	2.90	28.9	3600	1135	3290	96.7	0.90	755	2873	96.6	0.87	380	2275	96.0	0.81
	1670	**1NA1 506-2AR30-0CC0**	3588	96.9	0.91	265	4445	3.00	32.6	3600	1265	3291	96.8	0.90	845	2873	96.7	0.88	420	2276	96.1	0.82
	1750	**1NA1 508-2AR30-0CC0**	3590	96.9	0.91	275	4655	3.60	35.6	3600	1325	3292	96.8	0.90	885	2874	96.7	0.86	440	2276	96.0	0.79
	2160	**1NA1 566-2AR30-0CC0**	3590	97.1	0.91	340	5746	2.70	54.6	3600	1635	3292	97.0	0.91	1090	2874	97.0	0.90	545	2276	96.6	0.85
	2400	**1NA1 568-2AR30-0CC0**	3591	97.2	0.92	370	6382	2.80	59.4	3600	1820	3292	97.2	0.91	1210	2874	97.1	0.90	605	2276	96.7	0.85
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - Square-law torque drive																							
	1150	**1NA1 454-4AR30-0A.0**	1793	96.7	0.84	196	6125	3.20	21.6	2400	870	1644	96.6	0.81	580	1436	96.4	0.76	290	1137	95.7	0.63
	1150	**1NA1 454-4AR30-0C.0**	1793	96.7	0.84	196	6125	2.70	27.6	2400	870	1644	96.6	0.81	580	1436	96.5	0.77	290	1137	95.8	0.65
	1200	**1NA1 456-4AR30-0A.0**	1794	96.7	0.84	205	6387	3.60	24.8	2400	910	1645	96.6	0.81	605	1436	96.4	0.75	300	1138	95.5	0.62
	1210	**1NA1 456-4AR30-0C.0**	1794	96.7	0.84	205	6441	3.00	31.8	2400	915	1645	96.7	0.81	610	1436	96.5	0.76	305	1138	95.7	0.64
	1300	**1NA1 458-4AR30-0A.0**	1794	96.8	0.85	220	6920	3.90	27.3	2400	985	1645	96.7	0.81	655	1436	96.5	0.75	325	1138	95.6	0.62
	1310	**1NA1 458-4AR30-0C.0**	1794	96.8	0.84	225	6973	3.20	34.8	2400	990	1645	96.8	0.82	660	1436	96.5	0.76	330	1138	95.8	0.64
	1510	**1NA1 504-4AR30-0A.0**	1792	96.4	0.88	245	8047	2.70	32.6	2200	1145	1643	96.4	0.87	765	1435	96.4	0.83	380	1137	95.9	0.75
	1510	**1NA1 504-4AR30-0C.0**	1792	96.5	0.86	255	8047	2.20	42.5	2200	1145	1644	96.6	0.86	765	1435	96.5	0.83	380	1137	96.1	0.76
	1660	**1NA1 506-4AR30-0A.0**	1793	96.6	0.88	270	8841	3.20	37.1	2200	1260	1644	96.5	0.86	840	1436	96.4	0.82	420	1137	95.7	0.72
	1670	**1NA1 506-4AR30-0C.0**	1793	96.7	0.87	275	8894	2.50	48.0	2200	1265	1645	96.7	0.86	845	1436	96.6	0.82	420	1138	96.0	0.74
	1750	**1NA1 508-4AR30-0A.0**	1793	96.7	0.89	280	9320	3.20	42.5	2200	1325	1644	96.7	0.87	885	1436	96.6	0.83	440	1137	96.0	0.74
	1750	**1NA1 508-4AR30-0C.0**	1794	96.8	0.87	290	9315	2.50	54.7	2200	1325	1645	96.8	0.86	885	1436	96.7	0.83	440	1138	96.2	0.74
	2050	**1NA1 562-4AR30-0C.0**	1793	96.7	0.86	340	10918	2.10	72.5	2000	1555	1644	96.7	0.86	1035	1436	96.6	0.83	515	1138	96.2	0.76
	2060	**1NA1 562-4AR30-0A.0**	1793	96.6	0.87	340	10971	2.40	54.5	2000	1560	1645	96.5	0.86	1040	1436	96.4	0.83	520	1138	95.9	0.75
	2250	**1NA1 564-4AR30-0A.0**	1794	96.7	0.88	365	11977	2.60	60.0	2000	1705	1645	96.7	0.87	1135	1436	96.5	0.83	565	1138	96.0	0.75
	2250	**1NA1 564-4AR30-0C.0**	1793	96.9	0.87	370	11983	2.20	79.4	2000	1705	1645	96.8	0.86	1135	1436	96.7	0.83	565	1138	96.2	0.76
	2420	**1NA1 566-4AR30-0A.0**	1794	96.8	0.88	395	12881	2.80	66.7	2000	1835	1645	96.7	0.87	1220	1437	96.5	0.83	610	1138	95.9	0.74
	2450	**1NA1 566-4AR30-0C.0**	1794	97.0	0.88	400	13041	2.40	88.1	2000	1855	1645	96.9	0.87	1235	1436	96.8	0.83	615	1138	96.2	0.75
	2650	**1NA1 568-4AR30-0A.0**	1795	97.0	0.89	425	14098	3.10	73.5	2000	2005	1646	96.8	0.87	1335	1437	96.5	0.82	665	1138	95.7	0.72
	2670	**1NA1 568-4AR30-0C.0**	1795	97.1	0.88	435	14204	2.70	96.7	2000	2025	1646	97.0	0.86	1350	1437	96.7	0.83	670	1138	96.0	0.73
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - Square-law torque drive																							
	800	**1NA1 454-6AR30-0A.0**	1194	96.3	0.81	142	6398	2.20	31.8	2200	605	1095	96.3	0.80	405	956	96.2	0.76	200	758	95.5	0.65
	850	**1NA1 454-6AR30-0C.0**	1194	96.5	0.84	146	6798	2.30	41.0	2200	645	1095	96.4	0.82	430	956	96.4	0.79	215	758	95.7	0.68
	900	**1NA1 456-6AR30-0A.0**	1194	96.5	0.81	160	7198	2.40	36.9	2200	680	1095	96.4	0.80	455	957	96.3	0.76	225	758	95.5	0.65
	950	**1NA1 456-6AR30-0C.0**	1194	96.6	0.84	162	7598	2.50	47.3	2200	720	1095	96.5	0.82	480	956	96.4	0.78	240	758	95.7	0.67

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SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
	1000	**1NA1 458-6AR30-0A.0**	1195	96.5	0.81	178	7991	2.80	43.6	2200	760	1096	96.4	0.78	505	957	96.2	0.73	250	758	95.3	0.60
	1000	**1NA1 458-6AR30-0C.0**	1195	96.6	0.83	174	7991	3.00	55.8	2200	755	1096	96.4	0.80	505	957	96.2	0.75	250	758	95.3	0.61
	1150	**1NA1 502-6AR30-0A.0**	1193	96.5	0.83	200	9205	2.20	52.8	2100	870	1094	96.6	0.83	580	956	96.7	0.82	290	758	96.3	0.73
	1200	**1NA1 502-6AR30-0C.0**	1195	96.6	0.86	200	9589	2.10	67.6	2100	910	1096	96.8	0.86	605	957	96.8	0.84	305	758	96.4	0.76
	1250	**1NA1 504-6AR30-0A.0**	1194	96.6	0.85	210	9997	2.40	59.7	2100	950	1095	96.7	0.84	630	956	96.7	0.82	315	758	96.2	0.73
	1320	**1NA1 504-6AR30-0C.0**	1195	96.8	0.87	220	10548	2.20	76.2	2100	1000	1096	96.9	0.86	665	957	96.9	0.85	335	758	96.5	0.76
	1310	**1NA1 506-6AR30-0A.0**	1195	96.7	0.85	220	10468	2.80	67.4	2100	995	1096	96.7	0.84	660	957	96.7	0.81	330	758	96.1	0.70
	1400	**1NA1 506-6AR30-0C.0**	1196	96.8	0.87	230	11178	2.50	85.6	2100	1060	1096	96.9	0.86	705	957	96.8	0.83	355	758	96.4	0.73
	1450	**1NA1 508-6AR30-0A.0**	1195	96.8	0.86	240	11587	2.90	76.4	2100	1100	1096	96.8	0.84	730	957	96.7	0.81	365	758	96.1	0.70
	1520	**1NA1 508-6AR30-0C.0**	1196	96.9	0.87	250	12136	2.60	96.8	2100	1150	1097	97.0	0.86	765	958	96.9	0.83	385	758	96.4	0.73
	2000	**1NA1 564-6AR30-0C.0**	1195	97.2	0.88	325	15982	2.40	136.8	2000	1515	1096	97.3	0.88	1010	957	97.3	0.86	505	758	96.9	0.78
	2230	**1NA1 566-6AR30-0C.0**	1195	97.3	0.88	360	17820	2.40	151.9	2000	1690	1096	97.3	0.88	1125	957	97.3	0.87	560	758	96.9	0.79
	2330	**1NA1 568-6AR30-0C.0**	1196	97.3	0.87	380	18604	2.90	167.0	2000	1765	1097	97.3	0.87	1175	957	97.2	0.84	585	758	96.6	0.74
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - Square-law torque drive																							
	720	**1NA1 454-8AR30-0A.0**	893	96.0	0.78	134	7699	1.90	32.0	2200	545	820	96.0	0.77	365	716	96.0	0.75	180	568	95.4	0.64
	750	**1NA1 454-8AR30-0C.0**	893	96.0	0.81	134	8020	2.00	41.1	2200	570	820	96.1	0.80	380	716	96.0	0.76	190	568	95.4	0.66
	770	**1NA1 456-8AR30-0A.0**	894	96.1	0.79	140	8225	2.20	37.1	2200	585	820	96.1	0.77	390	716	96.0	0.74	195	568	95.2	0.62
	770	**1NA1 456-8AR30-0C.0**	895	96.1	0.80	140	8216	2.20	47.5	2200	585	821	96.1	0.79	390	717	95.9	0.74	195	568	95.1	0.62
	800	**1NA1 458-8AR30-0A.0**	895	96.2	0.77	150	8536	2.70	43.9	2200	605	821	96.1	0.75	405	717	95.8	0.69	200	568	94.7	0.56
	800	**1NA1 458-8AR30-0C.0**	896	96.1	0.78	148	8526	2.80	55.9	2200	605	822	96.0	0.75	405	717	95.6	0.70	200	568	94.5	0.56
	850	**1NA1 504-8AR30-0C.0**	896	95.8	0.84	146	9059	2.50	75.7	2100	645	821	95.6	0.82	430	717	95.6	0.77	215	568	94.6	0.66
	850	**1NA1 504-8AR30-0A.0**	896	95.9	0.80	154	9059	2.50	58.9	2100	645	821	95.8	0.78	430	717	95.8	0.72	215	568	94.8	0.60
	910	**1NA1 506-8AR30-0A.0**	895	96.0	0.81	162	9709	2.30	66.4	2100	690	821	95.9	0.79	460	717	95.9	0.75	230	568	95.0	0.64
	910	**1NA1 506-8AR30-0C.0**	896	95.8	0.84	156	9699	2.70	85.2	2100	690	822	95.7	0.82	460	717	95.6	0.77	230	568	94.6	0.65
	940	**1NA1 508-8AR30-0A.0**	895	96.1	0.82	166	10029	2.30	75.3	2100	710	821	96.0	0.80	475	717	96.0	0.76	235	568	95.1	0.65
	940	**1NA1 508-8AR30-0C.0**	896	96.0	0.84	162	10018	2.80	96.4	2100	710	822	95.8	0.82	475	718	95.7	0.77	235	569	94.7	0.66
	1250	**1NA1 564-8AR30-0C.0**	896	96.7	0.85	210	13322	2.40	136.4	2000	945	821	96.7	0.84	630	717	96.7	0.81	315	568	96.2	0.70
	1450	**1NA1 566-8AR30-0C.0**	896	96.8	0.84	245	15454	2.50	151.8	2000	1100	822	96.8	0.83	730	718	96.7	0.80	365	568	96.2	0.68
	1520	**1NA1 568-8AR30-0C.0**	896	96.8	0.84	260	16200	2.90	167.1	2000	1150	822	96.8	0.82	765	718	96.6	0.77	385	569	95.9	0.64

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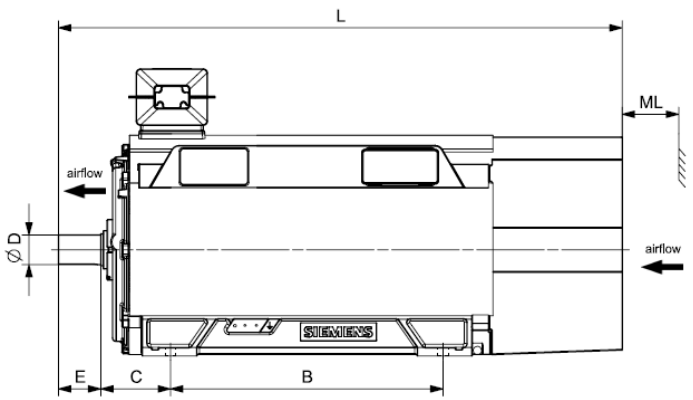

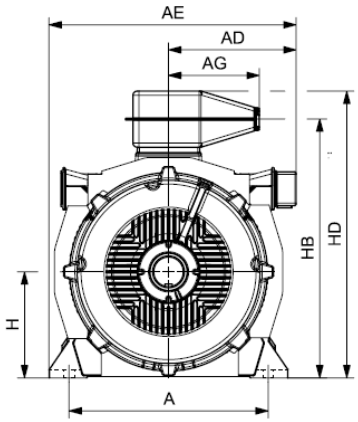

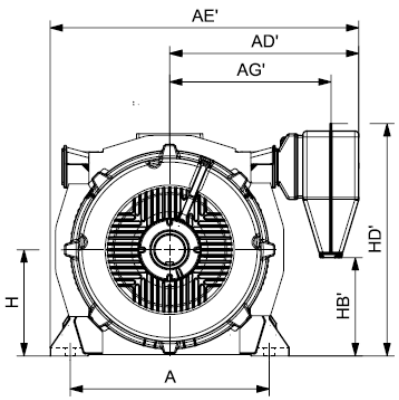

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2AR30-0C.0	4800	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 456-2AR30-0C.0	5000	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 458-2AR30-0C.0	5300	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 504-2AR30-0CC0	6200	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 506-2AR30-0CC0	6700	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 508-2AR30-0CC0	6900	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 566-2AR30-0CC0	8600	1060	670	954	1305	1589	489	823	1400	560	120	165	560	1348	509	1479	1201	2922	225
1NA1 568-2AR30-0CC0	9100	1060	670	954	1305	1589	489	823	1400	560	120	165	560	1348	509	1479	1201	2922	225
4-pole																			
1NA1 454-4AR30-0A.0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-4AR30-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-4AR30-0A.0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-4AR30-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-4AR30-0A.0	5300	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-4AR30-0C.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 504-4AR30-0A.0	6200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-4AR30-0C.0	6400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-4AR30-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-4AR30-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-4AR30-0A.0	7100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-4AR30-0C.0	7400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 562-4AR30-0C.0	8300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225

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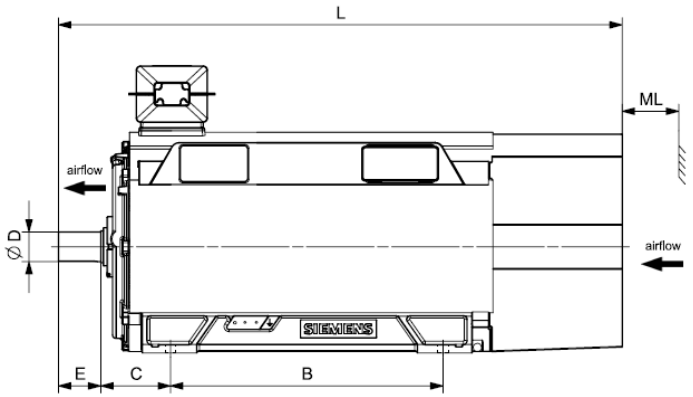

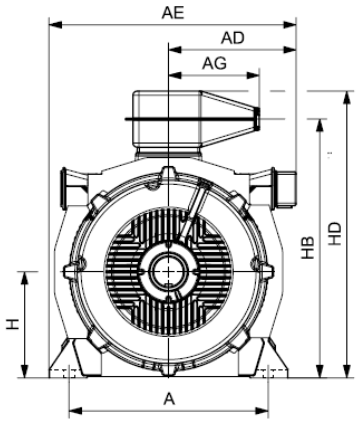

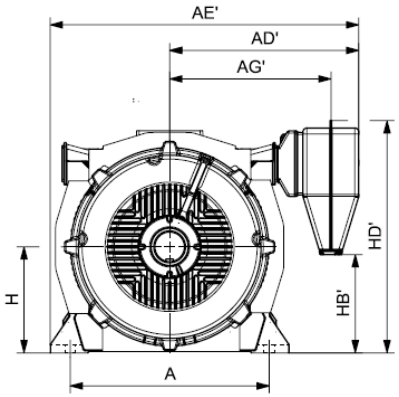

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 562-4AR30-0A.0	8000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 564-4AR30-0A.0	8400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 564-4AR30-0C.0	8700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-4AR30-0A.0	8900	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-4AR30-0C.0	9200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-4AR30-0A.0	9400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-4AR30-0C.0	9800	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
6-pole																			
1NA1 454-6AR30-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-6AR30-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-6AR30-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-6AR30-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-6AR30-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-6AR30-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 502-6AR30-0A.0	6000	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 502-6AR30-0C.0	6200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-6AR30-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-6AR30-0C.0	6600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-6AR30-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-6AR30-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-6AR30-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-6AR30-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 564-6AR30-0C.0	9100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225

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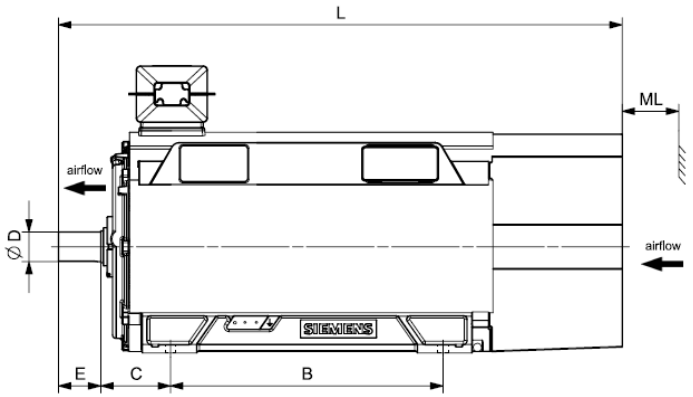

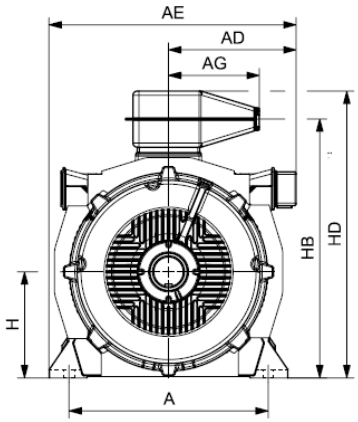

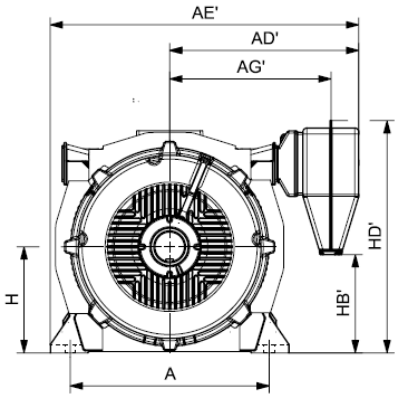

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 566-6AR30-0C.0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-6AR30-0C.0	10300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
8-pole																			
1NA1 454-8AR30-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-8AR30-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-8AR30-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-8AR30-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-8AR30-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-8AR30-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 504-8AR30-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-8AR30-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-8AR30-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-8AR30-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-8AR30-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-8AR30-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 564-8AR30-0C.0	9000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-8AR30-0C.0	9600	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-8AR30-0C.0	10200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225

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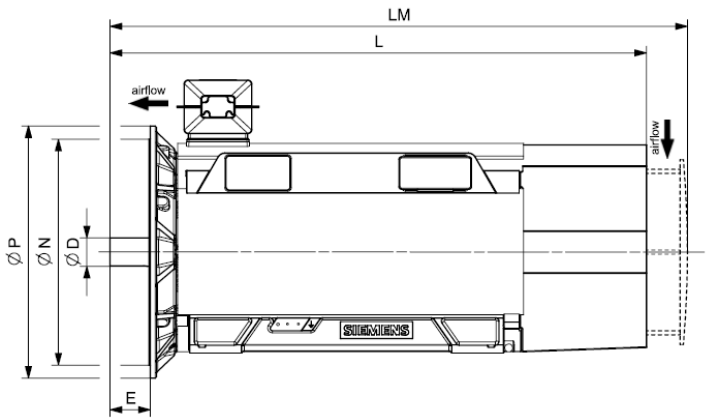

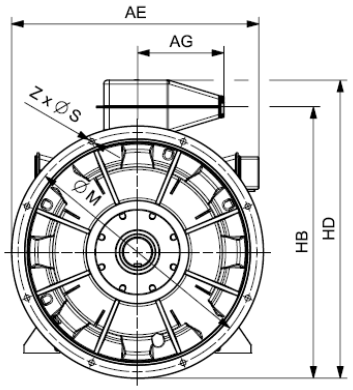

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 454-4AR34-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-4AR34-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AR34-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AR34-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AR34-0AA0	5500	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AR34-0CA0	5700	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 504-4AR34-0AA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-4AR34-0CA0	6600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AR34-0AA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AR34-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AR34-0AA0	7300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AR34-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 562-4AR34-0CA0	8500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 562-4AR34-0AA0	8200	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AR34-0AA0	8600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AR34-0CA0	8900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AR34-0AA0	9100	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AR34-0CA0	9400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AR34-0AA0	9600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AR34-0CA0	10000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 454-6AR34-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8

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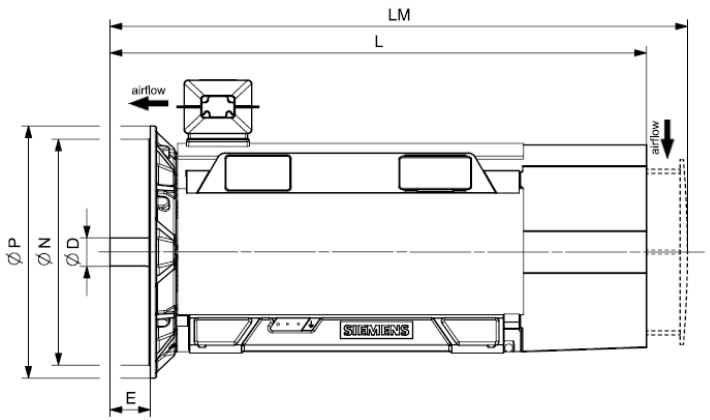

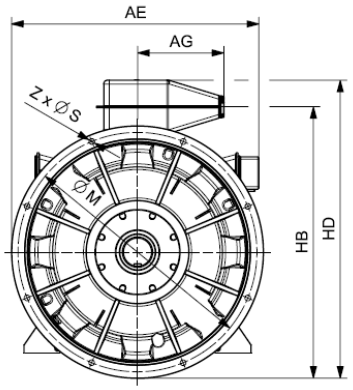

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 454-6AR34-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AR34-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AR34-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AR34-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AR34-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 502-6AR34-0AA0	6200	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 502-6AR34-0CA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AR34-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AR34-0CA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AR34-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AR34-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AR34-0AA0	7300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AR34-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-6AR34-0CA0	9300	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-6AR34-0CA0	9900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-6AR34-0CA0	10500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 454-8AR34-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-8AR34-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AR34-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AR34-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AR34-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AR34-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8

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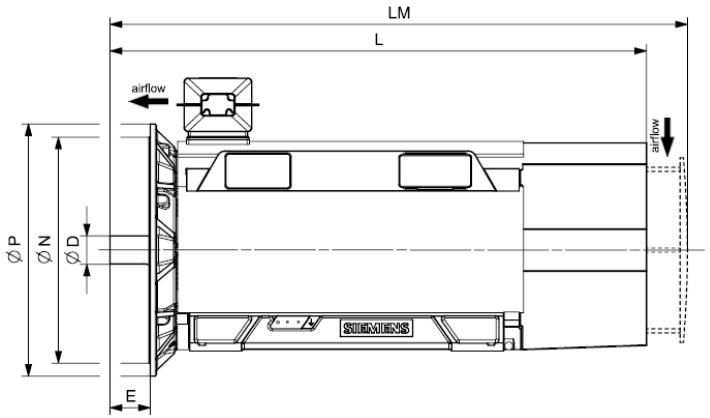

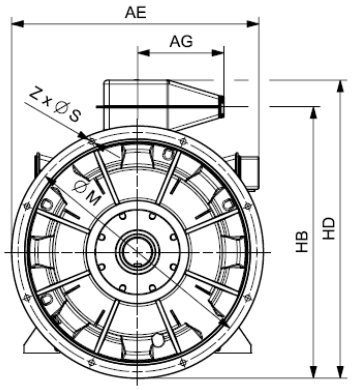

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-8AR34-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-8AR34-0AA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AR34-0AA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AR34-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AR34-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AR34-0CA0	7700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-8AR34-0CA0	9300	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-8AR34-0CA0	9800	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-8AR34-0CA0	10400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - Square-law torque drive																						
800	710	**1NA1 402-2WC00-0A.0**	2978	96.6	0.93	750	2565	3.20	10.0	3600	595	2683	96.7	0.92	405	2387	96.7	0.89	200	1852	96.3	0.83
800	710	**1NA1 402-2WC00-0C.0**	2979	96.5	0.93	750	2564	3.20	12.3	3600	595	2683	96.5	0.92	405	2387	96.5	0.88	195	1852	96.0	0.82
850	750	**1NA1 404-2WC00-0A.0**	2978	96.6	0.94	780	2726	3.40	11.0	3600	635	2683	96.7	0.93	430	2387	96.7	0.90	210	1852	96.4	0.85
830	730	**1NA1 404-2WC00-0C.0**	2979	96.5	0.94	770	2661	3.40	13.5	3600	615	2684	96.5	0.93	420	2388	96.5	0.90	205	1852	96.0	0.84
900	790	**1NA1 406-2WC00-0A.0**	2981	96.8	0.94	830	2883	3.70	12.2	3600	670	2685	96.9	0.93	455	2389	96.9	0.89	220	1853	96.4	0.83
880	780	**1NA1 406-2WC00-0C.0**	2982	96.8	0.94	810	2818	3.70	14.9	3600	655	2686	96.8	0.92	445	2389	96.7	0.89	215	1853	96.1	0.82
920	810	**1NA1 408-2WC00-0A.0**	2982	96.9	0.95	840	2946	4.60	13.0	3600	685	2686	96.8	0.93	465	2390	96.7	0.89	225	1853	96.1	0.82
900	790	**1NA1 408-2WC00-0C.0**	2984	96.8	0.94	830	2880	4.50	15.9	3600	670	2687	96.7	0.92	455	2391	96.5	0.88	220	1854	95.8	0.81
1100	970	**1NA1 454-2WC00-0A.0**	2982	97.0	0.94	1000	3523	2.50	14.1	3600	820	2686	97.1	0.93	555	2389	97.3	0.91	270	1853	97.1	0.88
1050	930	**1NA1 454-2WC00-0C.0**	2983	96.9	0.94	960	3361	2.60	19.1	3600	780	2687	97.0	0.93	530	2390	97.1	0.91	260	1854	96.9	0.88
1200	1060	**1NA1 456-2WC00-0A.0**	2985	97.3	0.94	1100	3839	3.20	15.6	3600	890	2688	97.3	0.93	605	2391	97.4	0.91	295	1854	97.2	0.86
1150	1010	**1NA1 456-2WC00-0C.0**	2986	97.2	0.94	1060	3678	3.20	21.0	3600	855	2689	97.2	0.93	580	2392	97.2	0.91	285	1855	96.8	0.86
1230	1080	**1NA1 458-2WC00-0A.0**	2985	97.3	0.95	1120	3935	3.20	16.8	3600	915	2688	97.3	0.93	620	2391	97.4	0.91	305	1855	97.1	0.87
1200	1060	**1NA1 458-2WC00-0C.0**	2986	97.2	0.95	1080	3838	3.20	22.6	3600	890	2689	97.2	0.94	605	2392	97.2	0.91	295	1855	96.8	0.86
1600	1410	**1NA1 504-2WC00-0AJ0**	2985	97.2	0.90	1540	5119	3.00	22.6	3600	1190	2689	97.2	0.90	810	2391	97.2	0.88	395	1855	96.6	0.83
1600	1410	**1NA1 504-2WC00-0C.0**	2986	97.1	0.91	1520	5117	3.00	30.1	3000	1190	2689	97.0	0.90	810	2392	97.0	0.88	395	1855	96.2	0.83
1820	1600	**1NA1 506-2WC00-0AJ0**	2984	97.2	0.91	1720	5824	3.00	25.7	3600	1355	2688	97.2	0.91	920	2391	97.2	0.89	450	1854	96.7	0.86
1850	1630	**1NA1 506-2WC00-0C.0**	2985	97.1	0.91	1760	5918	2.80	33.7	3000	1375	2688	97.1	0.91	935	2391	97.1	0.90	455	1854	96.4	0.86
2200	1940	**1NA1 508-2WC00-0AJ0**	2986	97.4	0.91	2100	7036	3.40	28.1	3600	1635	2689	97.4	0.91	1110	2392	97.3	0.89	545	1855	96.6	0.84
2200	1940	**1NA1 508-2WC00-0C.0**	2987	97.4	0.91	2100	7033	3.20	36.7	3000	1635	2690	97.2	0.91	1110	2393	97.1	0.89	540	1855	96.3	0.83
2350	2070	**1NA1 566-2WC00-0C.0**	2988	97.2	0.91	2200	7510	2.50	55.3	3000	1750	2691	97.2	0.91	1185	2393	97.1	0.91	580	1856	96.5	0.87
2600	2290	**1NA1 568-2WC00-0C.0**	2990	97.4	0.92	2450	8304	3.10	60.0	3000	1935	2693	97.2	0.91	1310	2394	97.1	0.89	640	1857	96.3	0.84
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - Square-law torque drive																						
280	250	**1NA1 311-4WC00-0AG0**	1486	95.4	0.87	280	1799	3.60	3.6	3300	210	1339	95.2	0.84	140	1192	94.9	0.78	70	925	93.3	0.67
370	330	**1NA1 313-4WC00-0AG0**	1486	95.7	0.88	365	2378	3.90	4.5	3300	275	1339	95.3	0.84	185	1192	95.0	0.78	90	925	93.2	0.67
430	380	**1NA1 315-4WC00-0AG0**	1487	95.8	0.88	425	2761	4.10	5.1	3300	320	1340	95.3	0.84	215	1192	94.9	0.78	105	925	93.0	0.66
500	440	**1NA1 317-4WC00-0AG0**	1488	95.9	0.87	500	3209	4.60	5.8	3300	370	1341	95.2	0.82	250	1193	94.8	0.76	125	926	92.5	0.63
600	530	**1NA1 351-4WC00-0AG0**	1489	96.1	0.89	580	3848	3.40	7.9	2400	445	1341	95.6	0.86	305	1193	95.4	0.82	150	926	93.8	0.72
640	570	**1NA1 353-4WC00-0AG0**	1489	96.2	0.90	620	4104	3.60	8.6	2400	475	1342	95.7	0.86	325	1194	95.4	0.82	160	926	93.7	0.72
700	620	**1NA1 355-4WC00-0AG0**	1489	96.2	0.90	680	4489	3.70	9.5	2400	520	1342	95.7	0.87	355	1194	95.4	0.82	175	926	93.6	0.72
820	720	**1NA1 357-4WC00-0AG0**	1489	96.3	0.91	790	5259	3.60	10.8	2400	610	1341	95.8	0.88	415	1194	95.5	0.84	200	926	93.9	0.74
970	860	**1NA1 404-4WC00-0A.0**	1489	96.4	0.90	940	6221	2.80	15.6	2600	720	1342	96.2	0.88	490	1194	96.1	0.85	240	926	95.1	0.77
960	850	**1NA1 404-4WC00-0C.0**	1487	96.4	0.89	940	6165	2.50	19.8	2600	715	1340	96.3	0.88	485	1193	96.4	0.86	235	926	95.7	0.78
1070	940	**1NA1 406-4WC00-0A.0**	1490	96.5	0.90	1040	6858	3.00	17.4	2600	795	1342	96.3	0.89	540	1194	96.2	0.85	265	926	95.1	0.77

SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																						
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1060	930	**1NA1 406-4WC00-0C.0**	1488	96.5	0.90	1020	6803	2.70	22.0	2600	790	1341	96.4	0.88	535	1193	96.5	0.86	260	926	95.7	0.78
1200	1060	**1NA1 408-4WC00-0A.0**	1490	96.7	0.91	1140	7691	3.20	19.7	2600	895	1342	96.3	0.89	605	1194	96.2	0.85	295	926	95.0	0.77
1170	1030	**1NA1 408-4WC00-0C.0**	1489	96.7	0.90	1120	7503	2.80	24.9	2600	870	1342	96.5	0.89	590	1194	96.5	0.86	290	926	95.6	0.77
1350	1190	**1NA1 454-4WC00-0A.0**	1489	96.8	0.90	1300	8658	2.50	26.4	2400	1005	1341	96.7	0.89	680	1194	96.7	0.86	335	926	96.2	0.81
1350	1190	**1NA1 454-4WC00-0C.0**	1489	96.7	0.89	1320	8658	2.20	33.9	2400	1005	1341	96.7	0.88	680	1194	96.8	0.86	335	926	96.3	0.80
1500	1320	**1NA1 456-4WC00-0A.0**	1489	96.9	0.91	1420	9620	2.60	30.4	2400	1115	1342	96.8	0.90	760	1194	96.8	0.87	370	926	96.2	0.81
1500	1320	**1NA1 456-4WC00-0C.0**	1489	96.9	0.90	1440	9620	2.30	39.0	2400	1115	1342	96.9	0.89	760	1194	96.8	0.86	370	926	96.3	0.81
1620	1430	**1NA1 458-4WC00-0C.0**	1490	97.1	0.90	1560	10382	2.50	42.8	2400	1205	1343	97.0	0.88	820	1195	97.0	0.86	400	927	96.4	0.79
1650	1450	**1NA1 458-4WC00-0A.0**	1490	97.0	0.91	1560	10575	2.70	33.5	2400	1230	1342	96.9	0.89	835	1194	96.9	0.86	405	926	96.3	0.80
1710	1510	**1NA1 504-4WC00-0A.0**	1489	96.6	0.88	1680	10967	2.40	32.5	2200	1275	1342	96.6	0.87	865	1194	96.6	0.85	420	926	95.9	0.79
1700	1500	**1NA1 504-4WC00-0C.0**	1489	96.6	0.85	1740	10902	1.90	42.4	2200	1265	1342	96.7	0.86	860	1194	96.8	0.85	420	926	96.2	0.79
1815	1600	**1NA1 506-4WC00-0A.0**	1489	96.7	0.89	1760	11640	2.60	37.1	2200	1350	1342	96.6	0.89	915	1194	96.6	0.86	445	926	95.8	0.80
1800	1590	**1NA1 506-4WC00-0C.0**	1490	96.7	0.87	1800	11536	2.00	48.0	2200	1340	1342	96.7	0.88	910	1194	96.8	0.86	445	926	96.1	0.81
2160	1910	**1NA1 508-4WC00-0A.0**	1490	96.9	0.89	2100	13843	2.80	42.4	2200	1610	1343	96.8	0.88	1090	1195	96.7	0.85	535	927	95.7	0.78
2160	1900	**1NA1 508-4WC00-0C.0**	1491	97.0	0.87	2150	13834	2.20	54.6	2200	1610	1343	96.9	0.87	1090	1195	96.9	0.85	535	927	96.1	0.79
2350	2070	**1NA1 564-4WC00-0A.0**	1491	97.1	0.88	2300	15051	2.20	59.9	2000	1750	1343	97.0	0.88	1185	1195	97.0	0.86	580	927	96.4	0.82
2320	2050	**1NA1 564-4WC00-0C.0**	1491	97.1	0.87	2300	14859	1.90	79.4	2000	1725	1343	97.1	0.88	1170	1195	97.1	0.86	575	927	96.6	0.82
2415	2130	**1NA1 566-4WC00-0A.0**	1491	97.1	0.89	2350	15467	2.20	66.7	2000	1795	1343	97.0	0.89	1220	1195	97.0	0.87	595	927	96.5	0.83
2400	2120	**1NA1 566-4WC00-0C.0**	1491	97.1	0.88	2350	15371	2.00	88.0	2000	1785	1343	97.1	0.89	1215	1195	97.1	0.87	595	927	96.6	0.83
2660	2340	**1NA1 568-4WC00-0A.0**	1492	97.2	0.90	2550	17025	2.60	73.4	2000	1980	1344	97.1	0.89	1345	1195	97.1	0.87	655	927	96.4	0.81
2655	2340	**1NA1 568-4WC00-0C.0**	1492	97.3	0.89	2550	16993	2.20	96.7	2000	1975	1344	97.2	0.89	1340	1195	97.2	0.87	655	927	96.6	0.82
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - Square-law torque drive																						
240	210	**1NA1 311-6WC00-0AG0**	992	95.3	0.84	250	2310	2.70	5.8	3100	180	894	94.9	0.80	120	795	94.6	0.75	60	617	92.7	0.64
300	270	**1NA1 313-6WC00-0AG0**	993	95.5	0.84	310	2885	3.00	7.0	3100	225	894	94.9	0.79	150	796	94.5	0.74	75	617	92.3	0.62
360	320	**1NA1 315-6WC00-0AG0**	993	95.6	0.84	375	3462	3.10	8.1	3100	270	895	94.9	0.79	180	796	94.5	0.73	90	617	92.1	0.60
410	360	**1NA1 317-6WC00-0AG0**	992	95.6	0.86	420	3947	2.80	8.8	3100	305	894	95.1	0.81	205	796	94.8	0.76	100	617	92.9	0.65
550	490	**1NA1 351-6WC00-0AG0**	992	95.8	0.86	560	5294	2.30	14.0	2000	410	894	95.7	0.84	280	796	95.6	0.81	135	617	94.5	0.73
620	550	**1NA1 353-6WC00-0AG0**	992	95.8	0.86	630	5968	2.30	15.4	2000	460	894	95.8	0.84	315	796	95.7	0.82	155	617	94.5	0.73
700	620	**1NA1 355-6WC00-0AG0**	992	95.9	0.87	700	6738	2.40	17.2	2000	520	894	95.8	0.85	355	796	95.8	0.82	175	617	94.6	0.73
790	700	**1NA1 357-6WC00-0AG0**	993	96.0	0.87	790	7597	2.50	19.3	2000	590	895	95.9	0.84	400	796	95.7	0.81	195	617	94.4	0.72
920	810	**1NA1 404-6WC00-0AG0**	992	95.9	0.88	910	8856	2.30	25.8	2400	685	894	95.8	0.87	465	796	95.7	0.85	225	617	94.5	0.79
910	800	**1NA1 404-6WC00-0CG0**	991	95.8	0.87	910	8769	2.00	33.2	2400	680	893	95.9	0.86	460	795	96.0	0.85	225	617	95.4	0.80
1050	930	**1NA1 406-6WC00-0AG0**	992	96.0	0.89	1020	10108	2.40	29.6	2400	780	894	95.9	0.88	530	796	95.8	0.86	260	617	94.6	0.80
1020	900	**1NA1 406-6WC00-0CG0**	991	96.0	0.88	1020	9829	2.10	38.0	2400	760	893	96.1	0.87	515	795	96.1	0.86	250	617	95.4	0.80
1150	1010	**1NA1 408-6WC00-0AG0**	992	96.1	0.89	1120	11070	2.80	33.5	2400	855	894	95.9	0.88	580	796	95.7	0.85	285	617	94.3	0.77

SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																						
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1150	1010	**1NA1 408-6WC00-0CG0**	992	96.2	0.88	1140	11070	2.30	41.9	2400	855	894	96.2	0.87	580	796	96.2	0.85	285	617	95.3	0.78
1200	1060	**1NA1 454-6WC00-0A.0**	991	96.1	0.86	1220	11563	2.20	39.5	2200	895	893	96.0	0.85	605	795	96.1	0.84	295	617	95.3	0.77
1200	1060	**1NA1 454-6WC00-0C.0**	990	96.1	0.85	1220	11575	1.90	49.1	2200	895	892	96.1	0.85	605	794	96.3	0.84	295	617	95.8	0.79
1360	1200	**1NA1 456-6WC00-0A.0**	992	96.4	0.87	1360	13092	2.60	45.8	2200	1015	894	96.1	0.85	690	796	96.0	0.82	335	617	94.9	0.73
1360	1200	**1NA1 456-6WC00-0C.0**	992	96.4	0.86	1380	13092	2.20	56.8	2200	1010	894	96.3	0.85	690	795	96.4	0.83	335	617	95.6	0.76
1550	1370	**1NA1 458-6WC00-0C.0**	992	96.6	0.86	1560	14921	2.20	67.0	2200	1155	894	96.5	0.86	785	795	96.6	0.84	385	617	95.9	0.77
1550	1370	**1NA1 458-6WC00-0A.0**	992	96.6	0.87	1540	14921	2.50	54.3	2200	1155	894	96.3	0.86	785	796	96.3	0.84	385	617	95.3	0.75
1680	1480	**1NA1 502-6WC00-0C.0**	990	96.3	0.83	1760	16205	1.40	67.5	2100	1250	893	96.7	0.86	850	795	96.9	0.86	415	617	96.6	0.83
1600	1410	**1NA1 502-6WC00-0A.0**	988	96.0	0.81	1720	15464	1.50	52.8	2100	1190	891	96.3	0.83	810	793	96.5	0.84	395	616	96.1	0.81
1670	1470	**1NA1 504-6WC00-0A.0**	988	96.0	0.83	1760	16141	1.60	59.7	2100	1245	891	96.3	0.85	845	793	96.5	0.86	415	616	96.1	0.82
1760	1550	**1NA1 504-6WC00-0C.0**	990	96.3	0.84	1820	16977	1.40	76.1	2100	1310	893	96.6	0.87	890	795	96.8	0.87	435	617	96.5	0.84
1900	1680	**1NA1 506-6WC00-0A.0**	989	96.3	0.84	1960	18345	1.70	67.3	2100	1415	892	96.5	0.86	960	794	96.6	0.86	470	616	95.9	0.82
2020	1780	**1NA1 506-6WC00-0C.0**	991	96.5	0.85	2050	19465	1.50	85.6	2100	1505	893	96.8	0.87	1020	795	96.9	0.87	500	617	96.4	0.84
2205	1940	**1NA1 508-6WC00-0A.0**	990	96.5	0.86	2200	21269	1.90	76.4	2100	1640	893	96.6	0.86	1115	795	96.6	0.86	545	617	95.8	0.80
2350	2070	**1NA1 508-6WC00-0C.0**	992	96.7	0.86	2350	22622	1.60	96.7	2100	1750	894	96.9	0.87	1190	796	97.0	0.87	580	617	96.4	0.82
2500	2200	**1NA1 564-6WC00-0C.0**	992	97.1	0.87	2500	24066	1.90	136.7	2000	1860	894	97.1	0.88	1265	796	97.2	0.88	620	617	96.5	0.83
2850	2510	**1NA1 566-6WC00-0C.0**	994	97.3	0.87	2800	27380	2.20	151.9	2000	2120	895	97.2	0.87	1440	797	97.2	0.86	705	618	96.2	0.79
3005	2650	**1NA1 568-6WC00-0C.0**	993	97.3	0.88	2950	28898	2.00	167.0	2000	2235	895	97.2	0.88	1515	796	97.2	0.88	740	618	96.4	0.82
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - Square-law torque drive																						
750	660	**1NA1 404-8WC00-0AG0**	740	95.0	0.84	790	9678	1.90	26.7	2400	560	667	95.0	0.83	380	594	95.1	0.81	185	461	94.0	0.74
710	630	**1NA1 404-8WC00-0CG0**	738	94.9	0.82	760	9187	1.70	32.8	2400	530	666	94.9	0.81	360	593	95.1	0.79	175	461	94.3	0.73
860	760	**1NA1 406-8WC00-0AG0**	742	95.4	0.84	900	11068	2.40	30.6	2400	640	669	95.1	0.82	435	595	94.9	0.77	215	462	93.3	0.67
850	750	**1NA1 406-8WC00-0CG0**	740	95.3	0.82	910	10969	2.00	37.6	2400	635	668	95.2	0.81	430	595	95.2	0.77	210	462	94.1	0.69
900	790	**1NA1 408-8WC00-0AG0**	741	95.4	0.85	930	11598	2.20	33.8	2400	670	668	95.2	0.84	455	595	95.1	0.81	225	462	93.8	0.72
860	760	**1NA1 408-8WC00-0CG0**	740	95.3	0.84	900	11098	1.90	41.5	2400	640	667	95.2	0.82	435	594	95.3	0.80	215	462	94.3	0.72
950	840	**1NA1 454-8WC00-0A.0**	740	95.3	0.80	1040	12259	1.80	40.0	2200	710	668	95.3	0.80	480	595	95.3	0.79	235	462	94.4	0.71
920	810	**1NA1 454-8WC00-0C.0**	739	95.2	0.81	1000	11888	1.90	48.8	2200	685	666	95.2	0.80	465	594	95.4	0.79	230	461	94.6	0.72
1060	940	**1NA1 456-8WC00-0A.0**	741	95.5	0.81	1140	13660	1.90	46.4	2200	790	669	95.4	0.81	535	595	95.3	0.79	260	462	94.2	0.70
1050	930	**1NA1 456-8WC00-0C.0**	740	95.4	0.81	1140	13550	2.00	56.4	2200	780	667	95.3	0.81	530	594	95.4	0.79	260	462	94.5	0.71
1300	1150	**1NA1 458-8WC00-0A.0**	742	95.9	0.81	1400	16731	2.10	54.9	2200	970	669	95.7	0.80	660	596	95.6	0.77	320	462	94.3	0.68
1270	1120	**1NA1 458-8WC00-0C.0**	741	95.9	0.81	1360	16367	2.20	66.6	2200	945	668	95.7	0.80	645	595	95.7	0.78	315	462	94.7	0.69
1400	1240	**1NA1 504-8WC00-0C.0**	741	95.7	0.84	1460	18042	1.60	75.7	2100	1045	669	95.8	0.84	710	595	95.9	0.82	345	462	95.2	0.76
1350	1190	**1NA1 504-8WC00-0A.0**	740	95.5	0.79	1500	17421	1.40	58.9	2100	1005	668	95.7	0.80	685	595	96.0	0.79	335	462	95.4	0.74
1600	1410	**1NA1 506-8WC00-0A.0**	742	95.9	0.80	1740	20591	1.70	66.4	2100	1190	669	95.9	0.80	810	596	96.0	0.77	395	462	95.1	0.70
1610	1420	**1NA1 506-8WC00-0C.0**	743	96.0	0.84	1680	20692	1.90	85.2	2100	1200	670	95.9	0.83	815	596	95.9	0.80	400	463	94.7	0.71

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SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque

Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1800	1590	**1NA1 508-8WC00-0C.0**	743	96.1	0.84	1860	23134	1.90	96.4	2100	1340	670	96.0	0.83	910	596	95.9	0.80	445	463	94.7	0.72
1800	1590	**1NA1 508-8WC00-0A.0**	742	96.0	0.80	1960	23165	1.60	75.3	2100	1340	669	96.0	0.80	910	596	96.1	0.78	445	462	95.0	0.71
1800	1590	**1NA1 562-8WC00-0C.0**	742	96.3	0.83	1880	23165	1.50	119.7	2000	1340	669	96.4	0.85	910	595	96.5	0.85	445	462	95.8	0.79
2080	1840	**1NA1 564-8WC00-0C.0**	741	96.2	0.82	2200	26805	1.40	136.4	2000	1550	668	96.5	0.85	1055	595	96.6	0.85	515	462	96.1	0.81
2235	1970	**1NA1 566-8WC00-0C.0**	744	96.8	0.84	2300	28686	1.80	151.7	2000	1660	670	96.8	0.85	1130	596	96.7	0.83	550	463	95.6	0.75
2500	2210	**1NA1 568-8WC00-0C.0**	743	96.6	0.84	2600	32131	1.60	167.0	2000	1860	670	96.7	0.85	1265	596	96.7	0.85	620	463	95.8	0.79

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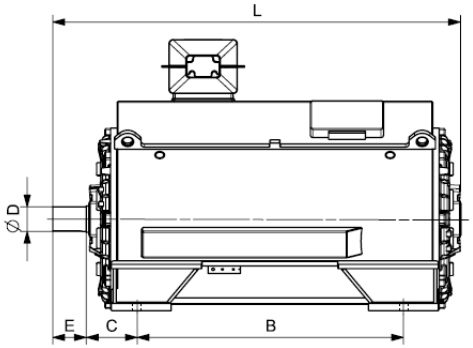

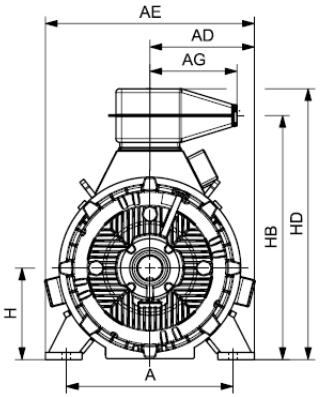

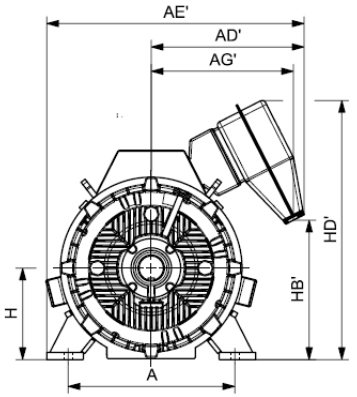

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2WC00-0A.0	2600	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 402-2WC00-0C.0	2700	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 404-2WC00-0A.0	2800	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 404-2WC00-0C.0	2800	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 406-2WC00-0A.0	2900	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 406-2WC00-0C.0	3000	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 408-2WC00-0A.0	3000	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 408-2WC00-0C.0	3100	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 454-2WC00-0A.0	3700	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 454-2WC00-0C.0	3800	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 456-2WC00-0A.0	3900	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 456-2WC00-0C.0	4100	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 458-2WC00-0A.0	4100	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 458-2WC00-0C.0	4300	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 504-2WC00-0AJ0	4900	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 504-2WC00-0C.0	5100	950	371	870	936	1435	371	750	1320	280	110	165	500	1448	873	1613	1494	2049	o.r.
1NA1 506-2WC00-0AJ0	5300	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 506-2WC00-0C.0	5500	950	371	870	936	1435	371	750	1320	280	110	165	500	1448	873	1613	1494	2049	o.r.
1NA1 508-2WC00-0AJ0	5600	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 508-2WC00-0C.0	5800	950	371	870	936	1435	371	750	1320	280	110	165	500	1448	873	1613	1494	2049	o.r.
1NA1 566-2WC00-0C.0	7400	1060	380	903	1015	1538	371	782	1400	290	120	165	560	1584	998	1749	1619	2193	o.r.
1NA1 568-2WC00-0C.0	7800	1060	380	903	1015	1538	371	782	1400	290	120	165	560	1584	998	1749	1619	2193	o.r.
4-pole																			

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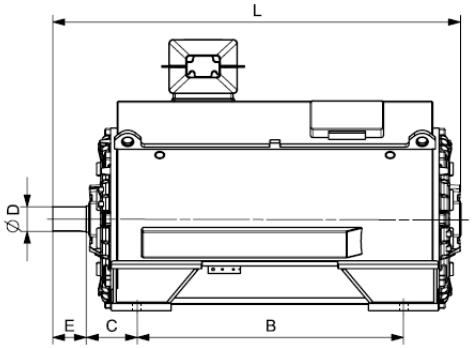

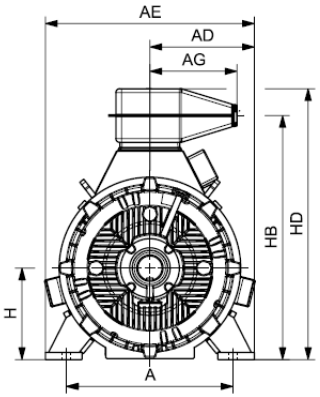

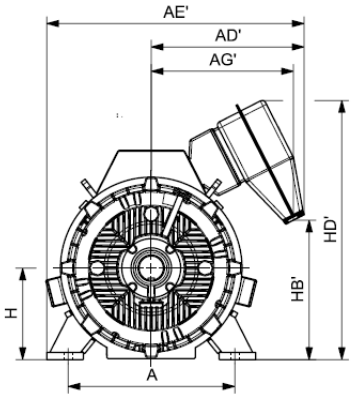

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 311-4WC00-0AG0	1300	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 313-4WC00-0AG0	1400	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 315-4WC00-0AG0	1500	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 317-4WC00-0AG0	1700	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 351-4WC00-0AG0	2000	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 353-4WC00-0AG0	2100	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 355-4WC00-0AG0	2200	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 357-4WC00-0AG0	2400	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 404-4WC00-0A.0	2800	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-4WC00-0C.0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-4WC00-0A.0	3000	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-4WC00-0C.0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-4WC00-0A.0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-4WC00-0C.0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-4WC00-0A.0	3800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 454-4WC00-0C.0	3900	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-4WC00-0A.0	4100	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-4WC00-0C.0	4300	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-4WC00-0C.0	4600	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-4WC00-0A.0	4400	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 504-4WC00-0A.0	5100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-4WC00-0C.0	5300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-4WC00-0A.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-4WC00-0C.0	5800	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.

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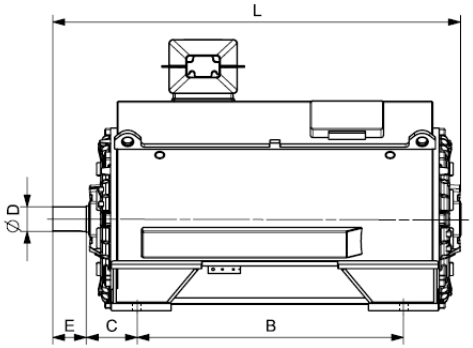

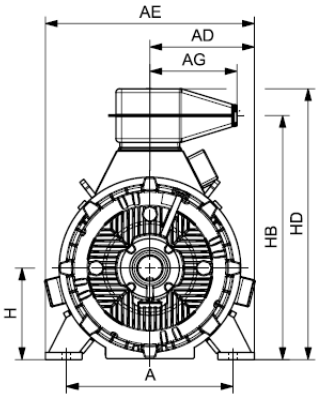

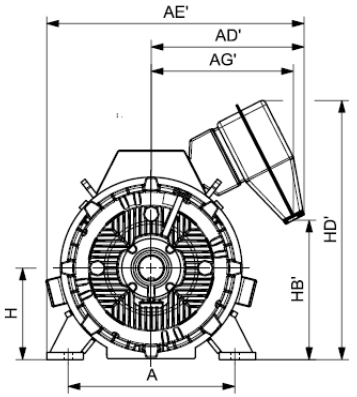

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 508-4WC00-0A.0	6000	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-4WC00-0C.0	6300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-4WC00-0A.0	7000	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 564-4WC00-0C.0	7300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-4WC00-0A.0	7400	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-4WC00-0C.0	7800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-4WC00-0A.0	7900	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-4WC00-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
6-pole																			
1NA1 311-6WC00-0AG0	1300	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 313-6WC00-0AG0	1500	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 315-6WC00-0AG0	1600	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 317-6WC00-0AG0	1700	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 351-6WC00-0AG0	2000	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 353-6WC00-0AG0	2100	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 355-6WC00-0AG0	2200	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 357-6WC00-0AG0	2400	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 404-6WC00-0AG0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-6WC00-0CG0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-6WC00-0AG0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-6WC00-0CG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-6WC00-0AG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-6WC00-0CG0	3600	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-6WC00-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.

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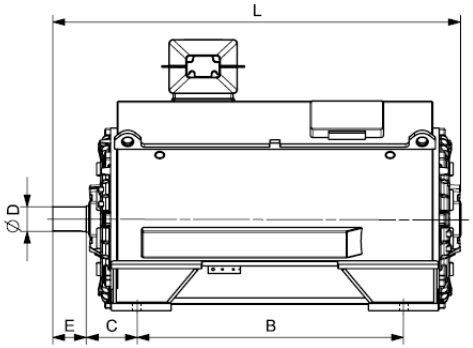

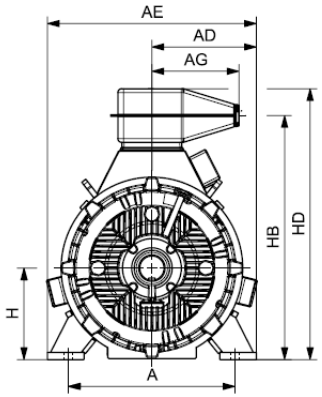

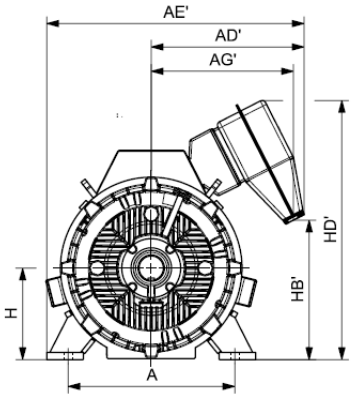

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 454-6WC00-0C.0	3900	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-6WC00-0A.0	4100	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-6WC00-0C.0	4300	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-6WC00-0C.0	4800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-6WC00-0A.0	4600	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 502-6WC00-0C.0	5100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 502-6WC00-0A.0	4900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-6WC00-0A.0	5300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-6WC00-0C.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-6WC00-0A.0	5700	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-6WC00-0C.0	5900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-6WC00-0A.0	6100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-6WC00-0C.0	6400	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-6WC00-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-6WC00-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-6WC00-0C.0	8900	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
8-pole																			
1NA1 404-8WC00-0AG0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-8WC00-0CG0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-8WC00-0AG0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-8WC00-0CG0	3300	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-8WC00-0AG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-8WC00-0CG0	3500	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-8WC00-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.

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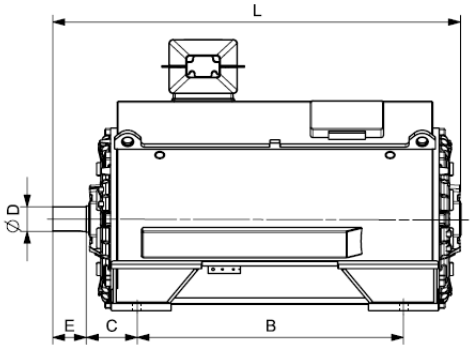

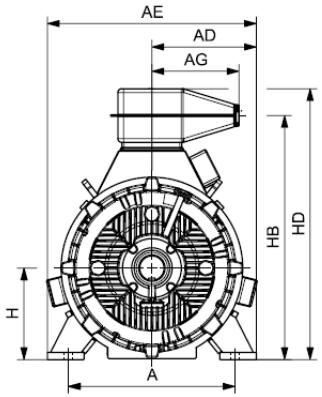

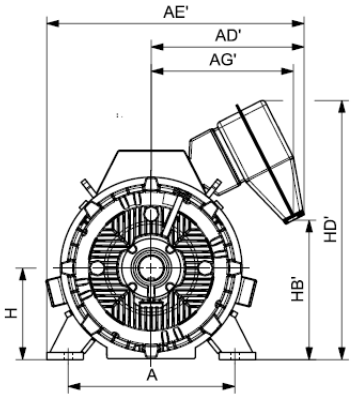

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 454-8WC00-0C.0	3800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-8WC00-0A.0	4000	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-8WC00-0C.0	4200	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-8WC00-0A.0	4500	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-8WC00-0C.0	4700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 504-8WC00-0C.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-8WC00-0A.0	5200	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-8WC00-0A.0	5600	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-8WC00-0C.0	5900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-8WC00-0C.0	6400	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-8WC00-0A.0	6100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 562-8WC00-0C.0	7100	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 564-8WC00-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-8WC00-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-8WC00-0C.0	8800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.

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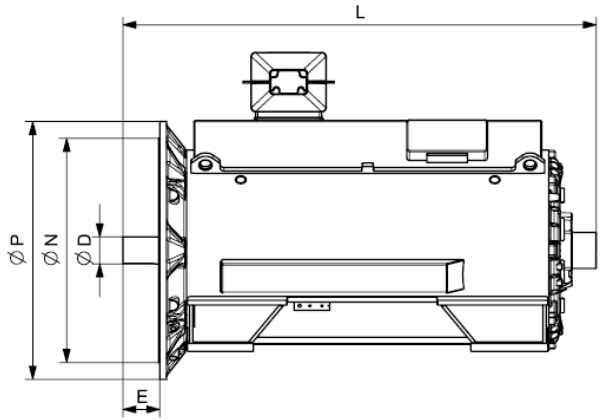

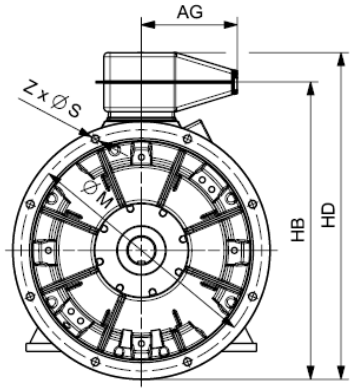

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 311-4WC08-0AG0	1300	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 313-4WC08-0AG0	1500	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 315-4WC08-0AG0	1600	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 317-4WC08-0AG0	1700	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 351-4WC08-0AG0	2100	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 353-4WC08-0AG0	2200	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 355-4WC08-0AG0	2300	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 357-4WC08-0AG0	2500	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 404-4WC08-0AG0	2900	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-4WC08-0CG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-4WC08-0AG0	3100	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-4WC08-0CG0	3200	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-4WC08-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-4WC08-0CG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-4WC08-0AG0	3900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WC08-0CG0	4100	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WC08-0AG0	4300	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WC08-0CG0	4500	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WC08-0CG0	4800	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WC08-0AG0	4600	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WC08-0AG0	5300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WC08-0CG0	5500	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16

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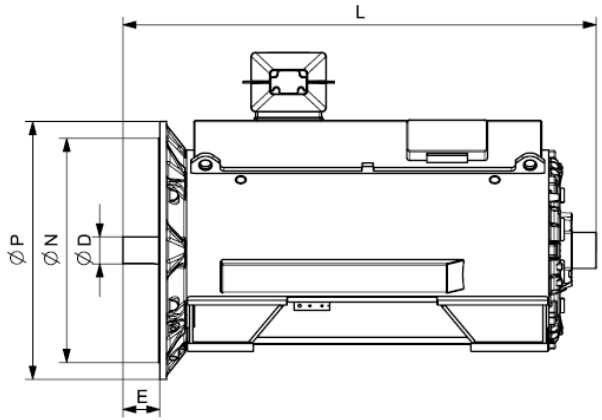

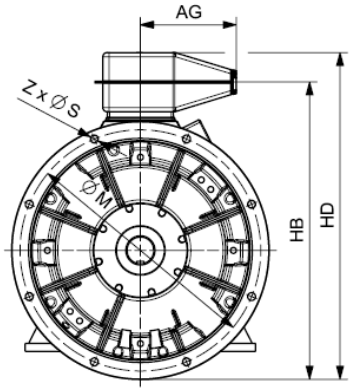

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NA1 506-4WC08-0AG0	5700	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WC08-0CG0	5900	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WC08-0AG0	6200	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WC08-0CG0	6500	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-4WC08-0AG0	7200	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WC08-0CG0	7500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WC08-0AG0	7700	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WC08-0CG0	8000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WC08-0AG0	8100	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WC08-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
6-pole														
1NA1 311-6WC08-0AG0	1400	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 313-6WC08-0AG0	1500	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 315-6WC08-0AG0	1600	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 317-6WC08-0AG0	1700	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 351-6WC08-0AG0	2000	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 353-6WC08-0AG0	2100	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 355-6WC08-0AG0	2300	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 357-6WC08-0AG0	2500	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 404-6WC08-0AG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-6WC08-0CG0	3200	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-6WC08-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-6WC08-0CG0	3400	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8

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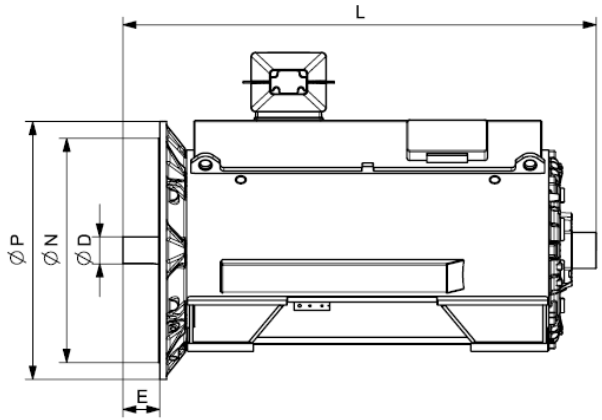

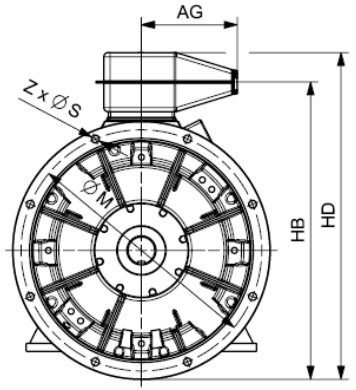

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 408-6WC08-0AG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-6WC08-0CG0	3700	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-6WC08-0AG0	3900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-6WC08-0CG0	4100	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WC08-0AG0	4200	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WC08-0CG0	4400	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WC08-0CG0	4900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WC08-0AG0	4700	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WC08-0CG0	5300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WC08-0AG0	5100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WC08-0AG0	5400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WC08-0CG0	5700	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WC08-0AG0	5800	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WC08-0CG0	6100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WC08-0AG0	6300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WC08-0CG0	6600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WC08-0CG0	7900	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WC08-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WC08-0CG0	9100	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 404-8WC08-0AG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-8WC08-0CG0	3100	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-8WC08-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8

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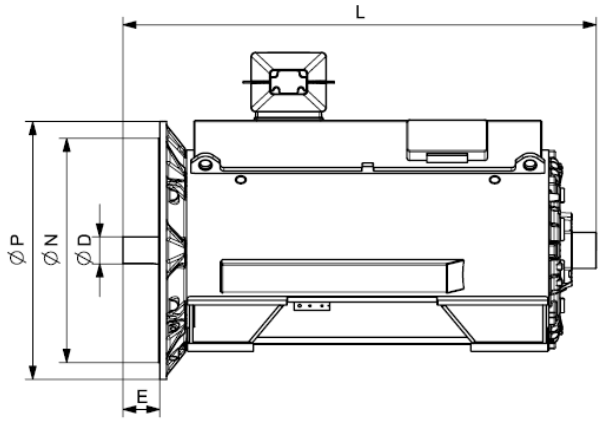

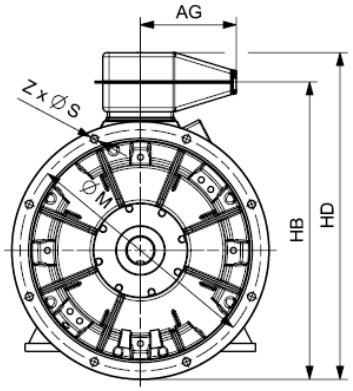

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 406-8WC08-0CG0	3400	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-8WC08-0AG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-8WC08-0CG0	3600	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-8WC08-0AG0	3800	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WC08-0CG0	4000	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WC08-0AG0	4200	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WC08-0CG0	4400	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WC08-0AG0	4700	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WC08-0CG0	4900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 504-8WC08-0CG0	5600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WC08-0AG0	5400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WC08-0AG0	5800	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WC08-0CG0	6100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WC08-0CG0	6600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WC08-0AG0	6300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 562-8WC08-0CG0	7300	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 564-8WC08-0CG0	7900	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WC08-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WC08-0CG0	9000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n ^{2}	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - Square-law torque drive																						
930	820	**1NA1 402-2WC10-0A.0**	3579	96.7	0.93	870	2481	3.20	10.0	3600	705	3284	96.9	0.91	470	2868	96.6	0.88	235	2272	96.1	0.81
930	820	**1NA1 402-2WC10-0C.0**	3580	96.6	0.93	870	2481	3.10	12.3	3600	705	3284	96.8	0.91	470	2868	96.4	0.88	235	2272	95.8	0.81
980	860	**1NA1 404-2WC10-0A.0**	3579	96.7	0.94	900	2615	3.60	11.0	3600	740	3284	96.9	0.93	495	2868	96.6	0.90	245	2272	96.1	0.84
980	860	**1NA1 404-2WC10-0C.0**	3580	96.6	0.94	900	2614	3.50	13.5	3600	745	3284	96.8	0.92	495	2868	96.4	0.89	245	2273	95.7	0.83
1000	880	**1NA1 406-2WC10-0A.0**	3581	96.7	0.95	910	2667	3.90	12.2	3600	755	3285	96.9	0.93	505	2869	96.6	0.90	250	2273	95.9	0.84
1000	880	**1NA1 406-2WC10-0C.0**	3582	96.7	0.94	920	2666	3.80	14.9	3600	760	3286	96.9	0.93	505	2869	96.4	0.89	250	2273	95.6	0.83
1100	970	**1NA1 408-2WC10-0A.0**	3583	97.0	0.94	1000	2932	4.40	13.0	3600	835	3287	97.1	0.92	555	2870	96.7	0.88	275	2274	95.9	0.80
1060	930	**1NA1 408-2WC10-0C.0**	3585	96.9	0.94	970	2824	4.40	15.9	3600	805	3288	97.0	0.91	535	2871	96.4	0.87	265	2274	95.5	0.79
1200	1060	**1NA1 454-2WC10-0C.0**	3585	97.0	0.94	1100	3196	2.90	19.4	3600	910	3288	97.2	0.93	605	2871	96.9	0.90	300	2275	96.4	0.85
1280	1130	**1NA1 456-2WC10-0C.0**	3583	97.0	0.94	1180	3411	2.60	21.3	3600	970	3287	97.2	0.94	645	2870	97.0	0.92	320	2274	96.7	0.89
1500	1320	**1NA1 458-2WC10-0C.0**	3587	97.4	0.95	1360	3993	3.40	23.0	3600	1135	3290	97.5	0.93	760	2872	97.1	0.90	380	2275	96.5	0.85
1840	1620	**1NA1 504-2WC10-0CJ0**	3583	96.9	0.90	1760	4904	2.50	29.2	3600	1395	3287	97.2	0.91	930	2870	96.8	0.89	465	2274	96.0	0.86
2240	1970	**1NA1 506-2WC10-0CJ0**	3586	97.2	0.91	2100	5965	2.90	33.0	3600	1695	3289	97.4	0.91	1130	2872	96.9	0.89	565	2275	95.9	0.85
2300	2030	**1NA1 508-2WC10-0CJ0**	3587	97.3	0.91	2150	6123	3.20	36.0	3600	1740	3290	97.4	0.91	1160	2873	96.9	0.89	580	2275	95.9	0.83
2580	2270	**1NA1 566-2WC10-0CJ0**	3589	97.1	0.92	2400	6865	2.80	54.6	3600	1955	3292	97.2	0.91	1300	2874	96.8	0.90	650	2276	95.9	0.85
2900	2550	**1NA1 568-2WC10-0CJ0**	3592	97.2	0.92	2700	7710	3.60	59.3	3600	2195	3294	97.3	0.90	1465	2875	96.6	0.88	730	2277	95.5	0.80
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - Square-law torque drive																						
320	280	**1NA1 311-4WC10-0AG0**	1787	95.8	0.87	320	1710	3.80	3.6	3300	240	1640	95.9	0.83	160	1432	94.8	0.77	80	1135	92.7	0.65
420	370	**1NA1 313-4WC10-0AG0**	1786	96.0	0.88	415	2246	3.90	4.5	3300	320	1640	96.1	0.84	210	1432	94.8	0.79	105	1135	92.7	0.68
490	430	**1NA1 315-4WC10-0AG0**	1788	96.1	0.87	490	2617	4.40	5.1	3300	370	1640	96.2	0.83	245	1433	94.6	0.77	125	1135	92.1	0.64
580	510	**1NA1 317-4WC10-0AG0**	1787	96.2	0.89	570	3099	4.10	5.8	3300	440	1640	96.3	0.86	295	1432	94.9	0.80	145	1135	92.6	0.70
620	540	**1NA1 351-4WC10-0AG0**	1788	96.3	0.90	600	3311	3.20	7.9	2400	470	1641	96.6	0.88	315	1433	95.4	0.85	155	1136	93.7	0.76
680	590	**1NA1 353-4WC10-0AG0**	1791	96.3	0.88	680	3626	4.40	8.6	2400	515	1643	96.4	0.82	345	1435	94.6	0.77	170	1137	91.9	0.63
750	660	**1NA1 355-4WC10-0AG0**	1789	96.5	0.91	720	4003	3.70	9.5	2400	570	1642	96.7	0.87	380	1434	95.3	0.84	190	1136	93.3	0.74
880	770	**1NA1 357-4WC10-0AG0**	1789	96.5	0.91	840	4697	3.70	10.8	2400	665	1642	96.7	0.88	445	1434	95.3	0.85	220	1136	93.4	0.75
1100	970	**1NA1 404-4WC10-0A.0**	1789	96.6	0.90	1060	5872	2.70	15.6	2600	835	1642	96.8	0.89	555	1434	96.1	0.86	275	1136	94.9	0.79
1070	940	**1NA1 404-4WC10-0C.0**	1787	96.6	0.89	1040	5718	2.50	19.8	2600	810	1640	96.9	0.88	540	1433	96.3	0.86	270	1136	95.4	0.79
1200	1060	**1NA1 406-4WC10-0A.0**	1790	96.7	0.90	1160	6402	3.00	17.4	2600	910	1642	96.9	0.89	605	1434	96.0	0.86	300	1136	94.7	0.77
1200	1060	**1NA1 406-4WC10-0C.0**	1788	96.7	0.89	1160	6409	2.60	22.0	2600	910	1641	97.0	0.88	605	1433	96.4	0.86	305	1136	95.4	0.78
1300	1150	**1NA1 408-4WC10-0A.0**	1791	96.8	0.91	1240	6931	3.30	19.7	2600	985	1643	97.0	0.89	655	1435	96.0	0.85	330	1137	94.5	0.76
1300	1150	**1NA1 408-4WC10-0C.0**	1789	96.9	0.90	1240	6939	2.90	24.9	2600	985	1642	97.1	0.89	655	1434	96.4	0.86	330	1136	95.2	0.77
1510	1330	**1NA1 454-4WC10-0C.0**	1790	96.9	0.89	1460	8056	2.50	33.9	2400	1145	1642	97.2	0.88	765	1434	96.5	0.85	380	1136	95.7	0.78
1550	1370	**1NA1 454-4WC10-0A.0**	1790	96.9	0.90	1480	8269	2.70	26.4	2400	1175	1642	97.2	0.89	785	1434	96.5	0.86	390	1136	95.6	0.79
1700	1500	**1NA1 456-4WC10-0C.0**	1790	97.1	0.90	1620	9069	2.50	39.0	2400	1290	1643	97.3	0.89	860	1434	96.7	0.86	430	1136	95.9	0.79

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SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque																						
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1700	1500	**1NA1 456-4WC10-0A.0**	1790	97.1	0.91	1600	9069	2.80	30.4	2400	1290	1642	97.3	0.89	860	1434	96.6	0.87	430	1136	95.7	0.80
1850	1630	**1NA1 458-4WC10-0C.0**	1791	97.2	0.89	1780	9864	2.60	42.8	2400	1400	1643	97.4	0.88	935	1435	96.8	0.85	465	1137	96.0	0.78
1850	1630	**1NA1 458-4WC10-0A.0**	1791	97.2	0.90	1760	9864	2.90	33.5	2400	1400	1643	97.4	0.89	935	1435	96.8	0.86	465	1137	95.9	0.78
1810	1600	**1NA1 504-4WC10-0A.0**	1788	96.5	0.88	1780	9667	2.30	32.5	2200	1375	1641	96.8	0.89	915	1433	96.4	0.87	455	1136	95.5	0.81
1780	1570	**1NA1 504-4WC10-0C.0**	1789	96.6	0.87	1780	9501	1.90	42.4	2200	1350	1642	96.9	0.87	900	1434	96.5	0.86	450	1136	95.7	0.81
2170	1910	**1NA1 506-4WC10-0A.0**	1790	96.8	0.88	2150	11577	2.50	37.1	2200	1645	1642	97.1	0.88	1095	1434	96.5	0.86	545	1136	95.4	0.79
2160	1900	**1NA1 506-4WC10-0C.0**	1790	96.9	0.87	2150	11523	2.00	48.0	2200	1635	1643	97.1	0.87	1090	1434	96.7	0.85	545	1137	95.8	0.80
2260	1990	**1NA1 508-4WC10-0A.0**	1790	96.9	0.90	2150	12057	2.70	42.4	2200	1715	1642	97.1	0.89	1140	1434	96.4	0.87	570	1136	95.3	0.80
2250	1980	**1NA1 508-4WC10-0C.0**	1791	96.9	0.88	2200	11997	2.10	54.6	2200	1705	1643	97.2	0.88	1135	1435	96.6	0.86	565	1137	95.6	0.81
2550	2250	**1NA1 564-4WC10-0A.0**	1791	97.1	0.88	2500	13596	2.30	59.9	2000	1930	1644	97.3	0.87	1285	1435	96.8	0.86	645	1137	96.1	0.80
2520	2220	**1NA1 564-4WC10-0C.0**	1791	97.1	0.87	2500	13436	2.00	79.4	2000	1910	1643	97.3	0.87	1275	1435	96.9	0.85	635	1137	96.3	0.80
2620	2310	**1NA1 566-4WC10-0A.0**	1791	97.1	0.89	2550	13969	2.30	66.7	2000	1985	1643	97.3	0.89	1325	1435	96.9	0.87	660	1137	96.3	0.82
2620	2310	**1NA1 566-4WC10-0C.0**	1791	97.1	0.88	2550	13969	2.00	88.0	2000	1985	1643	97.4	0.88	1325	1435	96.9	0.87	660	1137	96.3	0.83
3000	2640	**1NA1 568-4WC10-0C.0**	1793	97.3	0.90	2850	15978	2.60	96.7	2000	2275	1645	97.5	0.89	1515	1436	96.9	0.86	755	1138	96.0	0.78
3000	2640	**1NA1 568-4WC10-0A.0**	1793	97.2	0.90	2850	15978	3.00	73.4	2000	2275	1645	97.4	0.89	1515	1436	96.7	0.86	755	1138	95.7	0.78
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - Square-law torque drive																						
280	250	**1NA1 311-6WC10-0AG0**	1192	95.5	0.85	290	2243	2.80	5.8	3100	210	1094	95.7	0.80	140	955	94.4	0.76	70	757	92.2	0.65
340	300	**1NA1 313-6WC10-0AG0**	1193	95.8	0.84	350	2722	3.10	7.0	3100	255	1095	95.9	0.79	170	956	94.2	0.74	85	757	91.6	0.62
400	350	**1NA1 315-6WC10-0AG0**	1192	95.8	0.87	405	3204	2.60	8.1	3100	305	1094	96.1	0.83	200	955	94.9	0.80	100	757	92.9	0.71
460	400	**1NA1 317-6WC10-0AG0**	1192	95.9	0.87	460	3685	2.60	8.8	3100	350	1094	96.1	0.84	230	955	95.0	0.81	115	757	93.2	0.71
600	520	**1NA1 351-6WC10-0AG0**	1193	96.1	0.86	610	4803	2.60	14.0	2000	455	1095	96.5	0.83	305	956	95.4	0.79	150	758	93.7	0.69
660	580	**1NA1 353-6WC10-0AG0**	1193	96.1	0.87	660	5283	2.40	15.4	2000	500	1095	96.5	0.85	335	956	95.6	0.82	165	757	94.1	0.73
750	660	**1NA1 355-6WC10-0AG0**	1193	96.2	0.87	750	6003	2.40	17.2	2000	570	1094	96.6	0.85	380	956	95.8	0.83	190	757	94.3	0.75
850	740	**1NA1 357-6WC10-0AG0**	1193	96.4	0.87	850	6804	2.60	19.3	2000	645	1095	96.7	0.84	430	956	95.7	0.81	215	758	94.0	0.72
1050	930	**1NA1 404-6WC10-0AG0**	1192	96.1	0.88	1040	8412	2.20	25.8	2400	795	1094	96.6	0.88	530	955	95.7	0.86	265	757	94.5	0.81
1020	900	**1NA1 404-6WC10-0CG0**	1190	96.1	0.87	1020	8185	1.90	33.2	2400	775	1093	96.6	0.87	515	954	96.1	0.86	255	757	95.3	0.81
1160	1020	**1NA1 406-6WC10-0AG0**	1192	96.3	0.89	1140	9293	2.40	29.6	2400	880	1094	96.7	0.88	585	956	95.7	0.86	295	757	94.3	0.79
1150	1010	**1NA1 406-6WC10-0CG0**	1191	96.3	0.87	1140	9221	2.10	38.0	2400	870	1093	96.8	0.87	580	955	96.2	0.86	290	757	95.3	0.81
1300	1150	**1NA1 408-6WC10-0AG0**	1193	96.4	0.89	1260	10406	2.90	33.5	2400	985	1095	96.7	0.87	655	956	95.5	0.84	330	757	93.7	0.75
1320	1160	**1NA1 408-6WC10-0CG0**	1193	96.6	0.88	1300	10566	2.40	41.9	2400	1000	1094	97.0	0.87	665	956	96.2	0.84	335	757	95.0	0.76
1360	1200	**1NA1 454-6WC10-0A.0**	1192	96.5	0.86	1380	10895	2.40	39.5	2200	1030	1094	96.7	0.85	690	955	95.9	0.82	345	757	94.7	0.74
1360	1200	**1NA1 454-6WC10-0C.0**	1191	96.5	0.86	1380	10904	2.10	49.1	2200	1030	1093	96.8	0.85	690	955	96.3	0.83	345	757	95.4	0.76
1550	1370	**1NA1 456-6WC10-0C.0**	1191	96.7	0.86	1560	12428	2.10	56.8	2200	1175	1093	97.0	0.85	785	955	96.5	0.84	390	757	95.6	0.77
1550	1370	**1NA1 456-6WC10-0A.0**	1192	96.7	0.87	1540	12417	2.40	45.8	2200	1175	1094	96.9	0.85	785	956	96.1	0.83	390	757	95.0	0.75
1750	1540	**1NA1 458-6WC10-0C.0**	1191	96.8	0.87	1740	14031	2.00	67.0	2200	1325	1093	97.0	0.86	885	955	96.5	0.85	440	757	95.7	0.80

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SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1750	1540	**1NA1 458-6WC10-0A.0**	1192	96.7	0.88	1720	14020	2.30	54.3	2200	1325	1094	96.9	0.87	885	955	96.3	0.85	440	757	95.2	0.79
1850	1630	**1NA1 502-6WC10-0A.0**	1187	96.3	0.81	1980	14883	1.50	52.8	2100	1405	1091	96.8	0.83	935	953	96.6	0.84	470	756	96.0	0.81
1950	1720	**1NA1 502-6WC10-0C.0**	1190	96.6	0.83	2050	15648	1.40	67.5	2100	1480	1093	97.0	0.86	985	955	96.9	0.87	495	757	96.5	0.83
2160	1910	**1NA1 504-6WC10-0A.0**	1189	96.6	0.83	2250	17348	1.70	59.7	2100	1640	1092	97.0	0.84	1095	954	96.7	0.84	545	756	95.9	0.80
2270	2000	**1NA1 504-6WC10-0C.0**	1191	96.8	0.85	2300	18201	1.50	76.1	2100	1720	1094	97.2	0.86	1150	955	97.0	0.86	575	757	96.4	0.82
2200	1940	**1NA1 506-6WC10-0A.0**	1190	96.6	0.85	2250	17654	1.70	67.3	2100	1670	1092	97.0	0.86	1110	954	96.6	0.86	555	756	95.8	0.81
2350	2070	**1NA1 506-6WC10-0C.0**	1192	96.8	0.85	2400	18826	1.50	85.6	2100	1780	1094	97.2	0.87	1190	955	97.0	0.87	595	757	96.3	0.83
2605	2290	**1NA1 508-6WC10-0A.0**	1191	96.9	0.85	2650	20887	1.90	76.4	2100	1975	1093	97.2	0.86	1315	955	96.6	0.85	655	757	95.6	0.79
2770	2440	**1NA1 508-6WC10-0C.0**	1193	97.1	0.86	2800	22172	1.70	96.7	2100	2100	1094	97.4	0.87	1400	956	97.0	0.87	700	757	96.2	0.82
2840	2500	**1NA1 564-6WC10-0C.0**	1194	97.4	0.87	2800	22714	2.20	136.7	2000	2155	1095	97.6	0.88	1435	956	96.9	0.87	715	758	95.8	0.80
2915	2570	**1NA1 566-6WC10-0C.0**	1193	97.3	0.87	2900	23333	2.10	151.9	2000	2205	1095	97.6	0.88	1470	956	96.9	0.88	735	758	95.8	0.82
3110	2740	**1NA1 568-6WC10-0C.0**	1194	97.4	0.88	3050	24873	2.30	167.0	2000	2355	1096	97.6	0.88	1570	957	96.9	0.87	785	758	95.7	0.79
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - Square-law torque drive																						
850	750	**1NA1 404-8WC10-0AG0**	890	95.4	0.85	880	9120	1.90	26.7	2400	645	817	95.8	0.84	430	714	95.2	0.82	215	566	94.0	0.75
800	710	**1NA1 404-8WC10-0CG0**	888	95.2	0.82	860	8603	1.70	32.8	2400	605	816	95.7	0.82	405	713	95.3	0.80	200	566	94.3	0.74
920	810	**1NA1 406-8WC10-0AG0**	891	95.6	0.85	950	9860	2.10	30.6	2400	700	818	96.0	0.84	465	715	95.1	0.81	230	567	93.5	0.73
900	790	**1NA1 406-8WC10-0CG0**	889	95.5	0.83	950	9667	1.80	37.6	2400	685	817	95.9	0.82	455	714	95.3	0.80	230	566	94.1	0.73
1010	890	**1NA1 408-8WC10-0AG0**	891	95.8	0.85	1040	10825	2.10	33.8	2400	765	818	96.1	0.84	510	715	95.3	0.81	255	567	93.8	0.74
1000	880	**1NA1 408-8WC10-0CG0**	889	95.7	0.84	1040	10742	1.80	41.5	2400	760	817	96.0	0.83	505	714	95.4	0.80	255	566	94.3	0.74
1050	930	**1NA1 454-8WC10-0A.0**	890	95.6	0.80	1140	11266	1.70	40.0	2200	795	818	96.1	0.80	530	714	95.5	0.80	265	567	94.5	0.73
1020	900	**1NA1 454-8WC10-0C.0**	888	95.5	0.80	1120	10969	1.80	48.8	2200	775	816	96.0	0.80	515	713	95.5	0.79	260	566	94.6	0.74
1300	1150	**1NA1 456-8WC10-0A.0**	892	96.1	0.80	1420	13917	2.00	46.4	2200	985	819	96.4	0.79	660	715	95.5	0.77	330	567	94.0	0.67
1300	1150	**1NA1 456-8WC10-0C.0**	890	96.0	0.80	1420	13948	2.00	56.4	2200	985	818	96.4	0.79	660	714	95.7	0.78	330	567	94.6	0.69
1450	1280	**1NA1 458-8WC10-0C.0**	890	96.1	0.81	1560	15558	2.00	66.6	2200	1100	818	96.5	0.81	735	715	95.7	0.80	365	567	94.5	0.72
1460	1290	**1NA1 458-8WC10-0A.0**	892	96.2	0.82	1540	15630	1.90	54.9	2200	1110	819	96.5	0.81	740	715	95.6	0.79	370	567	94.1	0.71
1600	1410	**1NA1 504-8WC10-0A.0**	891	96.0	0.79	1760	17148	1.50	58.9	2100	1215	818	96.3	0.80	810	715	96.1	0.78	405	567	95.1	0.72
1600	1410	**1NA1 504-8WC10-0C.0**	892	96.1	0.84	1660	17129	1.80	75.7	2100	1215	819	96.3	0.84	810	716	95.9	0.81	405	567	94.7	0.74
1805	1590	**1NA1 506-8WC10-0C.0**	893	96.2	0.84	1860	19302	1.80	85.2	2100	1365	819	96.4	0.84	910	716	95.9	0.81	455	567	94.6	0.74
1800	1590	**1NA1 506-8WC10-0A.0**	891	96.1	0.79	1980	19292	1.50	66.4	2100	1365	818	96.4	0.80	910	715	96.1	0.79	455	567	95.0	0.73
2000	1760	**1NA1 508-8WC10-0A.0**	892	96.2	0.80	2150	21411	1.60	75.3	2100	1520	819	96.4	0.81	1010	715	96.2	0.79	505	567	95.2	0.72
2100	1850	**1NA1 508-8WC10-0C.0**	892	96.2	0.84	2150	22482	1.60	96.4	2100	1595	819	96.4	0.84	1060	715	96.2	0.83	530	567	95.2	0.78
2285	2010	**1NA1 564-8WC10-0C.0**	894	96.8	0.84	2350	24407	1.80	136.4	2000	1730	820	97.1	0.85	1155	716	96.4	0.83	575	568	95.1	0.75
2530	2230	**1NA1 566-8WC10-0C.0**	894	97.0	0.84	2600	27024	2.10	151.7	2000	1920	821	97.2	0.84	1280	717	96.3	0.81	640	568	94.7	0.71
2800	2470	**1NA1 568-8WC10-0C.0**	893	96.9	0.84	2900	29942	1.70	167.0	2000	2125	820	97.2	0.85	1415	716	96.6	0.85	705	568	95.6	0.79

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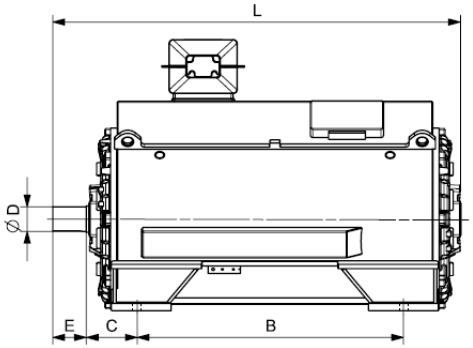

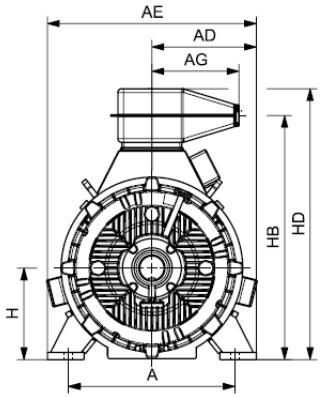

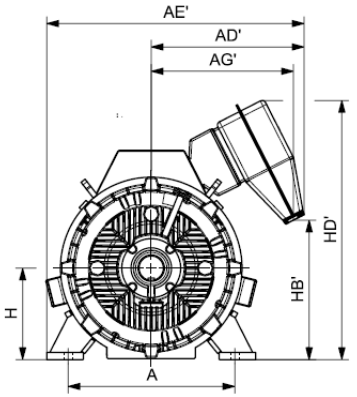

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2WC10-0A.0	2600	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 402-2WC10-0C.0	2700	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 404-2WC10-0A.0	2800	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 404-2WC10-0C.0	2800	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 406-2WC10-0A.0	2900	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 406-2WC10-0C.0	3000	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 408-2WC10-0A.0	3100	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 408-2WC10-0C.0	3200	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 454-2WC10-0C.0	3800	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 456-2WC10-0C.0	4000	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 458-2WC10-0C.0	4200	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 504-2WC10-0CJ0	5100	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 506-2WC10-0CJ0	5500	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 508-2WC10-0CJ0	5800	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 566-2WC10-0CJ0	7100	1060	380	903	1015	1538	371	782	1400	560	120	165	560	1584	998	1749	1619	2577	o.r.
1NA1 568-2WC10-0CJ0	7400	1060	380	903	1015	1538	371	782	1400	560	120	165	560	1584	998	1749	1619	2577	o.r.
4-pole																			
1NA1 311-4WC10-0AG0	1300	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 313-4WC10-0AG0	1400	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 315-4WC10-0AG0	1500	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 317-4WC10-0AG0	1700	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 351-4WC10-0AG0	2000	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 353-4WC10-0AG0	2100	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.

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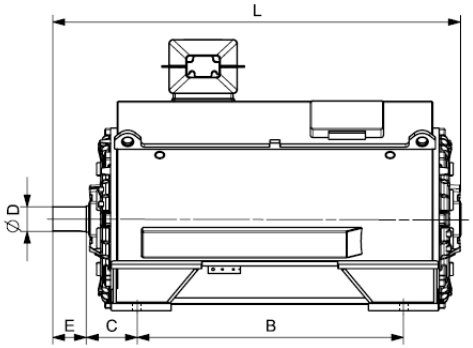

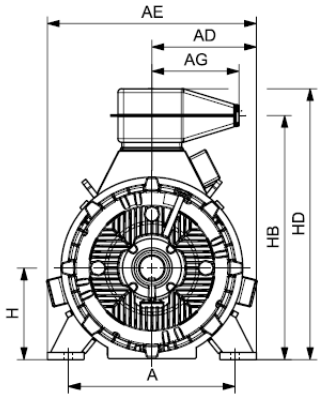

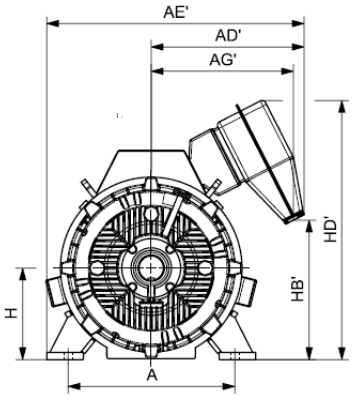

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 355-4WC10-0AG0	2200	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 357-4WC10-0AG0	2400	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 404-4WC10-0A.0	2800	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-4WC10-0C.0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-4WC10-0A.0	3000	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-4WC10-0C.0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-4WC10-0A.0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-4WC10-0C.0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-4WC10-0C.0	3900	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 454-4WC10-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-4WC10-0C.0	4300	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-4WC10-0A.0	4100	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-4WC10-0C.0	4600	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-4WC10-0A.0	4400	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 504-4WC10-0A.0	5100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-4WC10-0C.0	5300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-4WC10-0A.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-4WC10-0C.0	5800	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-4WC10-0A.0	6000	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-4WC10-0C.0	6300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-4WC10-0A.0	6900	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 564-4WC10-0C.0	7200	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-4WC10-0A.0	7400	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-4WC10-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.

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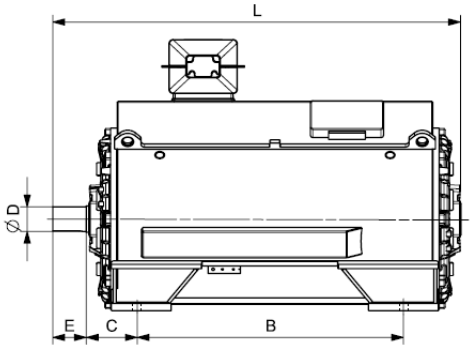

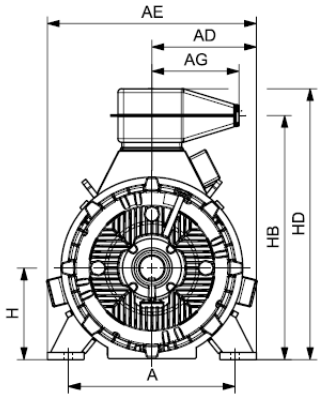

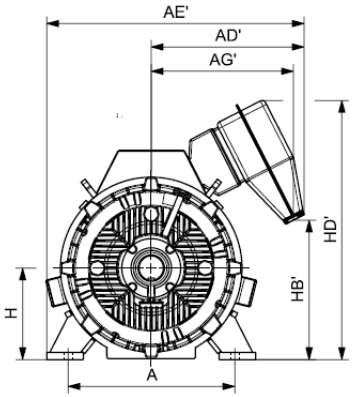

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 568-4WC10-0C.0	8200	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-4WC10-0A.0	7800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
6-pole																			
1NA1 311-6WC10-0AG0	1300	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 313-6WC10-0AG0	1500	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 315-6WC10-0AG0	1600	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 317-6WC10-0AG0	1700	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 351-6WC10-0AG0	2000	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 353-6WC10-0AG0	2100	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 355-6WC10-0AG0	2200	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 357-6WC10-0AG0	2400	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 404-6WC10-0AG0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-6WC10-0CG0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-6WC10-0AG0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-6WC10-0CG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-6WC10-0AG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-6WC10-0CG0	3600	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-6WC10-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 454-6WC10-0C.0	3900	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-6WC10-0C.0	4300	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-6WC10-0A.0	4100	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-6WC10-0C.0	4800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-6WC10-0A.0	4600	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 502-6WC10-0A.0	4900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.

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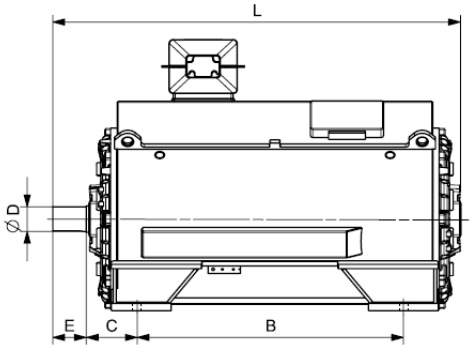

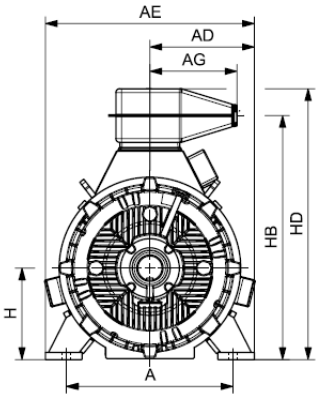

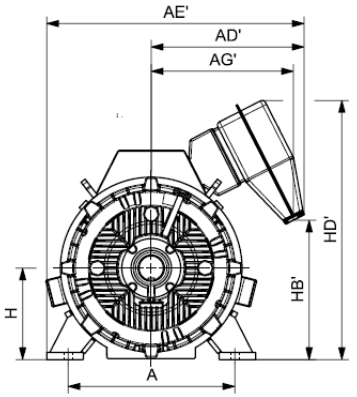

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 502-6WC10-0C.0	5100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-6WC10-0A.0	5300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-6WC10-0C.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-6WC10-0A.0	5600	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-6WC10-0C.0	5900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-6WC10-0A.0	6200	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-6WC10-0C.0	6400	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-6WC10-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-6WC10-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-6WC10-0C.0	8800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
8-pole																			
1NA1 404-8WC10-0AG0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-8WC10-0CG0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-8WC10-0AG0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-8WC10-0CG0	3300	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-8WC10-0AG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-8WC10-0CG0	3500	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-8WC10-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 454-8WC10-0C.0	3800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-8WC10-0A.0	4000	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-8WC10-0C.0	4200	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-8WC10-0C.0	4700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-8WC10-0A.0	4500	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 504-8WC10-0A.0	5200	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.

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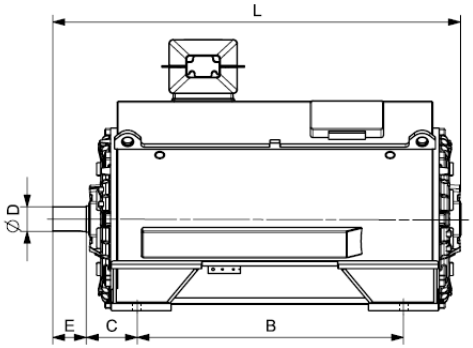

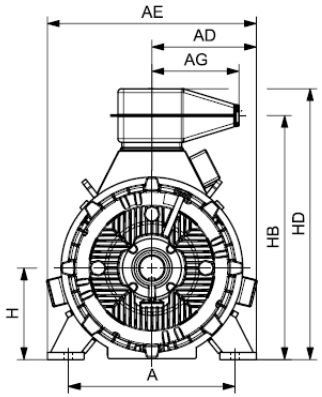

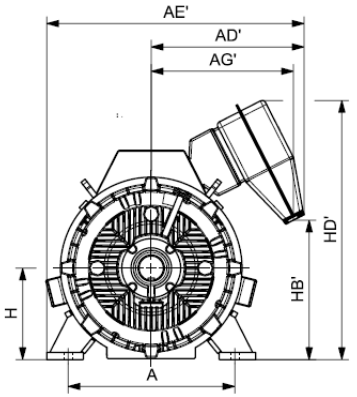

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 504-8WC10-0C.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-8WC10-0C.0	5900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-8WC10-0A.0	5600	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-8WC10-0A.0	6100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-8WC10-0C.0	6400	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-8WC10-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-8WC10-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-8WC10-0C.0	8800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.

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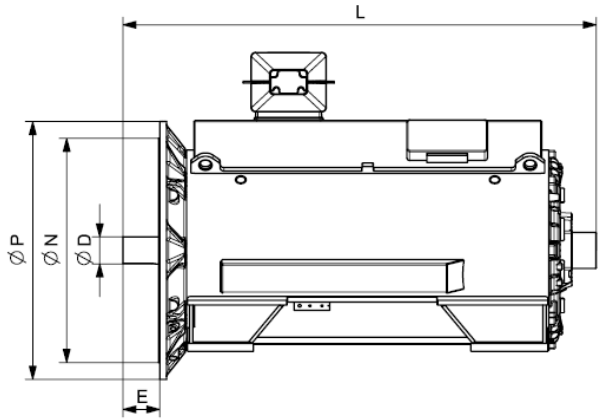

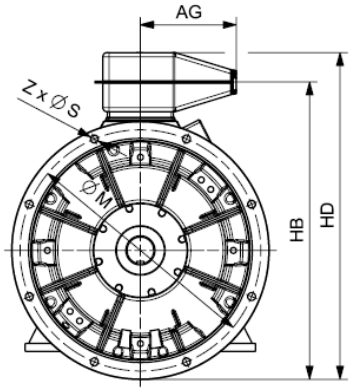

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 311-4WC18-0AG0	1300	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 313-4WC18-0AG0	1500	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 315-4WC18-0AG0	1600	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 317-4WC18-0AG0	1700	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 351-4WC18-0AG0	2100	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 353-4WC18-0AG0	2200	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 355-4WC18-0AG0	2300	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 357-4WC18-0AG0	2500	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 404-4WC18-0AG0	2900	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-4WC18-0CG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-4WC18-0AG0	3100	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-4WC18-0CG0	3200	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-4WC18-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-4WC18-0CG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-4WC18-0CG0	4100	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WC18-0AG0	3900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WC18-0CG0	4500	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WC18-0AG0	4300	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WC18-0CG0	4800	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WC18-0AG0	4500	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WC18-0AG0	5300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WC18-0CG0	5500	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16

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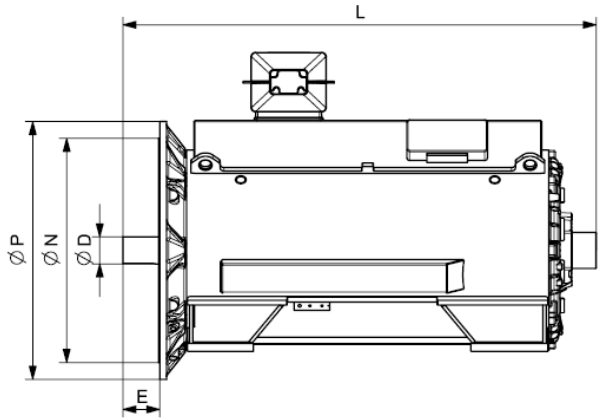

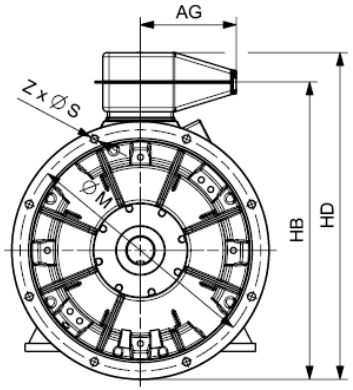

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 506-4WC18-0AG0	5700	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WC18-0CG0	5900	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WC18-0AG0	6200	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WC18-0CG0	6400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-4WC18-0AG0	7100	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WC18-0CG0	7400	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WC18-0AG0	7600	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WC18-0CG0	7900	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WC18-0CG0	8400	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WC18-0AG0	8000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
6-pole													
1NA1 311-6WC18-0AG0	1400	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 313-6WC18-0AG0	1500	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 315-6WC18-0AG0	1600	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 317-6WC18-0AG0	1700	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 351-6WC18-0AG0	2000	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 353-6WC18-0AG0	2200	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 355-6WC18-0AG0	2300	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 357-6WC18-0AG0	2500	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 404-6WC18-0AG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-6WC18-0CG0	3200	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-6WC18-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-6WC18-0CG0	3400	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8

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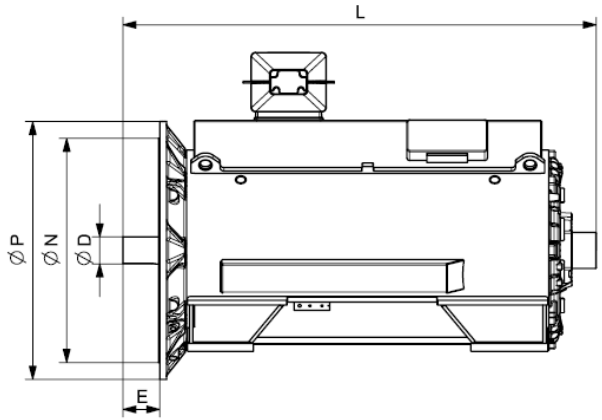

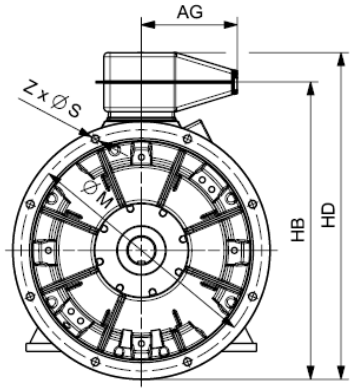

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 408-6WC18-0AG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-6WC18-0CG0	3700	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-6WC18-0AG0	3900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-6WC18-0CG0	4000	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WC18-0CG0	4400	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WC18-0AG0	4200	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WC18-0CG0	4900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WC18-0AG0	4700	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WC18-0AG0	5100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WC18-0CG0	5300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WC18-0AG0	5400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WC18-0CG0	5700	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WC18-0AG0	5800	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WC18-0CG0	6100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WC18-0AG0	6300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WC18-0CG0	6600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WC18-0CG0	8000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WC18-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WC18-0CG0	9000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 404-8WC18-0AG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-8WC18-0CG0	3100	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-8WC18-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8

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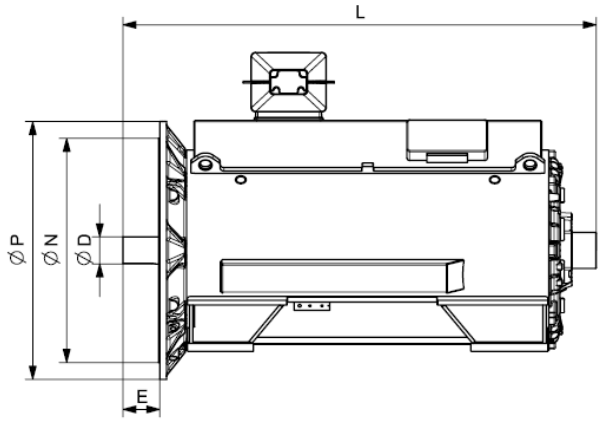

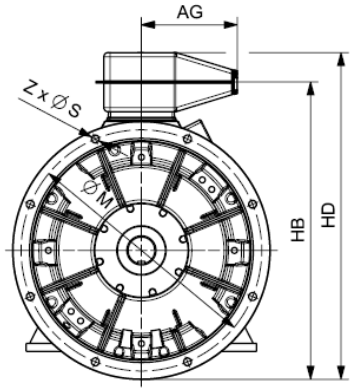

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 406-8WC18-0CG0	3400	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-8WC18-0AG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-8WC18-0CG0	3600	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-8WC18-0AG0	3800	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WC18-0CG0	4000	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WC18-0AG0	4200	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WC18-0CG0	4400	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WC18-0CG0	4900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WC18-0AG0	4700	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 504-8WC18-0AG0	5400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WC18-0CG0	5600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WC18-0CG0	6100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WC18-0AG0	5800	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WC18-0AG0	6300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WC18-0CG0	6500	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-8WC18-0CG0	7900	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WC18-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WC18-0CG0	9000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n 2	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)	Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	1100	**1NA1 454-2WR40-0A.0**	2983	97.0	0.90	174	3521	2.50	14.2	3600	820	2687	97.2	0.90	555	2390	97.3	0.88	270	1854	97.1	0.85
	1060	**1NA1 454-2WR40-0C.0**	2981	96.8	0.90	168	3396	2.20	18.4	3600	790	2684	97.0	0.89	535	2388	97.0	0.88	260	1853	96.8	0.84
	1200	**1NA1 456-2WR40-0A.0**	2984	97.2	0.91	188	3840	2.70	15.7	3600	895	2687	97.3	0.90	605	2391	97.3	0.89	295	1854	97.2	0.85
	1200	**1NA1 456-2WR40-0C.0**	2981	96.9	0.91	188	3844	2.30	20.2	3600	895	2685	97.1	0.90	605	2389	97.1	0.88	295	1853	96.9	0.85
	1320	**1NA1 458-2WR40-0A.0**	2986	97.3	0.92	205	4221	3.00	17.0	3600	980	2688	97.4	0.91	665	2391	97.4	0.89	325	1855	97.1	0.84
	1300	**1NA1 458-2WR40-0C.0**	2983	97.1	0.91	205	4162	2.50	21.9	3600	965	2686	97.2	0.90	655	2390	97.2	0.88	320	1854	96.9	0.84
	1650	**1NA1 504-2WR40-0AJ0**	2983	97.2	0.89	265	5282	2.50	22.6	3600	1230	2686	97.4	0.90	835	2390	97.5	0.89	405	1854	97.4	0.86
	1650	**1NA1 504-2WR40-0C.0**	2984	97.1	0.89	265	5280	2.20	29.7	3000	1230	2687	97.3	0.90	835	2390	97.4	0.88	410	1854	97.2	0.85
	1850	**1NA1 506-2WR40-0AJ0**	2983	97.3	0.90	295	5922	2.50	25.7	3600	1375	2686	97.5	0.90	935	2390	97.6	0.89	455	1854	97.5	0.86
	1850	**1NA1 506-2WR40-0C.0**	2984	97.2	0.90	295	5920	2.20	33.3	3000	1375	2687	97.4	0.90	935	2390	97.5	0.89	455	1854	97.4	0.86
	2120	**1NA1 508-2WR40-0AJ0**	2985	97.5	0.91	330	6782	2.90	28.1	3600	1575	2688	97.6	0.91	1070	2391	97.7	0.89	525	1854	97.5	0.86
	2120	**1NA1 508-2WR40-0C.0**	2986	97.4	0.90	335	6780	2.50	36.2	3000	1575	2688	97.6	0.91	1070	2391	97.6	0.89	525	1855	97.4	0.85
	2450	**1NA1 566-2WR40-0C.0**	2987	97.4	0.90	390	7833	2.10	55.3	3000	1825	2690	97.6	0.91	1240	2392	97.6	0.91	605	1855	97.6	0.88
	2770	**1NA1 568-2WR40-0C.0**	2988	97.6	0.91	435	8853	2.20	60.0	3000	2060	2690	97.7	0.91	1400	2393	97.7	0.91	685	1856	97.6	0.88
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	1250	**1NA1 454-4WR40-0A.0**	1490	96.7	0.86	210	8011	2.50	21.5	2400	930	1342	96.9	0.85	630	1194	96.9	0.81	310	926	96.6	0.73
	1210	**1NA1 454-4WR40-0C.0**	1490	96.7	0.84	205	7755	2.20	27.6	2400	900	1342	96.9	0.84	610	1194	96.9	0.81	300	926	96.7	0.73
	1370	**1NA1 456-4WR40-0A.0**	1490	96.8	0.87	225	8780	2.50	24.8	2400	1020	1342	97.0	0.86	695	1194	97.0	0.83	340	926	96.7	0.75
	1360	**1NA1 456-4WR40-0C.0**	1490	96.8	0.85	230	8716	2.10	31.7	2400	1015	1342	97.0	0.85	690	1194	97.0	0.82	335	926	96.8	0.75
	1550	**1NA1 458-4WR40-0A.0**	1491	97.0	0.86	260	9927	2.70	27.2	2400	1155	1343	97.1	0.85	785	1195	97.1	0.81	385	927	96.7	0.72
	1520	**1NA1 458-4WR40-0C.0**	1491	97.0	0.85	255	9735	2.30	34.8	2400	1130	1343	97.1	0.84	770	1195	97.1	0.81	375	927	96.9	0.73
	1600	**1NA1 504-4WR40-0A.0**	1490	96.8	0.87	265	10254	2.20	32.5	2200	1190	1342	97.0	0.87	810	1194	97.1	0.85	395	926	97.0	0.80
	1560	**1NA1 504-4WR40-0C.0**	1490	96.8	0.85	265	9998	1.80	42.4	2200	1160	1342	97.0	0.85	790	1194	97.2	0.84	385	927	97.1	0.80
	1800	**1NA1 506-4WR40-0A.0**	1490	97.0	0.88	295	11536	2.30	37.1	2200	1340	1342	97.1	0.88	910	1194	97.2	0.85	445	926	97.1	0.79
	1770	**1NA1 506-4WR40-0C.0**	1491	97.0	0.86	295	11336	1.90	48.0	2200	1315	1343	97.2	0.86	895	1195	97.3	0.85	435	927	97.2	0.80
	2000	**1NA1 508-4WR40-0A.0**	1491	97.1	0.89	320	12809	2.70	42.4	2200	1490	1343	97.2	0.88	1010	1195	97.3	0.85	495	927	97.1	0.78
	2000	**1NA1 508-4WR40-0C.0**	1492	97.1	0.87	330	12801	2.10	54.6	2200	1490	1344	97.3	0.87	1010	1195	97.4	0.85	495	927	97.2	0.78
	2250	**1NA1 562-4WR40-0C.0**	1491	97.3	0.84	380	14410	1.70	72.5	2000	1675	1343	97.5	0.85	1135	1195	97.6	0.84	555	927	97.5	0.79
	2270	**1NA1 562-4WR40-0A.0**	1492	97.3	0.86	375	14529	2.00	54.5	2000	1690	1343	97.4	0.86	1145	1195	97.5	0.84	560	927	97.4	0.79
	2550	**1NA1 564-4WR40-0A.0**	1492	97.4	0.87	420	16321	2.10	59.9	2000	1895	1344	97.5	0.87	1290	1195	97.6	0.85	630	927	97.4	0.79
	2510	**1NA1 564-4WR40-0C.0**	1492	97.5	0.86	415	16065	1.90	79.4	2000	1870	1343	97.6	0.86	1270	1195	97.7	0.84	620	927	97.5	0.79
	2810	**1NA1 566-4WR40-0A.0**	1492	97.5	0.88	455	17985	2.20	66.7	2000	2090	1344	97.6	0.88	1420	1195	97.6	0.85	695	927	97.4	0.80
	2800	**1NA1 566-4WR40-0C.0**	1492	97.6	0.87	460	17921	1.90	88.0	2000	2085	1344	97.7	0.87	1415	1195	97.7	0.85	690	927	97.6	0.80
	3100	**1NA1 568-4WR40-0A.0**	1493	97.6	0.89	495	19828	2.30	73.4	2000	2305	1344	97.7	0.88	1565	1196	97.7	0.85	765	927	97.5	0.79

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SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
	3070	**1NA1 568-4WR40-0C.0**	1493	97.7	0.87	500	19636	2.00	96.7	2000	2285	1344	97.8	0.87	1550	1196	97.8	0.85	755	927	97.6	0.79
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	950	**1NA1 454-6WR40-0A.0**	991	96.1	0.80	172	9154	1.80	31.8	2200	710	893	96.3	0.80	480	795	96.4	0.79	235	617	96.1	0.71
	1000	**1NA1 454-6WR40-0C.0**	991	96.2	0.83	174	9636	1.80	41.0	2200	745	893	96.4	0.83	505	795	96.5	0.82	245	617	96.2	0.74
	1070	**1NA1 456-6WR40-0A.0**	992	96.2	0.81	190	10300	1.80	36.9	2200	795	894	96.4	0.81	540	795	96.6	0.80	265	617	96.3	0.72
	1100	**1NA1 456-6WR40-0C.0**	992	96.3	0.84	188	10589	1.90	47.3	2200	820	894	96.5	0.84	555	795	96.6	0.82	270	617	96.3	0.75
	1250	**1NA1 458-6WR40-0A.0**	992	96.4	0.81	220	12033	1.80	43.6	2200	930	893	96.6	0.81	630	795	96.7	0.81	310	617	96.4	0.74
	1270	**1NA1 458-6WR40-0C.0**	992	96.5	0.84	215	12225	1.90	55.7	2200	945	894	96.7	0.84	640	795	96.8	0.82	315	617	96.5	0.75
	1260	**1NA1 502-6WR40-0A.0**	992	96.3	0.84	215	12129	2.00	52.8	2100	940	893	96.6	0.84	635	795	96.8	0.84	310	617	96.7	0.77
	1320	**1NA1 502-6WR40-0C.0**	993	96.5	0.86	220	12694	1.70	67.5	2100	980	895	96.8	0.87	665	796	97.0	0.86	325	618	97.0	0.80
	1410	**1NA1 504-6WR40-0A.0**	991	96.4	0.84	240	13587	1.80	59.7	2100	1050	893	96.7	0.85	715	795	97.0	0.85	350	617	97.0	0.80
	1500	**1NA1 504-6WR40-0C.0**	992	96.6	0.86	250	14439	1.60	76.1	2100	1115	894	96.9	0.87	760	796	97.2	0.87	370	617	97.2	0.83
	1650	**1NA1 506-6WR40-0A.0**	991	96.6	0.85	280	15899	1.90	67.3	2100	1230	893	96.9	0.85	835	795	97.1	0.85	410	617	97.0	0.80
	1750	**1NA1 506-6WR40-0C.0**	993	96.8	0.86	290	16829	1.70	85.6	2100	1305	894	97.1	0.87	885	796	97.3	0.87	430	618	97.3	0.82
	1860	**1NA1 508-6WR40-0A.0**	992	96.7	0.86	310	17905	2.00	76.4	2100	1385	893	97.0	0.86	940	795	97.2	0.86	460	617	97.0	0.80
	1950	**1NA1 508-6WR40-0C.0**	993	96.9	0.87	320	18752	1.80	96.7	2100	1450	895	97.2	0.87	985	796	97.4	0.87	480	618	97.3	0.82
	2170	**1NA1 564-6WR40-0C.0**	993	97.2	0.87	355	20868	2.00	136.7	2000	1615	895	97.4	0.88	1095	796	97.6	0.88	535	618	97.5	0.82
	2440	**1NA1 566-6WR40-0C.0**	994	97.3	0.87	400	23441	2.00	151.9	2000	1815	895	97.5	0.88	1235	796	97.7	0.88	605	618	97.6	0.82
	2660	**1NA1 568-6WR40-0C.0**	994	97.4	0.88	430	25554	2.20	167.0	2000	1980	895	97.6	0.88	1345	797	97.7	0.87	655	618	97.5	0.81
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	750	**1NA1 454-8WR40-0A.0**	742	95.7	0.78	140	9652	1.80	32.0	2200	560	669	95.9	0.78	380	595	96.1	0.76	185	462	95.7	0.67
	780	**1NA1 454-8WR40-0C.0**	742	95.7	0.80	142	10038	1.70	41.1	2200	580	669	95.9	0.80	395	596	96.0	0.78	195	462	95.6	0.69
	850	**1NA1 456-8WR40-0A.0**	742	95.8	0.79	156	10939	1.80	37.1	2200	635	669	96.0	0.79	430	595	96.1	0.77	210	462	95.8	0.68
	900	**1NA1 456-8WR40-0C.0**	742	95.8	0.81	160	11583	1.70	47.4	2200	670	669	96.0	0.81	455	596	96.1	0.79	225	462	95.8	0.70
	1000	**1NA1 458-8WR40-0A.0**	742	95.9	0.79	184	12870	1.70	43.9	2200	745	669	96.1	0.79	505	595	96.3	0.78	250	462	96.1	0.70
	1010	**1NA1 458-8WR40-0C.0**	743	95.9	0.81	180	12981	1.70	55.9	2200	750	669	96.2	0.81	510	596	96.3	0.79	250	462	95.9	0.70
	1120	**1NA1 504-8WR40-0A.0**	743	95.7	0.80	205	14395	1.60	58.9	2100	835	669	95.9	0.80	565	596	96.2	0.78	275	462	95.9	0.72
	1160	**1NA1 504-8WR40-0C.0**	743	95.8	0.85	198	14909	1.80	75.7	2100	865	670	96.0	0.84	585	596	96.2	0.82	285	463	95.8	0.74
	1240	**1NA1 506-8WR40-0A.0**	743	95.8	0.80	225	15937	1.70	66.4	2100	925	669	96.0	0.80	630	596	96.3	0.79	305	462	96.0	0.72
	1280	**1NA1 506-8WR40-0C.0**	744	95.9	0.85	220	16429	1.90	85.2	2100	955	670	96.1	0.84	645	596	96.3	0.82	315	463	95.9	0.74
	1400	**1NA1 508-8WR40-0A.0**	744	96.0	0.81	250	17969	1.90	75.3	2100	1045	670	96.2	0.81	710	596	96.4	0.78	345	463	95.9	0.69
	1450	**1NA1 508-8WR40-0C.0**	744	96.1	0.85	245	18611	2.10	96.4	2100	1080	670	96.2	0.84	735	597	96.3	0.80	360	463	95.8	0.72
	1680	**1NA1 564-8WR40-0C.0**	744	96.7	0.84	285	21563	1.80	136.4	2000	1250	670	96.9	0.85	850	596	97.1	0.84	415	463	97.0	0.77
	1880	**1NA1 566-8WR40-0C.0**	744	96.8	0.85	315	24130	1.90	151.7	2000	1400	670	97.0	0.85	950	597	97.1	0.84	465	463	97.0	0.76
	2050	**1NA1 568-8WR40-0C.0**	744	96.8	0.85	345	26312	1.80	167.0	2000	1525	670	97.1	0.85	1035	597	97.2	0.84	505	463	97.1	0.77

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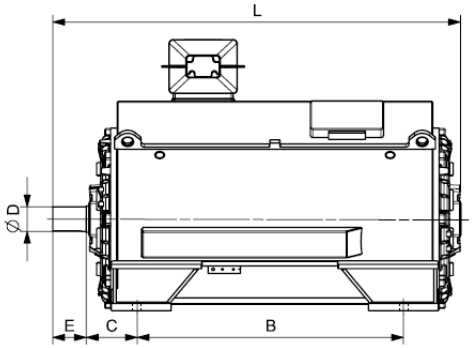

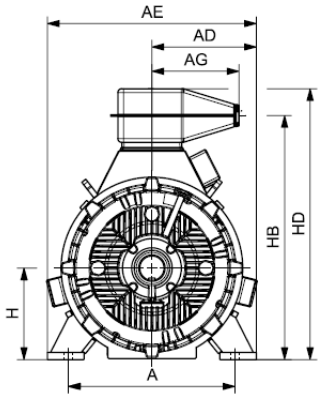

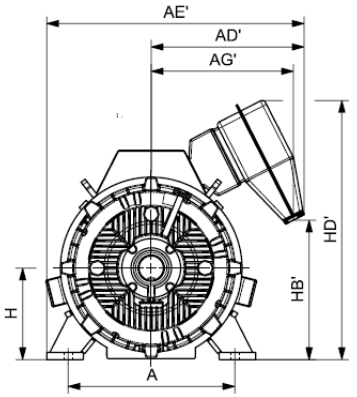

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2WR40-0A.0	3700	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 454-2WR40-0C.0	3900	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 456-2WR40-0A.0	4000	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 456-2WR40-0C.0	4100	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 458-2WR40-0A.0	4200	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 458-2WR40-0C.0	4400	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 504-2WR40-0AJ0	5000	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 504-2WR40-0C.0	5100	950	489	744	1054	1309	489	695	1320	280	110	165	500	1326	713	1457	1358	2049	o.r.
1NA1 506-2WR40-0AJ0	5400	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 506-2WR40-0C.0	5600	950	489	744	1054	1309	489	695	1320	280	110	165	500	1326	713	1457	1358	2049	o.r.
1NA1 508-2WR40-0AJ0	5700	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 508-2WR40-0C.0	5900	950	489	744	1054	1309	489	695	1320	280	110	165	500	1326	713	1457	1358	2049	o.r.
1NA1 566-2WR40-0C.0	7600	1060	489	777	1124	1412	489	728	1400	290	120	165	560	1462	838	1593	1483	2193	o.r.
1NA1 568-2WR40-0C.0	8000	1060	489	777	1124	1412	489	728	1400	290	120	165	560	1462	838	1593	1483	2193	o.r.
4-pole																			
1NA1 454-4WR40-0A.0	3800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-4WR40-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-4WR40-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-4WR40-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-4WR40-0A.0	4400	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-4WR40-0C.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 504-4WR40-0A.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-4WR40-0C.0	5300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.

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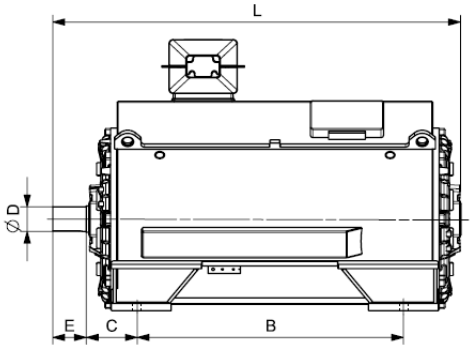

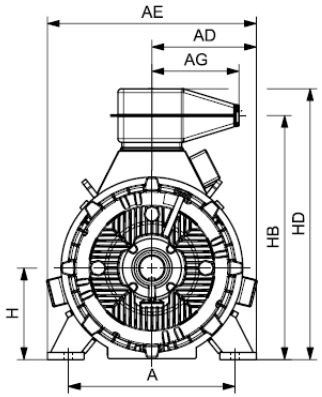

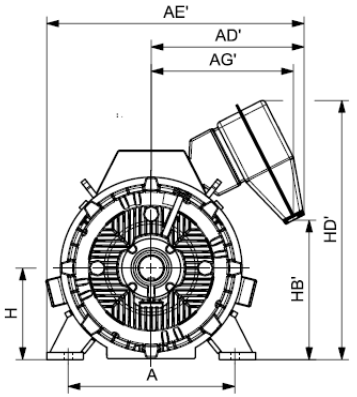

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 506-4WR40-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-4WR40-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-4WR40-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-4WR40-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 562-4WR40-0C.0	6900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 562-4WR40-0A.0	6600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 564-4WR40-0A.0	7000	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 564-4WR40-0C.0	7300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-4WR40-0A.0	7500	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-4WR40-0C.0	7800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-4WR40-0A.0	7900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-4WR40-0C.0	8300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
6-pole																			
1NA1 454-6WR40-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-6WR40-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-6WR40-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-6WR40-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-6WR40-0A.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-6WR40-0C.0	4800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 502-6WR40-0A.0	4800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 502-6WR40-0C.0	5000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-6WR40-0A.0	5200	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-6WR40-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-6WR40-0A.0	5600	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.

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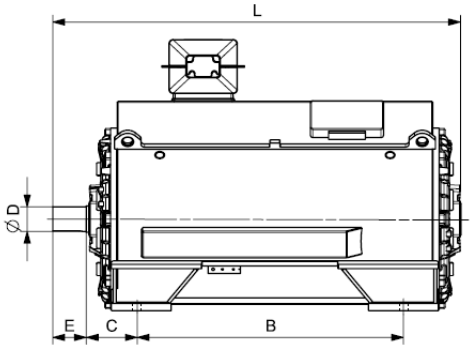

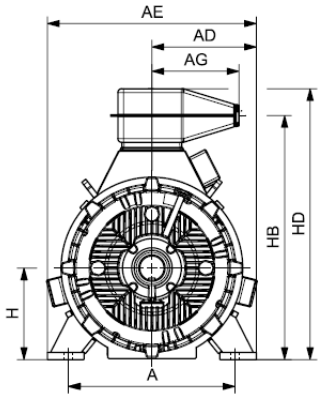

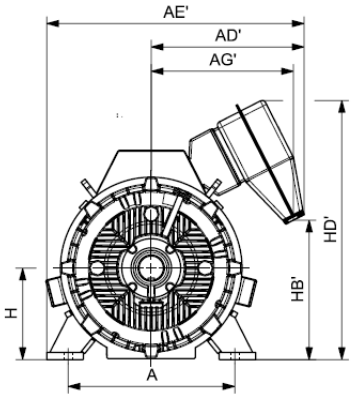

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 506-6WR40-0C.0	5900	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-6WR40-0A.0	6100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-6WR40-0C.0	6400	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 564-6WR40-0C.0	7700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-6WR40-0C.0	8300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-6WR40-0C.0	8800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
8-pole																			
1NA1 454-8WR40-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-8WR40-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-8WR40-0A.0	4000	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-8WR40-0C.0	4200	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-8WR40-0A.0	4500	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-8WR40-0C.0	4700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 504-8WR40-0A.0	5200	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-8WR40-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-8WR40-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-8WR40-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-8WR40-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-8WR40-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 564-8WR40-0C.0	7600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-8WR40-0C.0	8200	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-8WR40-0C.0	8700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.

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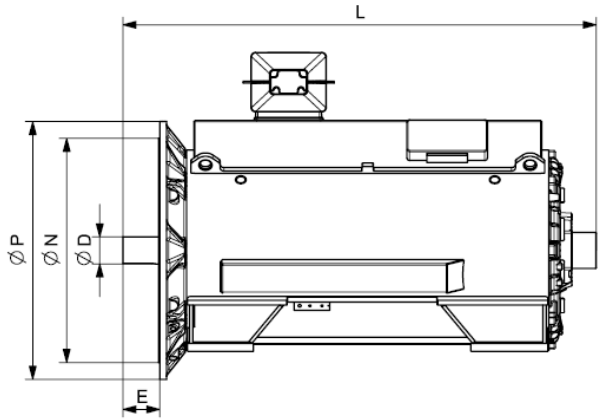

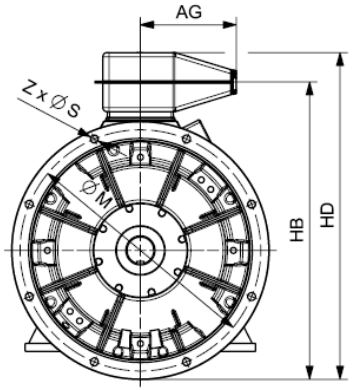

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 454-4WR48-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WR48-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WR48-0AG0	4300	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WR48-0CG0	4500	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WR48-0AG0	4600	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WR48-0CG0	4800	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WR48-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WR48-0CG0	5500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WR48-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WR48-0CG0	5900	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WR48-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WR48-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 562-4WR48-0CG0	7100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 562-4WR48-0AG0	6800	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WR48-0AG0	7200	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WR48-0CG0	7500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WR48-0AG0	7700	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WR48-0CG0	8100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WR48-0AG0	8100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WR48-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
6-pole													
1NA1 454-6WR48-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8

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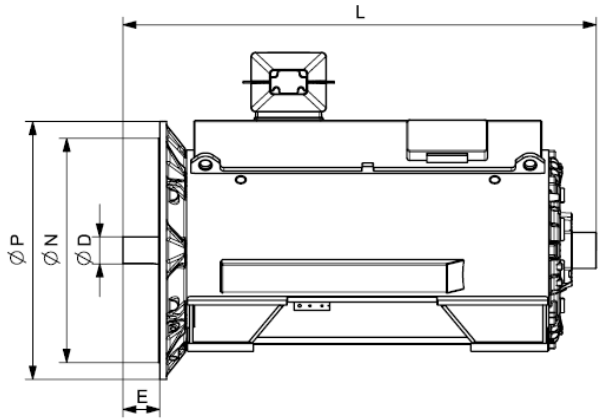

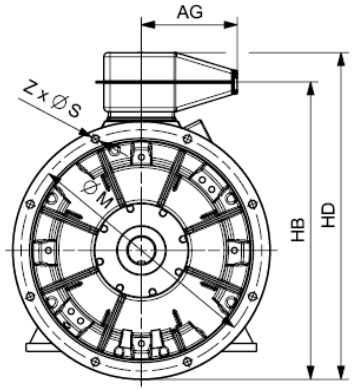

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 454-6WR48-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WR48-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WR48-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WR48-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WR48-0CG0	5000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WR48-0AG0	5000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WR48-0CG0	5200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WR48-0AG0	5400	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WR48-0CG0	5600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WR48-0AG0	5800	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WR48-0CG0	6100	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WR48-0AG0	6300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WR48-0CG0	6600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WR48-0CG0	8000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WR48-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WR48-0CG0	9100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 454-8WR48-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WR48-0CG0	4000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WR48-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WR48-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WR48-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WR48-0CG0	4900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8

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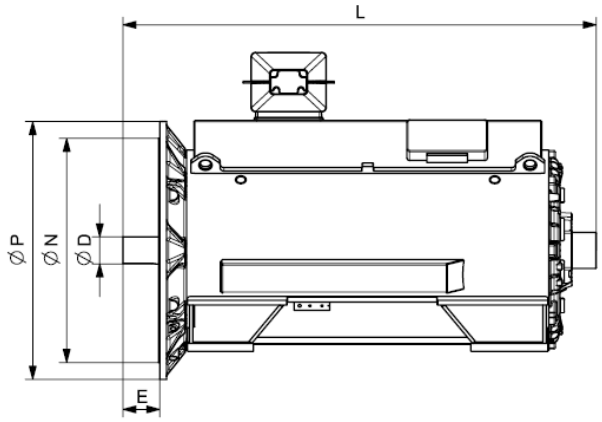

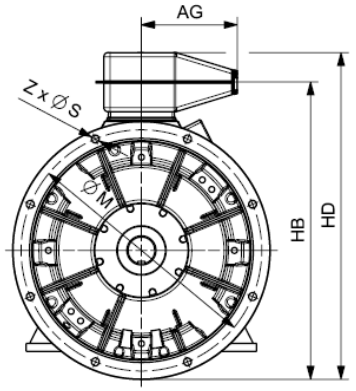

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-8WR48-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WR48-0CG0	5600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WR48-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WR48-0CG0	5900	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WR48-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WR48-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-8WR48-0CG0	7900	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WR48-0CG0	8400	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WR48-0CG0	9000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n 2	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	1250	**1NA1 454-2WR30-0C.0**	3581	96.9	0.90	198	3333	2.20	18.7	3600	950	3285	96.9	0.89	630	2869	96.9	0.87	315	2273	96.6	0.83
	1400	**1NA1 456-2WR30-0C.0**	3583	97.0	0.90	225	3731	2.40	20.6	3600	1060	3286	97.1	0.90	705	2870	97.0	0.88	355	2274	96.7	0.83
	1550	**1NA1 458-2WR30-0C.0**	3584	97.2	0.91	245	4130	2.60	22.3	3600	1175	3287	97.2	0.90	785	2871	97.1	0.87	390	2274	96.6	0.81
	1870	**1NA1 504-2WR30-0CJ0**	3584	97.1	0.89	300	4982	2.30	28.9	3600	1420	3287	97.2	0.90	945	2871	97.2	0.89	470	2274	96.9	0.85
	2150	**1NA1 506-2WR30-0CJ0**	3584	97.3	0.90	340	5729	2.30	32.6	3600	1630	3287	97.4	0.90	1085	2871	97.4	0.89	540	2274	97.0	0.86
	2350	**1NA1 508-2WR30-0CJ0**	3587	97.4	0.90	370	6256	2.60	35.6	3600	1780	3289	97.4	0.90	1185	2872	97.4	0.89	590	2275	97.0	0.84
	2800	**1NA1 566-2WR30-0CJ0**	3587	97.4	0.91	440	7454	2.10	54.6	3600	2120	3289	97.4	0.91	1415	2872	97.4	0.91	705	2275	97.2	0.88
	3100	**1NA1 568-2WR30-0CJ0**	3587	97.5	0.91	485	8253	2.20	59.3	3600	2350	3290	97.6	0.91	1565	2873	97.5	0.91	780	2275	97.3	0.88
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	1460	**1NA1 454-4WR30-0A.0**	1791	96.9	0.85	245	7784	2.60	21.5	2400	1105	1643	97.0	0.84	740	1435	96.9	0.80	370	1137	96.4	0.70
	1450	**1NA1 454-4WR30-0C.0**	1791	96.9	0.84	245	7731	2.10	27.6	2400	1100	1642	97.0	0.83	730	1434	96.9	0.80	365	1137	96.5	0.72
	1650	**1NA1 456-4WR30-0A.0**	1791	97.0	0.86	275	8798	2.60	24.8	2400	1250	1643	97.1	0.85	835	1435	97.0	0.81	415	1137	96.4	0.72
	1620	**1NA1 456-4WR30-0C.0**	1791	97.1	0.85	270	8638	2.20	31.7	2400	1225	1643	97.1	0.84	820	1435	97.0	0.81	410	1137	96.6	0.72
	1770	**1NA1 458-4WR30-0A.0**	1792	97.1	0.87	290	9432	2.80	27.2	2400	1340	1643	97.1	0.85	895	1435	97.0	0.81	445	1137	96.5	0.71
	1770	**1NA1 458-4WR30-0C.0**	1792	97.1	0.86	295	9432	2.30	34.8	2400	1340	1643	97.2	0.84	895	1435	97.1	0.81	445	1137	96.7	0.72
	1750	**1NA1 504-4WR30-0A.0**	1791	96.9	0.88	285	9331	2.40	32.5	2200	1325	1642	96.9	0.87	885	1434	97.0	0.85	440	1137	96.6	0.78
	1750	**1NA1 504-4WR30-0C.0**	1791	96.9	0.85	295	9331	1.90	42.4	2200	1325	1643	97.0	0.86	885	1435	97.0	0.84	440	1137	96.8	0.79
	2010	**1NA1 506-4WR30-0A.0**	1791	97.0	0.88	325	10717	2.60	37.1	2200	1525	1643	97.1	0.88	1015	1435	97.0	0.85	505	1137	96.6	0.77
	2010	**1NA1 506-4WR30-0C.0**	1792	97.1	0.86	335	10711	2.10	48.0	2200	1525	1643	97.1	0.86	1015	1435	97.1	0.84	505	1137	96.7	0.78
	2170	**1NA1 508-4WR30-0A.0**	1791	97.1	0.89	350	11570	2.60	42.4	2200	1645	1643	97.2	0.88	1095	1435	97.2	0.86	545	1137	96.8	0.79
	2170	**1NA1 508-4WR30-0C.0**	1792	97.2	0.87	355	11564	2.10	54.6	2200	1645	1643	97.2	0.87	1095	1435	97.3	0.85	545	1137	96.9	0.79
	2500	**1NA1 562-4WR30-0C.0**	1791	97.3	0.85	420	13330	1.70	72.5	2000	1895	1643	97.4	0.85	1265	1435	97.4	0.84	630	1137	97.2	0.80
	2550	**1NA1 562-4WR30-0A.0**	1791	97.3	0.86	425	13596	2.00	54.5	2000	1935	1643	97.4	0.86	1290	1435	97.3	0.85	645	1137	97.1	0.79
	2800	**1NA1 564-4WR30-0A.0**	1792	97.4	0.87	460	14921	2.10	59.9	2000	2120	1644	97.5	0.87	1415	1435	97.4	0.85	705	1137	97.1	0.80
	2770	**1NA1 564-4WR30-0C.0**	1792	97.5	0.86	460	14761	1.80	79.4	2000	2100	1643	97.5	0.86	1400	1435	97.5	0.85	700	1137	97.2	0.80
	3100	**1NA1 566-4WR30-0A.0**	1792	97.5	0.88	500	16519	2.20	66.7	2000	2350	1644	97.5	0.88	1565	1436	97.5	0.86	780	1137	97.1	0.80
	3050	**1NA1 566-4WR30-0C.0**	1792	97.6	0.87	500	16253	1.90	88.0	2000	2310	1644	97.6	0.87	1540	1436	97.5	0.85	770	1137	97.2	0.80
	3400	**1NA1 568-4WR30-0A.0**	1793	97.7	0.89	540	18108	2.40	73.4	2000	2575	1645	97.6	0.88	1715	1436	97.4	0.85	855	1138	96.9	0.78
	3400	**1NA1 568-4WR30-0C.0**	1793	97.7	0.88	550	18108	2.10	96.7	2000	2575	1644	97.7	0.87	1715	1436	97.6	0.85	855	1138	97.1	0.79
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	1070	**1NA1 454-6WR30-0A.0**	1191	96.3	0.80	192	8579	1.70	31.8	2200	810	1093	96.4	0.80	540	955	96.5	0.80	270	757	96.2	0.73
	1100	**1NA1 454-6WR30-0C.0**	1191	96.4	0.84	188	8820	1.80	41.0	2200	835	1093	96.5	0.84	555	955	96.6	0.82	280	757	96.2	0.75
	1250	**1NA1 456-6WR30-0A.0**	1192	96.5	0.80	225	10014	1.80	36.9	2200	950	1094	96.6	0.80	630	956	96.6	0.79	315	757	96.2	0.71
	1270	**1NA1 456-6WR30-0C.0**	1192	96.6	0.84	215	10174	2.00	47.3	2200	965	1094	96.7	0.83	640	956	96.7	0.81	320	757	96.2	0.73

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SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
	1460	**1NA1 458-6WR30-0A.0**	1192	96.7	0.81	260	11696	1.90	43.6	2200	1105	1094	96.7	0.81	740	956	96.8	0.80	370	757	96.3	0.71
	1500	**1NA1 458-6WR30-0C.0**	1193	96.8	0.84	255	12007	2.00	55.7	2200	1140	1094	96.8	0.84	760	956	96.8	0.82	380	757	96.3	0.73
	1500	**1NA1 502-6WR30-0A.0**	1190	96.5	0.82	265	12037	1.70	52.8	2100	1140	1092	96.8	0.83	760	955	97.0	0.84	380	757	96.9	0.79
	1560	**1NA1 502-6WR30-0C.0**	1192	96.8	0.85	265	12497	1.60	67.5	2100	1185	1094	97.0	0.86	790	956	97.2	0.86	395	757	97.1	0.81
	1700	**1NA1 504-6WR30-0A.0**	1191	96.7	0.84	290	13630	1.80	59.7	2100	1290	1093	97.0	0.85	860	955	97.1	0.85	430	757	97.0	0.80
	1760	**1NA1 504-6WR30-0C.0**	1193	96.9	0.86	295	14088	1.60	76.1	2100	1335	1094	97.2	0.87	890	956	97.3	0.87	445	757	97.2	0.82
	1850	**1NA1 506-6WR30-0A.0**	1192	96.8	0.85	310	14821	2.00	67.3	2100	1400	1094	97.0	0.86	935	955	97.1	0.85	465	757	96.9	0.78
	1910	**1NA1 506-6WR30-0C.0**	1194	97.0	0.87	315	15276	1.80	85.6	2100	1450	1095	97.2	0.87	965	956	97.3	0.87	480	758	97.1	0.80
	2050	**1NA1 508-6WR30-0A.0**	1192	96.9	0.86	340	16423	2.00	76.4	2100	1555	1094	97.1	0.86	1035	955	97.2	0.85	520	757	97.0	0.79
	2150	**1NA1 508-6WR30-0C.0**	1194	97.1	0.87	355	17195	1.80	96.7	2100	1630	1095	97.3	0.87	1085	956	97.4	0.87	540	758	97.2	0.81
	2430	**1NA1 564-6WR30-0C.0**	1193	97.3	0.87	400	19451	2.00	136.7	2000	1845	1095	97.5	0.88	1230	956	97.6	0.88	615	758	97.4	0.82
	2650	**1NA1 566-6WR30-0C.0**	1194	97.4	0.87	435	21194	2.00	151.9	2000	2010	1095	97.6	0.88	1340	956	97.6	0.88	670	758	97.4	0.82
	2920	**1NA1 568-6WR30-0C.0**	1195	97.5	0.88	470	23334	2.30	167.0	2000	2215	1096	97.6	0.88	1475	957	97.6	0.87	735	758	97.2	0.80
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	900	**1NA1 454-8WR30-0A.0**	892	96.0	0.78	166	9635	1.70	32.0	2200	685	819	96.2	0.78	455	715	96.3	0.76	225	567	95.9	0.66
	920	**1NA1 454-8WR30-0C.0**	893	96.1	0.80	166	9838	1.80	41.1	2200	700	819	96.2	0.80	465	716	96.2	0.77	230	567	95.7	0.68
	1000	**1NA1 456-8WR30-0A.0**	892	96.1	0.79	182	10705	1.70	37.1	2200	760	818	96.3	0.79	505	715	96.4	0.78	255	567	96.0	0.70
	1050	**1NA1 456-8WR30-0C.0**	892	96.1	0.81	188	11241	1.60	47.4	2200	795	819	96.3	0.81	530	715	96.3	0.79	265	567	95.9	0.71
	1200	**1NA1 458-8WR30-0A.0**	892	96.3	0.79	220	12847	1.80	43.9	2200	910	819	96.5	0.79	605	716	96.5	0.77	305	567	96.0	0.68
	1210	**1NA1 458-8WR30-0C.0**	893	96.4	0.81	215	12939	1.80	55.9	2200	920	820	96.5	0.80	610	716	96.4	0.78	305	568	95.9	0.68
	1240	**1NA1 504-8WR30-0A.0**	893	96.0	0.80	225	13260	1.70	58.9	2100	940	819	96.1	0.80	625	716	96.3	0.78	315	568	95.9	0.71
	1290	**1NA1 504-8WR30-0C.0**	894	96.1	0.85	220	13779	1.90	75.7	2100	980	820	96.1	0.84	650	716	96.2	0.81	325	568	95.7	0.73
	1400	**1NA1 506-8WR30-0A.0**	893	96.2	0.81	250	14971	1.70	66.4	2100	1060	820	96.2	0.81	710	716	96.4	0.79	355	568	96.0	0.71
	1430	**1NA1 506-8WR30-0C.0**	894	96.2	0.85	245	15275	2.00	85.2	2100	1085	820	96.2	0.84	725	716	96.3	0.81	360	568	95.8	0.73
	1500	**1NA1 508-8WR30-0A.0**	893	96.2	0.81	265	16040	1.70	75.3	2100	1140	819	96.3	0.81	760	716	96.5	0.80	380	568	96.0	0.74
	1560	**1NA1 508-8WR30-0C.0**	894	96.3	0.85	265	16663	1.90	96.4	2100	1185	820	96.3	0.85	790	716	96.4	0.83	395	568	95.8	0.76
	1820	**1NA1 564-8WR30-0C.0**	894	96.8	0.85	305	19440	1.80	136.4	2000	1380	820	97.0	0.85	920	716	97.1	0.84	460	568	96.8	0.77
	2080	**1NA1 566-8WR30-0C.0**	894	96.9	0.85	350	22218	1.90	151.7	2000	1580	821	97.1	0.85	1050	717	97.1	0.84	525	568	96.8	0.75
	2370	**1NA1 568-8WR30-0C.0**	894	97.0	0.85	400	25315	1.80	167.0	2000	1795	820	97.2	0.85	1200	717	97.2	0.84	600	568	97.0	0.77

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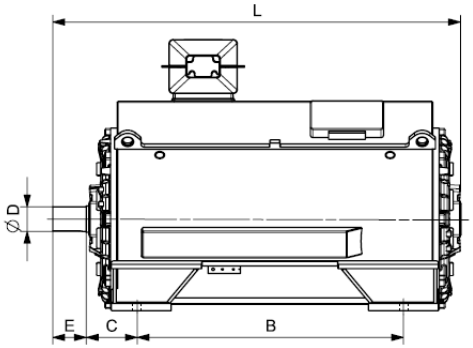

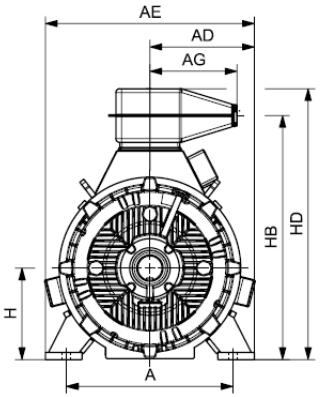

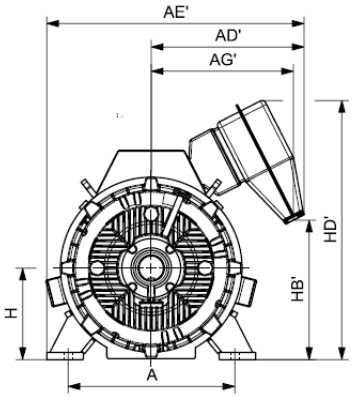

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2WR30-0C.0	3900	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 456-2WR30-0C.0	4100	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 458-2WR30-0C.0	4400	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 504-2WR30-0CJ0	5100	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 506-2WR30-0CJ0	5600	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 508-2WR30-0CJ0	5800	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 566-2WR30-0CJ0	7300	1060	489	777	1124	1412	489	728	1400	560	120	165	560	1462	838	1593	1483	2577	o.r.
1NA1 568-2WR30-0CJ0	7800	1060	489	777	1124	1412	489	728	1400	560	120	165	560	1462	838	1593	1483	2577	o.r.
4-pole																			
1NA1 454-4WR30-0A.0	3800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-4WR30-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-4WR30-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-4WR30-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-4WR30-0A.0	4400	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-4WR30-0C.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 504-4WR30-0A.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-4WR30-0C.0	5300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-4WR30-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-4WR30-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-4WR30-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-4WR30-0C.0	6200	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 562-4WR30-0C.0	6900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 562-4WR30-0A.0	6600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.

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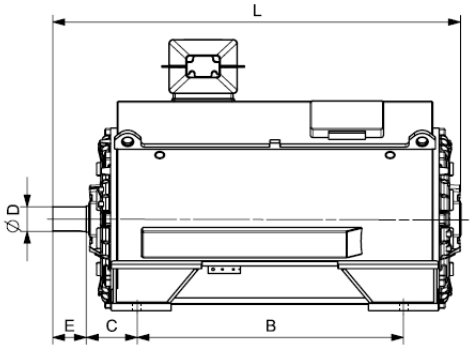

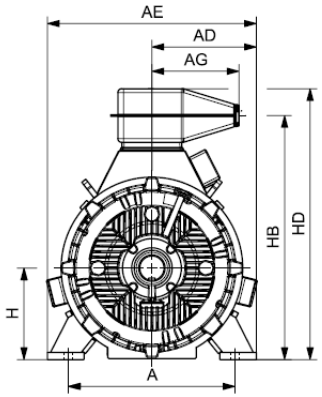

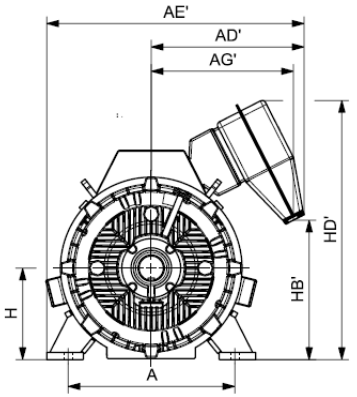

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 564-4WR30-0A.0	7000	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 564-4WR30-0C.0	7300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-4WR30-0A.0	7400	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-4WR30-0C.0	7800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-4WR30-0A.0	8000	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-4WR30-0C.0	8400	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
6-pole																			
1NA1 454-6WR30-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-6WR30-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-6WR30-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-6WR30-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-6WR30-0A.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-6WR30-0C.0	4800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 502-6WR30-0A.0	4900	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 502-6WR30-0C.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-6WR30-0A.0	5200	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-6WR30-0C.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-6WR30-0A.0	5600	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-6WR30-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-6WR30-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-6WR30-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 564-6WR30-0C.0	7700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-6WR30-0C.0	8300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-6WR30-0C.0	8900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.

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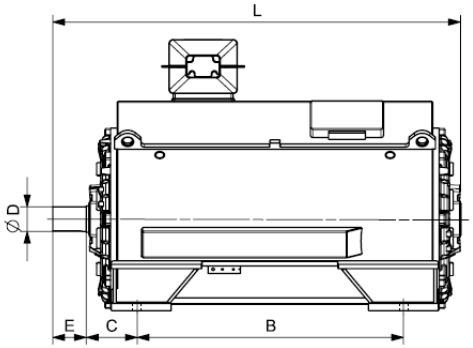

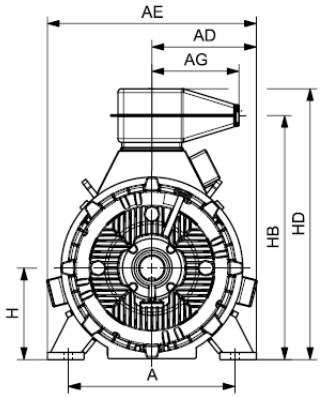

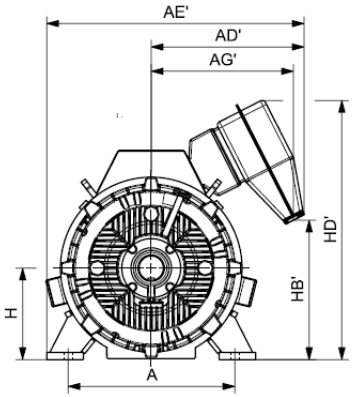

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
8-pole																			
1NA1 454-8WR30-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-8WR30-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-8WR30-0A.0	4000	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-8WR30-0C.0	4200	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-8WR30-0A.0	4500	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-8WR30-0C.0	4800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 504-8WR30-0A.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-8WR30-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-8WR30-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-8WR30-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-8WR30-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-8WR30-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 564-8WR30-0C.0	7600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-8WR30-0C.0	8200	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-8WR30-0C.0	8800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.

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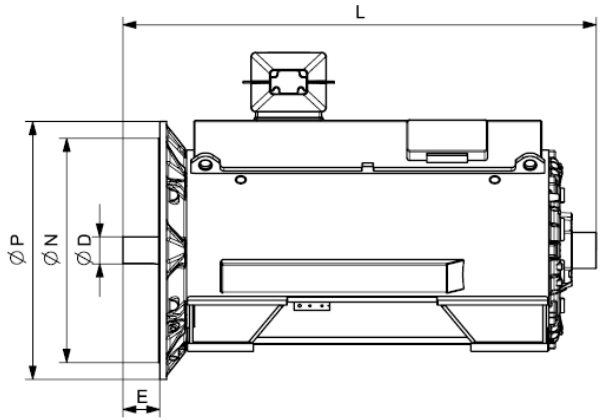

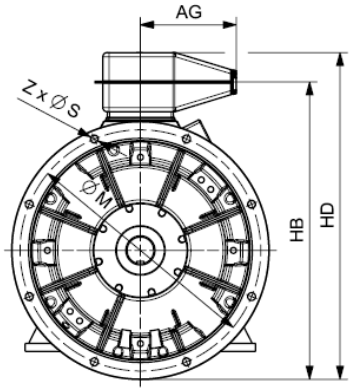

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 454-4WR38-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WR38-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WR38-0AG0	4300	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WR38-0CG0	4500	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WR38-0AG0	4600	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WR38-0CG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WR38-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WR38-0CG0	5500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WR38-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WR38-0CG0	5900	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WR38-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WR38-0CG0	6400	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 562-4WR38-0CG0	7100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 562-4WR38-0AG0	6800	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WR38-0AG0	7200	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WR38-0CG0	7500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WR38-0AG0	7700	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WR38-0CG0	8000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WR38-0AG0	8200	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WR38-0CG0	8600	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
6-pole													
1NA1 454-6WR38-0AG0	3800	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8

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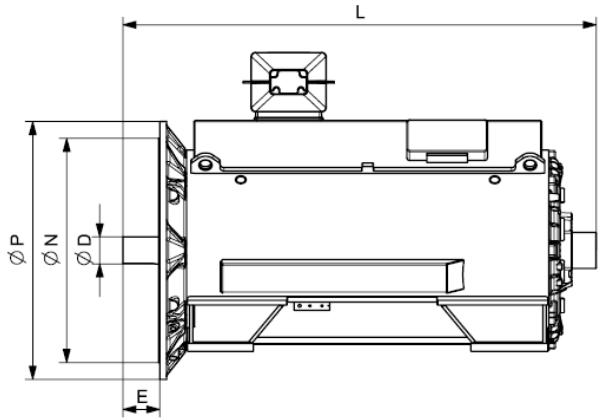

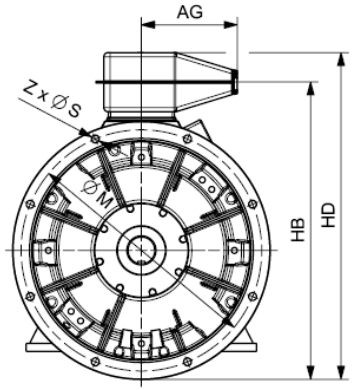

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 454-6WR38-0CG0	4000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WR38-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WR38-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WR38-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WR38-0CG0	5000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WR38-0AG0	5000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WR38-0CG0	5200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WR38-0AG0	5400	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WR38-0CG0	5600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WR38-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WR38-0CG0	6000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WR38-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WR38-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WR38-0CG0	7900	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WR38-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WR38-0CG0	9100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 454-8WR38-0AG0	3800	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WR38-0CG0	4000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WR38-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WR38-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WR38-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WR38-0CG0	4900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8

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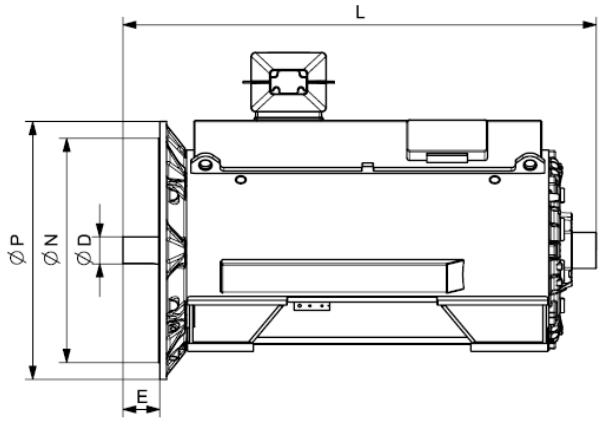

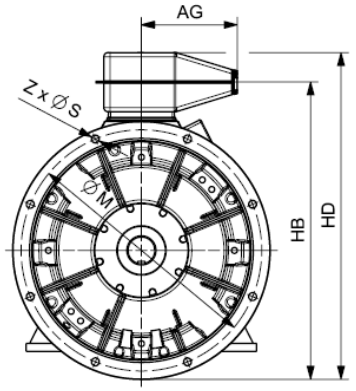

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-8WR38-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WR38-0CG0	5500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WR38-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WR38-0CG0	6000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WR38-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WR38-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-8WR38-0CG0	7800	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WR38-0CG0	8400	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WR38-0CG0	9000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - Square-law torque drive																						
730	640	**1NB1 402-2AC00-4A.0**	2980	96.5	0.93	680	2339	3.50	10.0	3600	545	2685	96.5	0.91	370	2388	96.5	0.88	180	1853	96.0	0.81
690	610	**1NB1 402-2AC00-4C.0**	2982	96.4	0.93	640	2210	3.70	12.3	3600	515	2686	96.4	0.91	350	2389	96.3	0.87	170	1853	95.6	0.79
750	660	**1NB1 404-2AC00-4A.0**	2980	96.5	0.94	690	2403	3.80	11.0	3600	560	2685	96.6	0.93	380	2388	96.5	0.89	185	1853	96.0	0.83
710	630	**1NB1 404-2AC00-4C.0**	2982	96.4	0.94	660	2274	4.00	13.5	3600	530	2686	96.4	0.92	360	2389	96.3	0.88	175	1853	95.6	0.81
850	750	**1NB1 406-2AC00-4A.0**	2982	96.7	0.94	780	2722	3.90	12.2	3600	635	2686	96.8	0.92	430	2389	96.7	0.89	210	1853	96.2	0.82
850	750	**1NB1 406-2AC00-4C.0**	2983	96.7	0.94	780	2721	3.80	14.9	3600	630	2686	96.6	0.92	430	2390	96.6	0.88	210	1854	95.9	0.81
900	790	**1NB1 452-2AC00-4A.0**	2984	96.9	0.93	840	2880	2.90	12.6	3600	670	2688	97.0	0.92	455	2391	97.0	0.89	220	1854	96.8	0.84
900	790	**1NB1 452-2AC00-4C.0**	2984	96.8	0.93	840	2880	2.80	17.1	3600	670	2688	96.9	0.92	455	2391	96.9	0.89	220	1854	96.6	0.84
1000	880	**1NB1 454-2AC00-4A.0**	2983	96.8	0.94	920	3201	2.80	14.1	3600	745	2687	97.0	0.93	505	2390	97.1	0.91	245	1854	96.9	0.87
970	860	**1NB1 454-2AC00-4C.0**	2984	96.8	0.94	890	3104	2.80	19.0	3600	720	2688	96.9	0.93	490	2391	96.9	0.91	240	1854	96.7	0.87
1150	1010	**1NB1 456-2AC00-4A.0**	2985	97.1	0.94	1060	3679	3.30	15.5	3600	855	2689	97.2	0.93	580	2391	97.3	0.91	285	1855	97.0	0.86
1150	1010	**1NB1 456-2AC00-4C.0**	2986	97.1	0.94	1060	3678	3.20	20.9	3600	855	2689	97.1	0.93	580	2392	97.1	0.91	285	1855	96.8	0.86
1150	1010	**1NB1 502-2AC00-4C.0**	2985	96.5	0.90	1100	3679	2.80	27.1	3000	855	2689	96.5	0.90	580	2392	96.4	0.88	285	1855	95.6	0.83
1150	1010	**1NB1 502-2AC00-4A.0**	2984	96.7	0.89	1120	3680	2.80	20.9	3000	855	2688	96.7	0.89	580	2391	96.7	0.87	285	1854	96.1	0.83
1420	1250	**1NB1 504-2AC00-4A.0**	2987	97.0	0.90	1360	4540	3.40	23.3	3000	1055	2690	96.9	0.89	715	2392	96.9	0.87	350	1855	96.1	0.81
1450	1280	**1NB1 504-2AC00-4C.0**	2988	96.8	0.91	1380	4634	3.30	30.0	3000	1080	2690	96.8	0.90	730	2393	96.6	0.87	360	1855	95.7	0.81
1500	1320	**1NB1 506-2AC00-4A.0**	2987	97.0	0.91	1420	4795	3.70	26.4	3000	1115	2690	97.0	0.91	755	2392	96.9	0.88	370	1855	96.1	0.83
1500	1320	**1NB1 506-2AC00-4C.0**	2988	96.9	0.92	1400	4794	3.40	33.7	3000	1115	2691	96.8	0.91	755	2393	96.6	0.88	370	1856	95.7	0.82
1670	1470	**1NB1 564-2AC00-4C.0**	2991	97.0	0.91	1580	5332	3.30	50.0	3000	1240	2693	96.8	0.90	845	2395	96.6	0.87	410	1857	95.7	0.80
1850	1630	**1NB1 566-2AC00-4C.0**	2991	97.1	0.92	1740	5906	3.20	55.2	3000	1375	2693	96.9	0.91	935	2395	96.8	0.89	455	1857	95.9	0.83
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - Square-law torque drive																						
800	710	**1NB1 404-4AC00-4A.0**	1491	96.3	0.89	780	5124	3.40	15.6	2600	595	1343	96.0	0.87	405	1195	95.8	0.82	195	927	94.4	0.72
800	710	**1NB1 404-4AC00-4C.0**	1490	96.4	0.89	780	5127	3.00	19.8	2600	595	1342	96.2	0.87	405	1194	96.1	0.83	195	926	95.1	0.73
850	750	**1NB1 406-4AC00-4A.0**	1492	96.4	0.89	830	5440	3.80	17.4	2600	630	1344	96.0	0.86	430	1195	95.7	0.82	210	927	94.2	0.70
840	740	**1NB1 406-4AC00-4C.0**	1491	96.5	0.89	820	5380	3.30	22.1	2600	625	1343	96.3	0.87	425	1195	96.1	0.82	205	927	94.9	0.72
1000	880	**1NB1 452-4AC00-4A.0**	1490	96.6	0.90	960	6409	2.80	24.0	2400	745	1343	96.5	0.88	505	1194	96.4	0.85	245	927	95.7	0.77
930	820	**1NB1 452-4AC00-4C.0**	1491	96.6	0.89	910	5956	2.70	30.9	2400	690	1343	96.5	0.87	470	1195	96.4	0.83	230	927	95.6	0.75
1150	1010	**1NB1 454-4AC00-4A.0**	1491	96.7	0.90	1100	7365	2.90	26.4	2400	855	1343	96.6	0.88	580	1195	96.5	0.85	285	927	95.8	0.77
1110	980	**1NB1 454-4AC00-4C.0**	1491	96.7	0.89	1080	7109	2.70	33.9	2400	825	1343	96.6	0.87	560	1195	96.5	0.84	275	927	95.8	0.76
1200	1060	**1NB1 456-4AC00-4C.0**	1492	96.8	0.90	1160	7680	2.90	39.0	2400	895	1344	96.7	0.88	605	1195	96.6	0.84	295	927	95.8	0.76
1200	1060	**1NB1 456-4AC00-4A.0**	1492	96.9	0.90	1160	7680	3.30	30.5	2400	895	1343	96.7	0.88	605	1195	96.5	0.85	295	927	95.6	0.76
1150	1010	**1NB1 502-4AC00-4C.0**	1492	96.2	0.87	1140	7360	2.50	37.3	2200	855	1344	96.2	0.86	580	1195	96.1	0.82	285	927	95.2	0.73
1120	990	**1NB1 502-4AC00-4A.0**	1492	96.1	0.88	1100	7168	3.30	28.4	2200	835	1344	96.0	0.85	565	1195	95.8	0.81	275	927	94.7	0.70
1420	1250	**1NB1 504-4AC00-4C.0**	1491	96.5	0.86	1440	9095	2.30	42.4	2200	1055	1343	96.5	0.86	715	1195	96.4	0.83	350	927	95.6	0.76

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SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																						
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)	Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1420	1250	**1NB1 504-4AC00-4A.0**	1491	96.4	0.88	1400	9095	2.90	32.5	2200	1055	1343	96.3	0.86	720	1195	96.2	0.83	350	927	95.2	0.74
1450	1280	**1NB1 506-4AC00-4A.0**	1492	96.5	0.89	1420	9280	3.20	37.0	2200	1080	1344	96.3	0.88	730	1195	96.1	0.84	360	927	95.0	0.75
1450	1280	**1NB1 506-4AC00-4C.0**	1492	96.6	0.88	1420	9280	2.50	48.0	2200	1080	1344	96.5	0.87	730	1196	96.3	0.84	360	927	95.4	0.76
1600	1410	**1NB1 562-4AC00-4A.0**	1493	96.4	0.89	1560	10234	2.70	54.5	2000	1190	1344	96.4	0.87	810	1196	96.3	0.85	395	927	95.5	0.77
1600	1410	**1NB1 562-4AC00-4C.0**	1492	96.5	0.88	1580	10241	2.30	72.4	2000	1190	1344	96.5	0.87	810	1196	96.4	0.85	395	927	95.7	0.78
1900	1670	**1NB1 564-4AC00-4A.0**	1493	96.8	0.89	1840	12152	2.70	59.9	2000	1415	1344	96.6	0.88	960	1196	96.5	0.85	470	927	95.6	0.77
1900	1670	**1NB1 564-4AC00-4C.0**	1493	96.8	0.88	1860	12152	2.40	79.3	2000	1415	1344	96.7	0.87	960	1196	96.6	0.85	470	927	95.8	0.78
1950	1720	**1NB1 566-4AC00-4A.0**	1493	96.8	0.90	1880	12472	2.70	66.6	2000	1450	1344	96.7	0.89	985	1196	96.5	0.86	480	927	95.7	0.79
1950	1720	**1NB1 566-4AC00-4C.0**	1493	96.8	0.89	1900	12472	2.40	88.0	2000	1450	1344	96.7	0.88	985	1196	96.6	0.86	480	927	95.8	0.80
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - Square-law torque drive																						
600	530	**1NB1 404-6AC00-4A.0**	995	96.1	0.87	600	5758	3.60	25.9	2400	445	896	95.5	0.84	305	797	95.0	0.79	150	618	92.8	0.67
630	560	**1NB1 404-6AC00-4C.0**	994	96.2	0.87	630	6052	2.90	33.3	2400	470	895	96.0	0.85	320	796	95.7	0.81	155	618	94.4	0.71
630	560	**1NB1 406-6AC00-4A.0**	996	96.1	0.87	630	6040	3.90	29.6	2400	470	897	95.4	0.83	320	797	94.8	0.78	155	618	92.5	0.65
670	590	**1NB1 406-6AC00-4C.0**	994	96.3	0.87	670	6437	3.20	38.1	2400	500	896	96.0	0.85	340	797	95.7	0.80	165	618	94.2	0.70
800	710	**1NB1 452-6AC00-4A.0**	993	96.2	0.85	820	7693	2.80	34.8	2200	595	895	95.9	0.83	405	796	95.7	0.79	200	618	94.4	0.69
800	710	**1NB1 452-6AC00-4C.0**	992	96.2	0.84	830	7701	2.50	43.4	2200	595	894	96.1	0.83	405	796	96.1	0.81	200	617	95.1	0.72
910	800	**1NB1 454-6AC00-4A.0**	993	96.3	0.86	920	8751	2.90	39.5	2200	675	895	96.0	0.83	460	796	95.8	0.80	225	618	94.5	0.69
910	800	**1NB1 454-6AC00-4C.0**	993	96.4	0.85	930	8751	2.50	49.1	2200	680	894	96.2	0.84	460	796	96.2	0.81	225	617	95.2	0.72
910	800	**1NB1 456-6AC00-4A.0**	995	96.4	0.84	940	8734	3.80	45.8	2200	675	896	95.7	0.80	460	797	95.3	0.74	225	618	93.5	0.60
950	840	**1NB1 456-6AC00-4C.0**	995	96.6	0.85	970	9117	3.20	56.7	2200	705	896	96.2	0.82	480	797	96.0	0.77	235	618	94.6	0.65
1000	880	**1NB1 500-6AC00-4C.0**	993	96.2	0.86	1020	9617	1.90	59.8	2100	745	895	96.4	0.86	505	796	96.3	0.85	245	618	95.6	0.78
920	810	**1NB1 500-6AC00-4A.0**	992	96.0	0.83	970	8856	2.20	46.5	2100	685	894	96.1	0.84	465	795	96.0	0.82	225	617	95.0	0.74
1150	1010	**1NB1 502-6AC00-4A.0**	992	96.3	0.83	1200	11070	2.20	52.7	2100	855	894	96.4	0.83	580	795	96.3	0.82	285	617	95.4	0.74
1220	1080	**1NB1 502-6AC00-4C.0**	994	96.5	0.86	1240	11720	1.90	67.5	2100	910	895	96.6	0.86	615	796	96.6	0.84	300	618	95.9	0.77
1260	1110	**1NB1 504-6AC00-4C.0**	994	96.5	0.87	1260	12105	1.90	76.1	2100	940	895	96.6	0.87	635	796	96.6	0.85	310	618	95.8	0.78
1200	1060	**1NB1 504-6AC00-4A.0**	992	96.3	0.85	1220	11552	2.20	59.7	2100	895	894	96.4	0.85	605	796	96.3	0.84	295	617	95.3	0.76
1400	1230	**1NB1 506-6AC00-4C.0**	994	96.7	0.87	1400	13450	2.10	85.6	2100	1040	896	96.7	0.87	705	797	96.6	0.84	345	618	95.5	0.76
1400	1230	**1NB1 506-6AC00-4A.0**	993	96.5	0.86	1420	13463	2.30	67.3	2100	1040	894	96.4	0.85	710	796	96.3	0.83	345	617	95.1	0.75
1610	1420	**1NB1 562-6AC00-4C.0**	994	96.9	0.87	1600	15467	2.30	120.2	2000	1200	895	96.9	0.87	815	797	96.9	0.86	395	618	96.0	0.79
1950	1720	**1NB1 564-6AC00-4C.0**	994	97.1	0.88	1900	18734	2.40	136.7	2000	1450	896	97.0	0.87	985	797	96.9	0.86	480	618	95.8	0.78
2110	1860	**1NB1 566-6AC00-4C.0**	996	97.2	0.87	2100	20230	2.90	151.8	2000	1570	897	96.9	0.85	1065	797	96.7	0.82	520	618	95.3	0.71
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - Square-law torque drive																						
490	430	**1NB1 404-8AC00-4A.0**	744	95.7	0.83	520	6289	3.00	26.7	2400	365	670	95.1	0.79	250	596	94.7	0.73	120	463	92.4	0.61
490	430	**1NB1 404-8AC00-4C.0**	742	95.5	0.81	530	6306	2.50	32.9	2400	365	669	95.3	0.79	250	596	95.0	0.74	120	462	93.3	0.63
520	460	**1NB1 406-8AC00-4A.0**	745	95.7	0.79	580	6665	3.90	30.6	2400	385	671	94.5	0.73	265	597	93.7	0.65	130	463	90.4	0.50

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SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque

Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
520	460	**1NB1 406-8AC00-4C.0**	745	95.8	0.79	570	6665	3.30	37.6	2400	385	671	95.1	0.74	265	597	94.5	0.67	130	463	92.0	0.53
630	560	**1NB1 452-8AC00-4A.0**	743	95.6	0.78	710	8097	2.30	35.1	2200	470	670	95.2	0.77	320	596	95.0	0.74	155	463	93.5	0.63
630	560	**1NB1 452-8AC00-4C.0**	741	95.5	0.79	700	8119	2.30	43.0	2200	470	668	95.3	0.77	320	595	95.2	0.75	155	462	94.0	0.65
720	640	**1NB1 454-8AC00-4A.0**	743	95.6	0.80	790	9254	2.40	39.9	2200	535	670	95.3	0.78	365	596	95.0	0.74	180	463	93.4	0.63
710	630	**1NB1 454-8AC00-4C.0**	742	95.6	0.80	780	9137	2.40	48.8	2200	530	669	95.4	0.78	360	595	95.2	0.75	175	462	93.9	0.65
750	660	**1NB1 456-8AC00-4A.0**	744	95.8	0.80	820	9626	2.80	46.4	2200	560	671	95.2	0.77	380	597	94.8	0.72	185	463	92.8	0.59
750	660	**1NB1 456-8AC00-4C.0**	743	95.8	0.80	820	9639	2.80	56.4	2200	560	670	95.4	0.78	380	596	95.1	0.73	185	463	93.5	0.61
810	710	**1NB1 502-8AC00-4C.0**	744	95.7	0.85	830	10396	2.00	67.0	2100	605	670	95.6	0.83	410	596	95.6	0.80	200	463	94.5	0.71
800	710	**1NB1 502-8AC00-4A.0**	743	95.6	0.80	880	10282	1.70	52.0	2100	595	670	95.7	0.79	405	596	95.8	0.77	200	463	94.9	0.70
950	840	**1NB1 504-8AC00-4A.0**	743	95.8	0.80	1040	12210	1.80	58.8	2100	710	670	95.8	0.80	480	596	95.9	0.77	235	463	94.8	0.68
960	850	**1NB1 504-8AC00-4C.0**	744	95.9	0.85	990	12322	2.10	75.6	2100	715	670	95.7	0.83	485	597	95.6	0.79	235	463	94.4	0.70
970	860	**1NB1 506-8AC00-4A.0**	744	96.0	0.81	1040	12450	2.20	66.4	2100	720	671	95.8	0.79	490	597	95.7	0.75	240	463	94.2	0.64
1000	880	**1NB1 506-8AC00-4C.0**	745	95.9	0.85	1020	12818	2.40	85.1	2100	745	671	95.7	0.82	505	597	95.4	0.77	245	463	93.8	0.66
1250	1100	**1NB1 562-8AC00-4C.0**	744	96.5	0.85	1280	16044	2.00	119.6	2000	930	671	96.4	0.84	630	597	96.3	0.82	310	463	95.2	0.72
1450	1280	**1NB1 564-8AC00-4C.0**	744	96.6	0.85	1480	18611	2.10	136.3	2000	1080	671	96.6	0.84	735	597	96.4	0.82	360	463	95.3	0.72
1510	1330	**1NB1 566-8AC00-4C.0**	744	96.7	0.85	1540	19381	2.10	151.7	2000	1125	671	96.6	0.85	765	597	96.5	0.82	375	463	95.3	0.73

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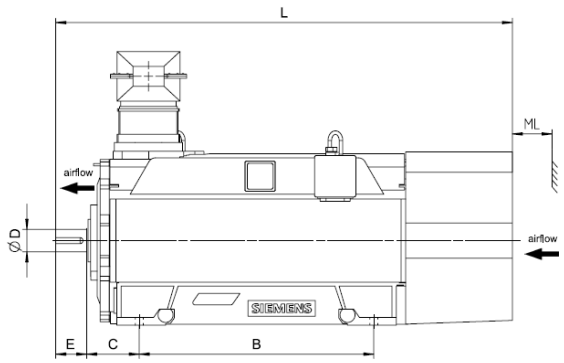

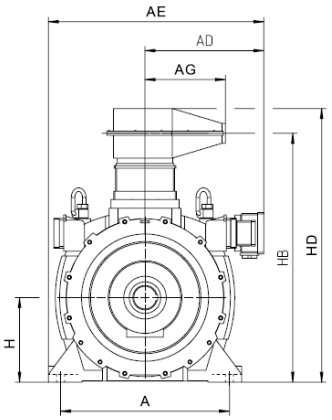

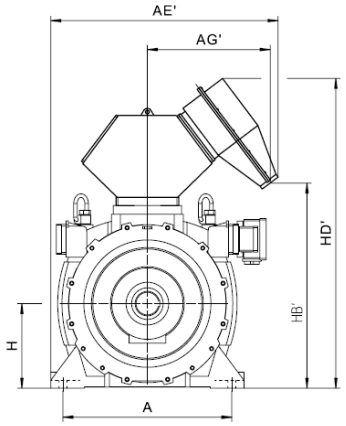

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 402-2AC00-4A.0	3800	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 402-2AC00-4C.0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 404-2AC00-4A.0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 404-2AC00-4C.0	4000	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 406-2AC00-4A.0	4100	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 406-2AC00-4C.0	4200	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 452-2AC00-4A.0	4800	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 452-2AC00-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 454-2AC00-4A.0	5000	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 454-2AC00-4C.0	5200	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 456-2AC00-4A.0	5300	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 456-2AC00-4C.0	5500	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 502-2AC00-4C.0	6500	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 502-2AC00-4A.0	6400	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 504-2AC00-4A.0	6700	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 504-2AC00-4C.0	6800	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 506-2AC00-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 506-2AC00-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 564-2AC00-4C.0	8800	1120	684	831	1319	1466	371	719	1400	335	120	165	560	1682	1447	1847	2031	2628	225
1NB1 566-2AC00-4C.0	9200	1120	684	831	1319	1466	371	719	1400	335	120	165	560	1682	1447	1847	2031	2628	225
4-pole																			
1NB1 404-4AC00-4A.0	4000	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160

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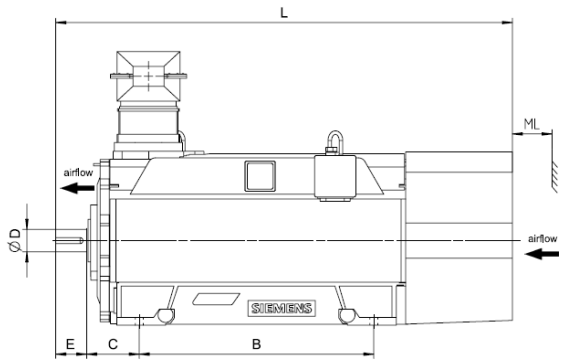

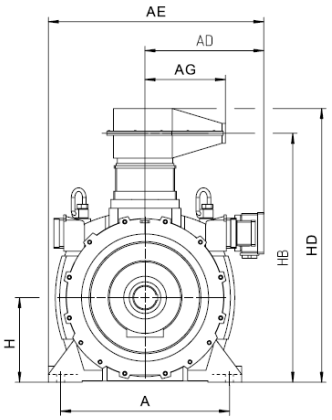

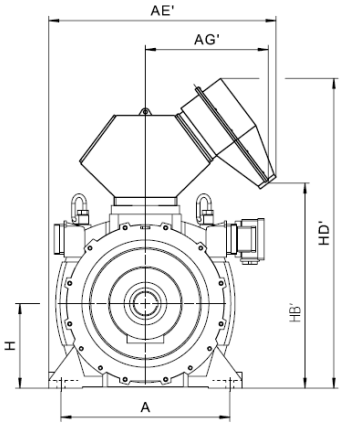

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 404-4AC00-4C.0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-4AC00-4A.0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-4AC00-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-4AC00-4A.0	4900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-4AC00-4C.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-4AC00-4A.0	5200	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-4AC00-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-4AC00-4C.0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-4AC00-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 502-4AC00-4C.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-4AC00-4A.0	6400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-4AC00-4C.0	7100	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-4AC00-4A.0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-4AC00-4A.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-4AC00-4C.0	7500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-4AC00-4A.0	8600	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 562-4AC00-4C.0	8900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-4AC00-4A.0	9100	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-4AC00-4C.0	9500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-4AC00-4A.0	9600	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-4AC00-4C.0	10000	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
6-pole																			
1NB1 404-6AC00-4A.0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160

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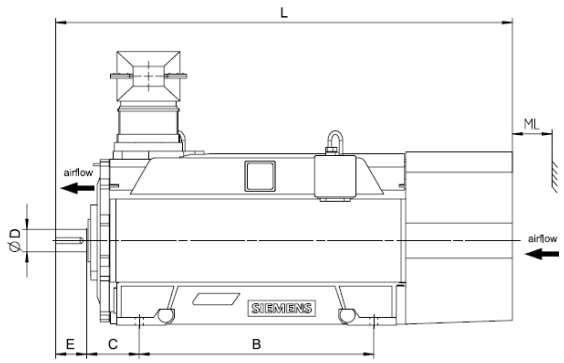

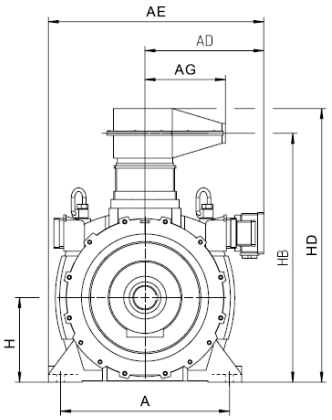

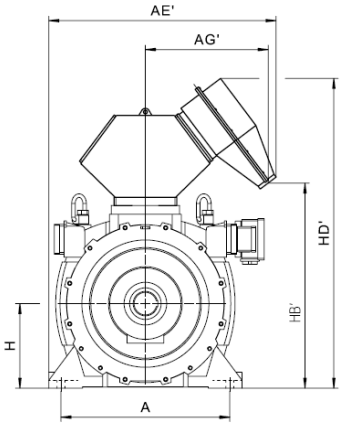

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 404-6AC00-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-6AC00-4A.0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-6AC00-4C.0	4600	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-6AC00-4A.0	4900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-6AC00-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-6AC00-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-6AC00-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-6AC00-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-6AC00-4C.0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 500-6AC00-4C.0	6500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 500-6AC00-4A.0	6300	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-6AC00-4A.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-6AC00-4C.0	6900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-6AC00-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-6AC00-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-6AC00-4C.0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-6AC00-4A.0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-6AC00-4C.0	9200	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-6AC00-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-6AC00-4C.0	10500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
8-pole																			
1NB1 404-8AC00-4A.0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 404-8AC00-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160

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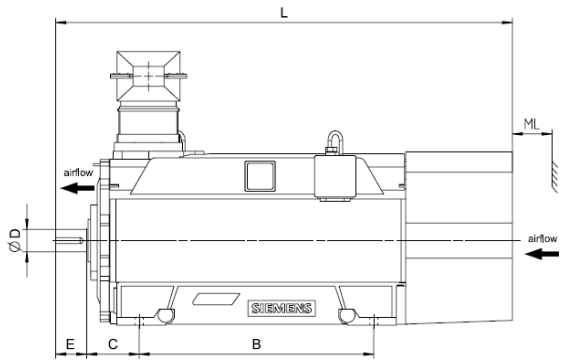

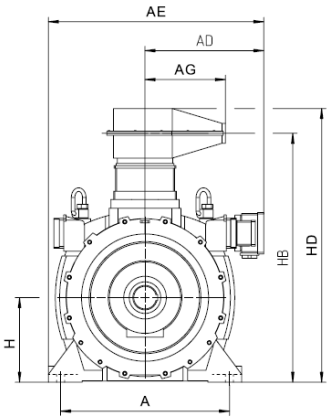

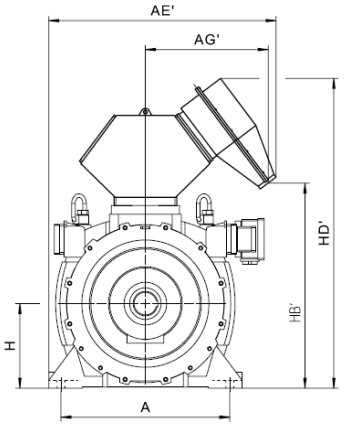

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 406-8AC00-4A.0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-8AC00-4C.0	4500	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-8AC00-4A.0	4800	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-8AC00-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-8AC00-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-8AC00-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-8AC00-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-8AC00-4C.0	5600	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 502-8AC00-4C.0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-8AC00-4A.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-8AC00-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-8AC00-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-8AC00-4A.0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-8AC00-4C.0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-8AC00-4C.0	9300	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-8AC00-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-8AC00-4C.0	10500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225

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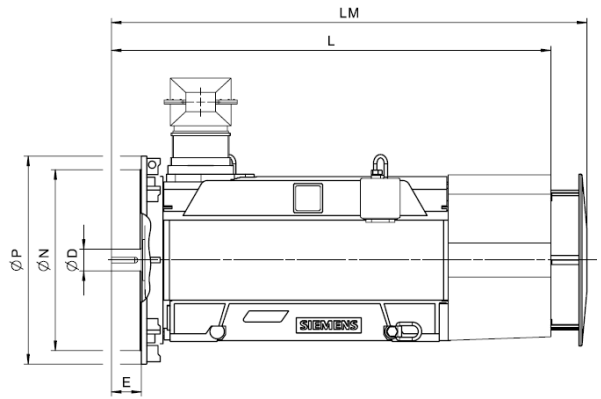

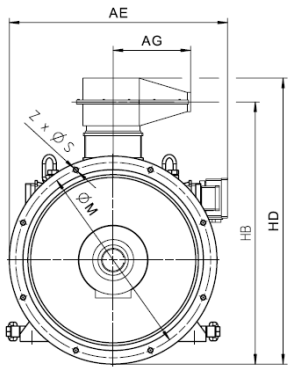

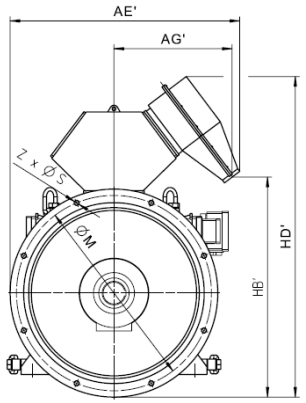

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
2-pole													
1NB1 402-2AC04-4AA0	4000	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 402-2AC04-4CA0	4000	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 404-2AC04-4AA0	4100	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 404-2AC04-4CA0	4200	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 406-2AC04-4AA0	4300	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 406-2AC04-4CA0	4400	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
4-pole													
1NB1 404-4AC04-4AA0	4200	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-4AC04-4CA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-4AC04-4AA0	4400	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-4AC04-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-4AC04-4AA0	5200	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-4AC04-4CA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-4AC04-4AA0	5400	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-4AC04-4CA0	5600	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-4AC04-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-4AC04-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 502-4AC04-4CA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-4AC04-4AA0	6700	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-4AC04-4CA0	7300	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-4AC04-4AA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-4AC04-4AA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16

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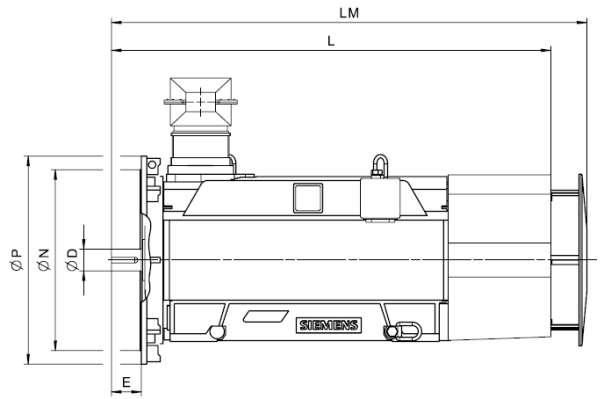

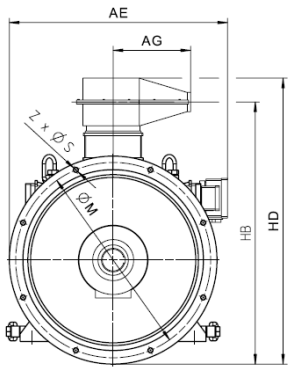

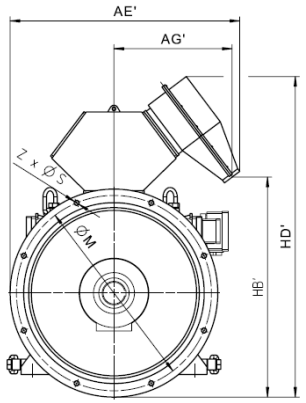

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 506-4AC04-4CA0	7800	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-4AC04-4AA0	9000	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 562-4AC04-4CA0	9300	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-4AC04-4AA0	9500	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-4AC04-4CA0	9800	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-4AC04-4AA0	10000	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-4AC04-4CA0	10300	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
6-pole													
1NB1 404-6AC04-4AA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-6AC04-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-6AC04-4AA0	4600	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-6AC04-4CA0	4800	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-6AC04-4AA0	5100	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-6AC04-4CA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-6AC04-4AA0	5400	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-6AC04-4CA0	5500	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-6AC04-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-6AC04-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 500-6AC04-4CA0	6800	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 500-6AC04-4AA0	6600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-6AC04-4AA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-6AC04-4CA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-6AC04-4CA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16

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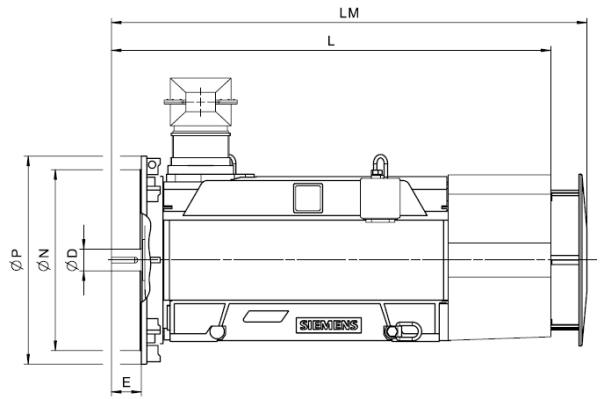

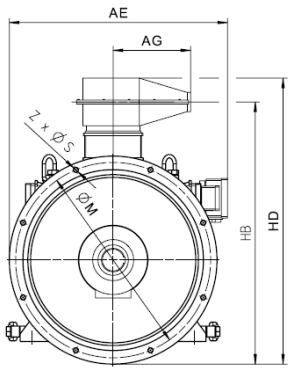

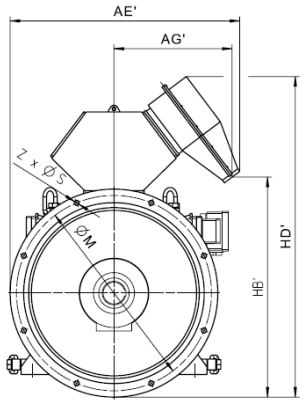

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 504-6AC04-4AA0	7300	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-6AC04-4CA0	7900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-6AC04-4AA0	7700	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-6AC04-4CA0	9600	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-6AC04-4CA0	10200	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-6AC04-4CA0	10900	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
8-pole													
1NB1 404-8AC04-4AA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-8AC04-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-8AC04-4AA0	4600	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-8AC04-4CA0	4700	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-8AC04-4AA0	5100	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-8AC04-4CA0	5200	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-8AC04-4AA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-8AC04-4CA0	5500	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-8AC04-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-8AC04-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 502-8AC04-4CA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-8AC04-4AA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-8AC04-4AA0	7200	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-8AC04-4CA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-8AC04-4AA0	7600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-8AC04-4CA0	7900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16

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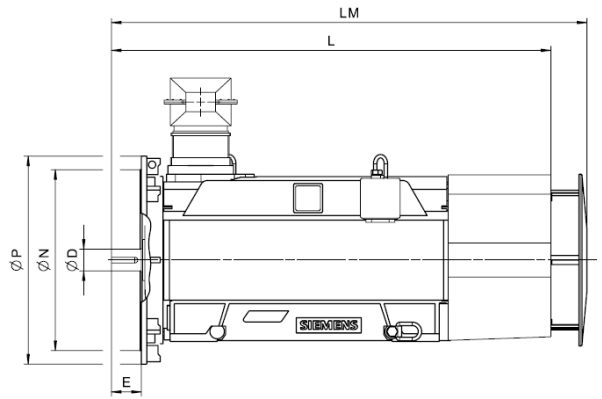

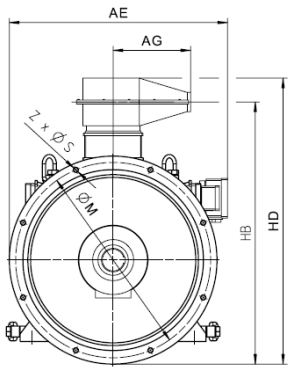

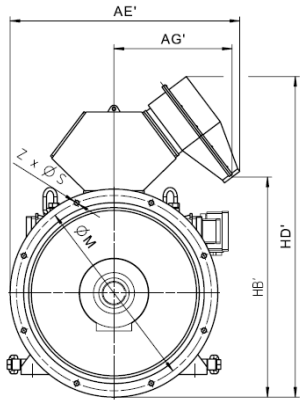

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 562-8AC04-4CA0	9700	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-8AC04-4CA0	10200	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-8AC04-4CA0	10800	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - Square-law torque drive																						
880	780	**1NB1 402-2AC10-4A.0**	3580	96.5	0.93	820	2347	3.40	10.0	3600	665	3285	96.7	0.91	445	2868	96.4	0.87	220	2273	95.8	0.80
850	750	**1NB1 402-2AC10-4C.0**	3581	96.4	0.92	800	2267	3.40	12.3	3600	645	3286	96.6	0.90	430	2869	96.1	0.87	215	2273	95.3	0.79
900	790	**1NB1 404-2AC10-4A.0**	3581	96.6	0.94	830	2400	3.90	11.0	3600	680	3285	96.7	0.92	455	2869	96.3	0.89	225	2273	95.7	0.82
880	780	**1NB1 404-2AC10-4C.0**	3582	96.5	0.94	810	2346	3.90	13.5	3600	665	3286	96.6	0.92	445	2869	96.1	0.88	220	2273	95.2	0.81
950	840	**1NB1 406-2AC10-4A.0**	3582	96.6	0.95	870	2533	4.10	12.2	3600	720	3286	96.8	0.93	480	2869	96.3	0.89	240	2273	95.6	0.83
910	800	**1NB1 406-2AC10-4C.0**	3583	96.5	0.94	840	2425	4.20	14.9	3600	690	3287	96.6	0.92	460	2870	96.1	0.88	230	2274	95.1	0.81
1000	880	**1NB1 452-2AC10-4C.0**	3585	96.8	0.93	930	2664	3.00	17.4	3600	755	3289	97.0	0.92	505	2872	96.6	0.89	250	2275	96.1	0.83
1100	970	**1NB1 454-2AC10-4C.0**	3586	96.9	0.94	1020	2929	3.20	19.3	3600	835	3289	97.0	0.92	555	2872	96.7	0.90	275	2275	96.1	0.84
1200	1060	**1NB1 456-2AC10-4C.0**	3584	96.9	0.94	1100	3197	2.80	21.3	3600	910	3288	97.1	0.94	605	2871	96.8	0.92	300	2274	96.4	0.88
1400	1230	**1NB1 502-2AC10-4CC0**	3586	96.5	0.90	1340	3728	3.00	26.8	3600	1060	3290	96.6	0.90	705	2872	96.1	0.87	355	2275	95.1	0.81
1550	1370	**1NB1 504-2AC10-4CC0**	3586	96.6	0.91	1480	4128	3.00	29.8	3600	1175	3289	96.8	0.91	785	2872	96.2	0.89	390	2275	95.2	0.84
1800	1590	**1NB1 506-2AC10-4CC0**	3589	96.9	0.91	1700	4789	3.60	33.5	3600	1365	3291	97.0	0.90	910	2873	96.2	0.87	455	2276	94.9	0.80
1800	1590	**1NB1 564-2AC10-4CC0**	3590	96.7	0.91	1720	4788	2.90	49.5	3600	1365	3292	96.8	0.91	910	2874	96.1	0.89	455	2276	95.1	0.84
2050	1810	**1NB1 566-2AC10-4CC0**	3592	96.8	0.92	1920	5450	3.50	55.3	3600	1550	3293	96.9	0.90	1035	2875	96.2	0.88	515	2277	95.1	0.81
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - Square-law torque drive																						
900	790	**1NB1 404-4AC10-4A.0**	1791	96.4	0.89	880	4799	3.30	15.6	2600	680	1643	96.6	0.87	455	1435	95.5	0.83	225	1137	94.0	0.73
910	800	**1NB1 404-4AC10-4C.0**	1790	96.5	0.89	890	4855	2.90	19.8	2600	690	1642	96.7	0.87	460	1434	96.0	0.84	230	1136	94.8	0.75
950	840	**1NB1 406-4AC10-4A.0**	1792	96.5	0.89	930	5062	3.80	17.4	2600	720	1644	96.6	0.86	480	1435	95.4	0.82	240	1137	93.5	0.70
950	840	**1NB1 406-4AC10-4C.0**	1791	96.6	0.89	920	5065	3.30	22.1	2600	720	1643	96.8	0.86	480	1435	95.8	0.82	240	1137	94.4	0.72
1120	990	**1NB1 452-4AC10-4A.0**	1790	96.7	0.90	1080	5975	2.80	24.0	2400	850	1643	96.9	0.88	565	1435	96.2	0.85	280	1137	95.3	0.78
1120	990	**1NB1 452-4AC10-4C.0**	1790	96.6	0.89	1100	5975	2.60	30.9	2400	850	1643	96.8	0.88	565	1434	96.2	0.84	280	1137	95.3	0.77
1260	1110	**1NB1 454-4AC10-4A.0**	1792	96.8	0.90	1220	6714	3.40	26.4	2400	955	1644	97.0	0.87	635	1435	96.1	0.83	315	1137	94.8	0.74
1250	1100	**1NB1 454-4AC10-4C.0**	1792	96.8	0.89	1220	6661	3.00	33.9	2400	945	1644	96.9	0.87	630	1435	96.1	0.83	315	1137	95.0	0.73
1360	1200	**1NB1 456-4AC10-4A.0**	1792	97.0	0.90	1300	7247	3.50	30.5	2400	1030	1644	97.1	0.88	685	1435	96.2	0.84	345	1137	95.0	0.75
1350	1190	**1NB1 456-4AC10-4C.0**	1792	96.9	0.90	1300	7194	3.20	39.0	2400	1025	1644	97.1	0.87	680	1436	96.2	0.83	340	1137	95.1	0.74
1400	1230	**1NB1 502-4AC10-4A.0**	1790	96.1	0.87	1400	7469	2.70	28.4	2200	1060	1643	96.3	0.86	710	1435	95.7	0.83	355	1137	94.6	0.75
1400	1230	**1NB1 502-4AC10-4C.0**	1791	96.2	0.86	1420	7465	2.10	37.3	2200	1060	1643	96.4	0.85	705	1435	95.9	0.83	355	1137	95.0	0.76
1550	1370	**1NB1 504-4AC10-4A.0**	1790	96.2	0.89	1520	8269	2.70	32.5	2200	1175	1643	96.4	0.88	785	1434	95.8	0.85	390	1137	94.6	0.78
1550	1370	**1NB1 504-4AC10-4C.0**	1791	96.3	0.87	1540	8264	2.20	42.4	2200	1175	1643	96.5	0.87	785	1435	96.0	0.85	390	1137	95.0	0.79
1800	1590	**1NB1 506-4AC10-4A.0**	1792	96.5	0.89	1760	9592	3.10	37.0	2200	1365	1644	96.7	0.87	910	1435	95.8	0.83	455	1137	94.5	0.75
1800	1590	**1NB1 506-4AC10-4C.0**	1792	96.6	0.87	1800	9592	2.40	48.0	2200	1365	1644	96.8	0.86	910	1435	96.1	0.83	455	1137	95.0	0.76
1870	1650	**1NB1 562-4AC10-4C.0**	1792	96.4	0.88	1840	9965	2.20	72.4	2000	1420	1644	96.5	0.87	945	1435	95.9	0.85	470	1137	94.9	0.79
1870	1650	**1NB1 562-4AC10-4A.0**	1792	96.2	0.88	1840	9965	2.50	54.5	2000	1420	1644	96.4	0.87	945	1436	95.7	0.85	470	1137	94.7	0.78
2100	1850	**1NB1 564-4AC10-4A.0**	1793	96.4	0.88	2050	11184	2.70	59.9	2000	1590	1645	96.5	0.87	1060	1436	95.9	0.84	530	1138	94.8	0.76

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SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2100	1850	**1NB1 564-4AC10-4C.0**	1793	96.6	0.88	2050	11184	2.40	79.3	2000	1590	1645	96.7	0.87	1060	1436	96.1	0.84	530	1138	95.1	0.77
2170	1910	**1NB1 566-4AC10-4A.0**	1793	96.5	0.89	2100	11557	2.70	66.6	2000	1645	1645	96.6	0.88	1095	1436	96.0	0.86	545	1137	95.1	0.79
2200	1940	**1NB1 566-4AC10-4C.0**	1793	96.6	0.89	2150	11717	2.30	88.0	2000	1670	1644	96.8	0.88	1110	1436	96.2	0.86	555	1137	95.3	0.80
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - Square-law torque drive																						
700	620	**1NB1 404-6AC10-4A.0**	1195	96.2	0.88	690	5594	3.30	25.9	2400	530	1096	96.5	0.85	355	957	94.9	0.81	175	758	92.6	0.71
710	630	**1NB1 404-6AC10-4C.0**	1194	96.4	0.87	710	5678	2.80	33.3	2400	540	1095	96.7	0.86	360	956	95.6	0.82	180	758	94.1	0.73
730	640	**1NB1 406-6AC10-4A.0**	1196	96.3	0.87	730	5829	3.80	29.6	2400	555	1097	96.5	0.84	370	957	94.6	0.79	185	758	92.0	0.66
770	680	**1NB1 406-6AC10-4C.0**	1194	96.5	0.87	770	6158	3.10	38.1	2400	585	1096	96.7	0.85	390	957	95.6	0.81	195	758	93.9	0.71
900	790	**1NB1 452-6AC10-4A.0**	1193	96.4	0.85	920	7204	2.70	34.8	2200	680	1095	96.5	0.84	455	956	95.6	0.81	225	758	94.3	0.71
900	790	**1NB1 452-6AC10-4C.0**	1192	96.5	0.85	920	7210	2.40	43.4	2200	680	1094	96.7	0.84	455	955	96.0	0.82	225	757	95.0	0.74
1000	880	**1NB1 454-6AC10-4A.0**	1194	96.5	0.85	1020	7998	3.30	39.5	2200	760	1096	96.5	0.82	505	957	95.3	0.77	250	758	93.5	0.64
1050	930	**1NB1 454-6AC10-4C.0**	1193	96.7	0.85	1060	8405	2.70	49.1	2200	795	1095	96.8	0.83	530	956	96.0	0.80	265	758	94.7	0.69
1070	940	**1NB1 456-6AC10-4A.0**	1195	96.6	0.85	1100	8550	3.50	45.8	2200	810	1096	96.7	0.82	540	957	95.4	0.77	270	758	93.5	0.64
1100	970	**1NB1 456-6AC10-4C.0**	1194	96.8	0.85	1120	8798	3.00	56.7	2200	835	1096	96.9	0.83	555	957	96.0	0.79	275	758	94.6	0.68
1250	1100	**1NB1 500-6AC10-4C.0**	1193	96.5	0.86	1260	10006	1.90	59.8	2100	950	1095	96.7	0.86	630	956	96.4	0.84	315	758	95.5	0.77
1150	1010	**1NB1 500-6AC10-4A.0**	1192	96.3	0.83	1200	9213	2.10	46.5	2100	870	1094	96.6	0.83	580	955	96.1	0.81	290	757	95.0	0.73
1360	1200	**1NB1 502-6AC10-4A.0**	1192	96.4	0.83	1420	10895	2.00	52.7	2100	1030	1094	96.7	0.83	690	955	96.2	0.82	345	757	95.1	0.75
1450	1280	**1NB1 502-6AC10-4C.0**	1193	96.6	0.86	1460	11606	1.80	67.5	2100	1100	1095	96.9	0.86	735	956	96.5	0.85	365	758	95.6	0.78
1500	1320	**1NB1 504-6AC10-4A.0**	1193	96.6	0.84	1540	12007	2.40	59.7	2100	1135	1095	96.8	0.83	760	956	96.1	0.81	380	758	94.7	0.71
1500	1320	**1NB1 504-6AC10-4C.0**	1195	96.8	0.86	1500	11987	2.30	76.1	2100	1135	1096	97.0	0.85	755	957	96.4	0.82	380	758	95.2	0.72
1550	1370	**1NB1 506-6AC10-4A.0**	1193	96.6	0.86	1560	12407	2.50	67.3	2100	1175	1095	96.8	0.85	785	956	96.1	0.82	390	758	94.6	0.73
1600	1410	**1NB1 506-6AC10-4C.0**	1195	96.8	0.87	1580	12786	2.20	85.6	2100	1210	1096	97.0	0.86	810	957	96.4	0.84	405	758	95.1	0.75
1900	1670	**1NB1 562-6AC10-4C.0**	1195	97.0	0.87	1880	15183	2.50	120.2	2000	1440	1096	97.2	0.87	960	957	96.4	0.85	480	758	95.0	0.75
2050	1810	**1NB1 564-6AC10-4C.0**	1196	97.1	0.87	2050	16368	3.00	136.7	2000	1555	1097	97.3	0.85	1035	957	96.2	0.82	515	758	94.4	0.71
2270	2000	**1NB1 566-6AC10-4C.0**	1195	97.2	0.88	2200	18140	2.60	151.8	2000	1720	1096	97.4	0.87	1145	957	96.4	0.85	570	758	94.9	0.76
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - Square-law torque drive																						
560	490	**1NB1 404-8AC10-4A.0**	894	96.0	0.84	580	5982	2.90	26.7	2400	425	820	96.0	0.81	285	716	94.6	0.76	140	568	92.2	0.64
560	490	**1NB1 404-8AC10-4C.0**	892	95.8	0.82	600	5995	2.40	32.9	2400	425	819	96.0	0.80	285	716	94.9	0.76	140	567	93.0	0.65
600	530	**1NB1 406-8AC10-4A.0**	894	95.9	0.84	620	6409	3.30	30.6	2400	455	821	95.9	0.79	305	717	94.1	0.73	150	568	91.2	0.60
590	520	**1NB1 406-8AC10-4C.0**	894	95.9	0.82	630	6302	2.80	37.6	2400	445	820	96.0	0.79	300	716	94.6	0.73	150	568	92.2	0.61
700	620	**1NB1 452-8AC10-4A.0**	893	95.8	0.79	770	7485	2.20	35.1	2200	530	820	96.0	0.78	355	716	94.9	0.75	175	568	93.1	0.65
700	620	**1NB1 452-8AC10-4C.0**	891	95.7	0.78	780	7502	2.30	43.0	2200	530	818	96.0	0.78	355	715	95.1	0.76	175	567	93.6	0.66
850	750	**1NB1 454-8AC10-4A.0**	892	95.8	0.80	930	9100	2.10	39.9	2200	645	819	96.1	0.79	430	716	95.1	0.77	215	567	93.6	0.68
810	710	**1NB1 454-8AC10-4C.0**	891	95.8	0.80	880	8681	2.20	48.8	2200	615	818	96.1	0.79	410	715	95.2	0.77	205	567	93.9	0.68
950	840	**1NB1 456-8AC10-4C.0**	893	96.2	0.79	1040	10159	2.80	56.4	2200	720	820	96.4	0.76	480	716	95.2	0.72	240	568	93.3	0.60

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SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque

Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
920	810	**1NB1 456-8AC10-4A.0**	895	96.1	0.79	1020	9816	2.80	46.4	2200	695	821	96.2	0.75	465	717	94.6	0.70	230	568	92.2	0.56
1000	880	**1NB1 502-8AC10-4C.0**	893	95.8	0.85	1020	10694	1.90	67.0	2100	760	820	95.9	0.84	505	716	95.5	0.81	255	568	94.3	0.73
910	800	**1NB1 502-8AC10-4A.0**	893	95.9	0.80	990	9731	1.80	52.0	2100	690	820	96.0	0.79	460	716	95.7	0.77	230	568	94.6	0.69
1060	930	**1NB1 504-8AC10-4A.0**	893	96.0	0.81	1140	11335	1.80	58.8	2100	805	820	96.1	0.80	535	716	95.7	0.77	270	568	94.4	0.69
1100	970	**1NB1 504-8AC10-4C.0**	894	95.9	0.85	1120	11750	2.00	75.6	2100	835	820	96.0	0.83	555	716	95.4	0.80	280	568	94.0	0.71
1110	980	**1NB1 506-8AC10-4A.0**	894	96.1	0.82	1180	11857	1.90	66.4	2100	840	820	96.1	0.81	560	716	95.7	0.78	280	568	94.2	0.69
1120	990	**1NB1 506-8AC10-4C.0**	894	96.0	0.85	1140	11963	2.20	85.1	2100	850	821	96.0	0.83	565	717	95.3	0.80	285	568	93.6	0.70
1430	1260	**1NB1 562-8AC10-4C.0**	894	96.5	0.85	1460	15275	2.00	119.6	2000	1085	821	96.8	0.84	725	717	96.2	0.82	360	568	94.9	0.73
1480	1300	**1NB1 564-8AC10-4C.0**	895	96.6	0.85	1500	15791	2.10	136.3	2000	1120	821	96.8	0.84	750	717	96.1	0.82	375	568	94.6	0.72
1700	1500	**1NB1 566-8AC10-4C.0**	895	96.7	0.85	1740	18138	2.20	151.7	2000	1290	821	96.9	0.84	860	717	96.0	0.81	430	568	94.3	0.71

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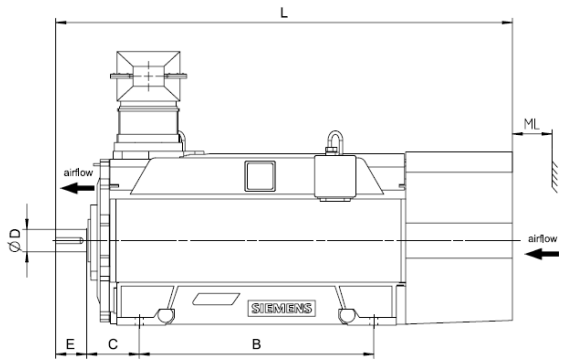

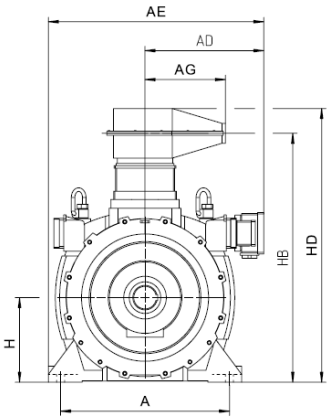

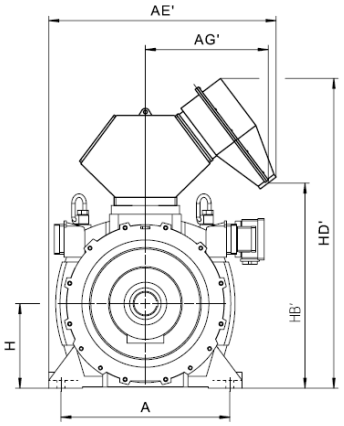

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 402-2AC10-4A.0	3800	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 402-2AC10-4C.0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 404-2AC10-4A.0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 404-2AC10-4C.0	4000	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 406-2AC10-4A.0	4100	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 406-2AC10-4C.0	4200	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 452-2AC10-4C.0	4900	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 454-2AC10-4C.0	5100	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 456-2AC10-4C.0	5400	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 502-2AC10-4CC0	6700	1000	629	831	1194	1396	371	719	1320	560	110	165	500	1557	1322	1723	1907	2782	200
1NB1 504-2AC10-4CC0	7100	1000	629	831	1194	1396	371	719	1320	560	110	165	500	1557	1322	1723	1907	2782	200
1NB1 506-2AC10-4CC0	7500	1000	629	831	1194	1396	371	719	1320	560	110	165	500	1557	1322	1723	1907	2782	200
1NB1 564-2AC10-4CC0	8800	1120	684	831	1319	1466	371	719	1400	600	120	165	560	1682	1447	1847	2031	2913	225
1NB1 566-2AC10-4CC0	9300	1120	684	831	1319	1466	371	719	1400	600	120	165	560	1682	1447	1847	2031	2913	225
4-pole																			
1NB1 404-4AC10-4A.0	4000	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 404-4AC10-4C.0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-4AC10-4A.0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-4AC10-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-4AC10-4A.0	4900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-4AC10-4C.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-4AC10-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180

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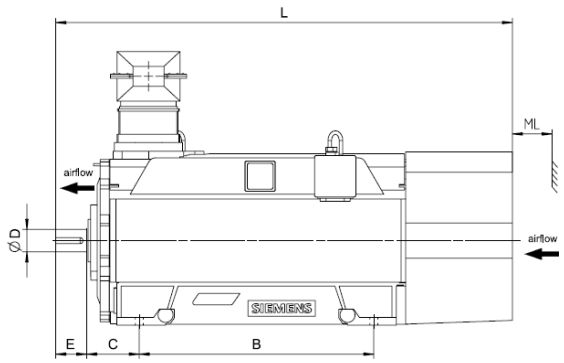

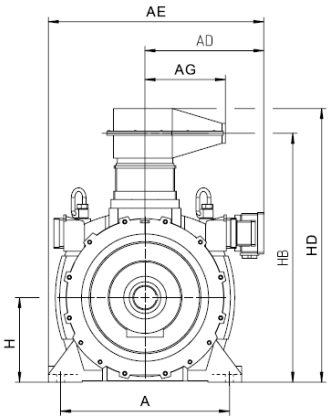

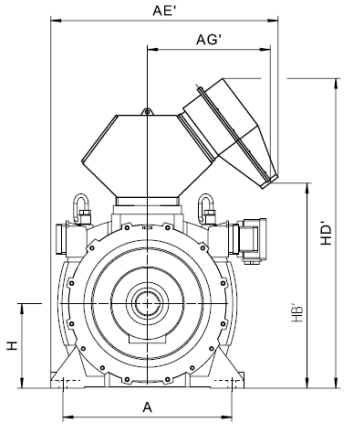

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 454-4AC10-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-4AC10-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-4AC10-4C.0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 502-4AC10-4A.0	6400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-4AC10-4C.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-4AC10-4A.0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-4AC10-4C.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-4AC10-4A.0	7300	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-4AC10-4C.0	7500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-4AC10-4C.0	9000	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 562-4AC10-4A.0	8700	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-4AC10-4A.0	9100	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-4AC10-4C.0	9400	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-4AC10-4A.0	9500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-4AC10-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
6-pole																			
1NB1 404-6AC10-4A.0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 404-6AC10-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-6AC10-4A.0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-6AC10-4C.0	4600	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-6AC10-4A.0	4900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-6AC10-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-6AC10-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180

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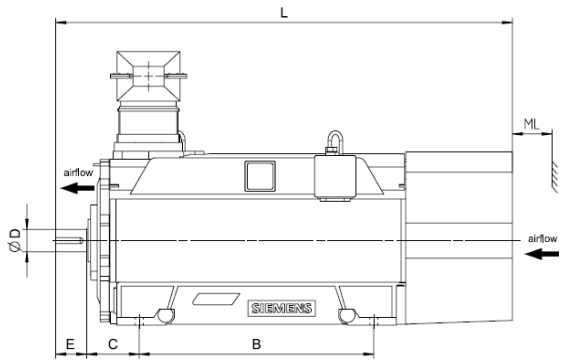

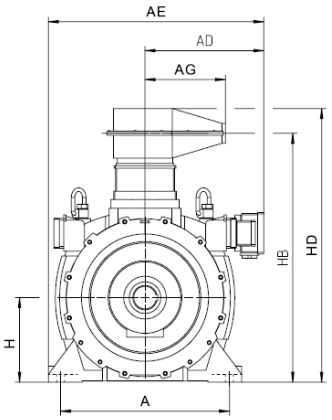

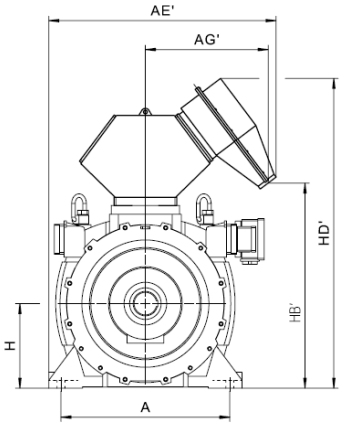

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 454-6AC10-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-6AC10-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-6AC10-4C.0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 500-6AC10-4C.0	6500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 500-6AC10-4A.0	6300	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-6AC10-4A.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-6AC10-4C.0	6900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-6AC10-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-6AC10-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-6AC10-4A.0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-6AC10-4C.0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-6AC10-4C.0	9200	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-6AC10-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-6AC10-4C.0	10500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
8-pole																			
1NB1 404-8AC10-4A.0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 404-8AC10-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-8AC10-4A.0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-8AC10-4C.0	4500	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-8AC10-4A.0	4800	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-8AC10-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-8AC10-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-8AC10-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180

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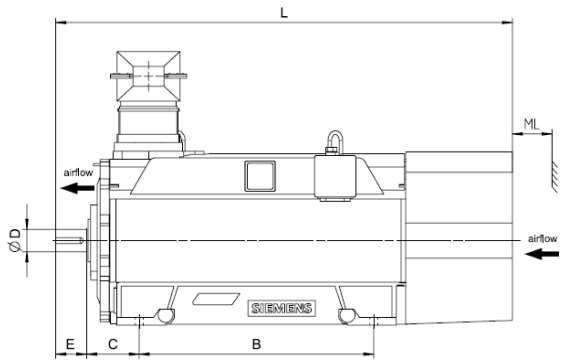

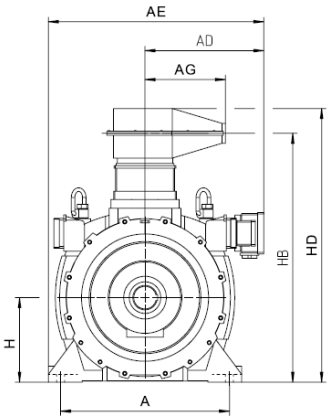

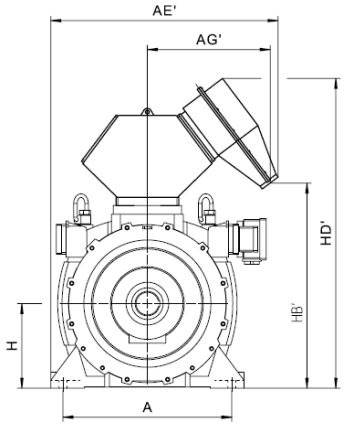

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 456-8AC10-4C.0	5600	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-8AC10-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 502-8AC10-4C.0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-8AC10-4A.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-8AC10-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-8AC10-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-8AC10-4A.0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-8AC10-4C.0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-8AC10-4C.0	9300	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-8AC10-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-8AC10-4C.0	10500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225

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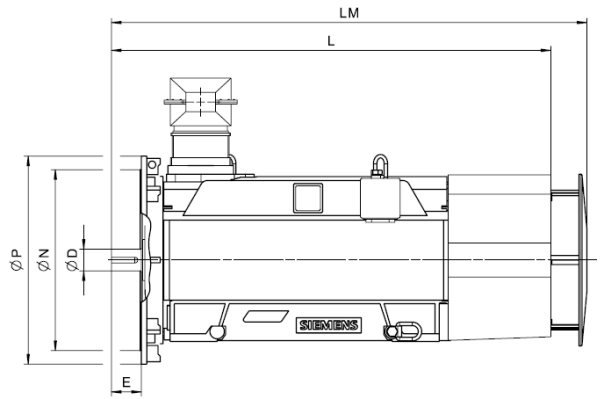

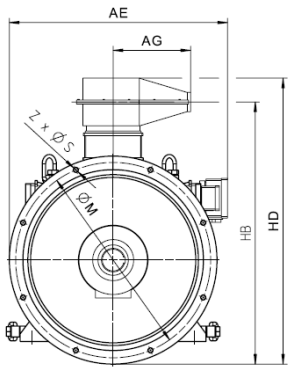

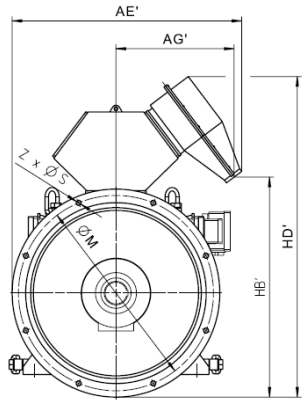

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NB1 404-4AC14-4AA0	4200	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-4AC14-4CA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-4AC14-4AA0	4400	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-4AC14-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-4AC14-4AA0	5200	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-4AC14-4CA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-4AC14-4AA0	5400	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-4AC14-4CA0	5600	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-4AC14-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-4AC14-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 502-4AC14-4AA0	6700	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-4AC14-4CA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-4AC14-4AA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-4AC14-4CA0	7300	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-4AC14-4AA0	7600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-4AC14-4CA0	7800	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-4AC14-4CA0	9400	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 562-4AC14-4AA0	9100	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-4AC14-4AA0	9400	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-4AC14-4CA0	9700	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-4AC14-4AA0	9900	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-4AC14-4CA0	10200	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16

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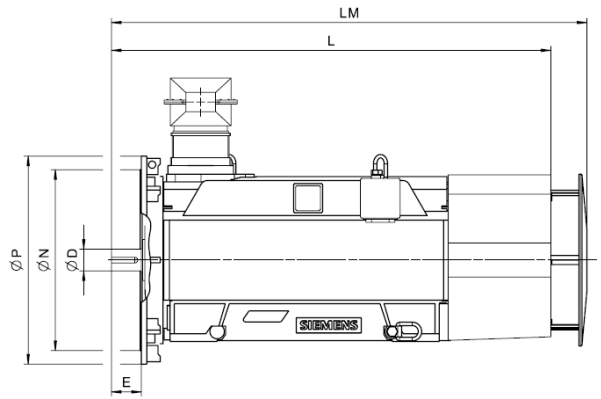

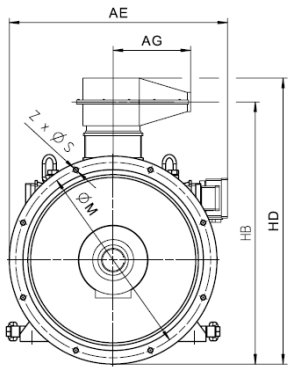

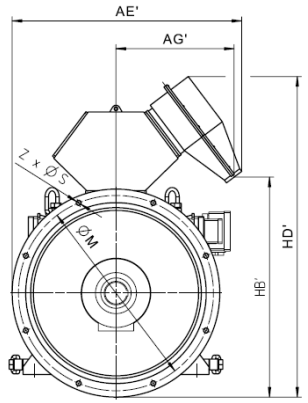

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
6-pole													
1NB1 404-6AC14-4AA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-6AC14-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-6AC14-4AA0	4600	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-6AC14-4CA0	4800	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-6AC14-4AA0	5100	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-6AC14-4CA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-6AC14-4AA0	5400	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-6AC14-4CA0	5500	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-6AC14-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-6AC14-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 500-6AC14-4CA0	6800	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 500-6AC14-4AA0	6600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-6AC14-4AA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-6AC14-4CA0	7200	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-6AC14-4AA0	7300	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-6AC14-4CA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-6AC14-4AA0	7600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-6AC14-4CA0	7900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-6AC14-4CA0	9600	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-6AC14-4CA0	10300	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-6AC14-4CA0	10800	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
8-pole													

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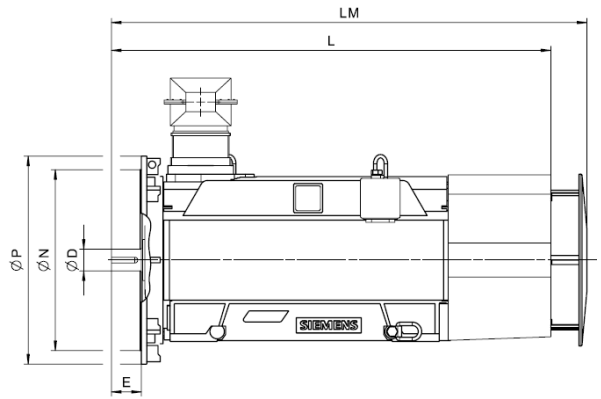

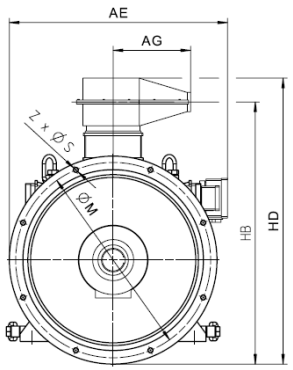

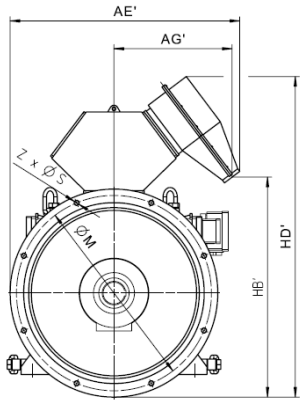

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 404-8AC14-4AA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-8AC14-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-8AC14-4AA0	4600	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-8AC14-4CA0	4700	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-8AC14-4AA0	5100	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-8AC14-4CA0	5200	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-8AC14-4AA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-8AC14-4CA0	5500	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-8AC14-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-8AC14-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 502-8AC14-4CA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-8AC14-4AA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-8AC14-4AA0	7200	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-8AC14-4CA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-8AC14-4AA0	7700	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-8AC14-4CA0	7900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-8AC14-4CA0	9600	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-8AC14-4CA0	10200	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-8AC14-4CA0	10800	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n ^{2}	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	830	**1NB1 452-2AR40-4A.0**	2985	96.8	0.90	132	2655	2.80	12.7	3600	620	2687	96.8	0.89	420	2390	96.9	0.87	205	1854	96.7	0.84
	810	**1NB1 452-2AR40-4C.0**	2983	96.6	0.89	130	2593	2.50	16.5	3600	605	2684	96.6	0.89	410	2388	96.7	0.87	200	1853	96.5	0.83
	910	**1NB1 454-2AR40-4A.0**	2988	97.0	0.90	144	2908	3.50	14.2	3600	675	2689	97.0	0.90	460	2392	97.0	0.87	225	1855	96.7	0.82
	900	**1NB1 454-2AR40-4C.0**	2986	96.8	0.90	144	2878	3.00	18.4	3600	670	2687	96.8	0.89	455	2390	96.8	0.87	220	1854	96.5	0.82
	1010	**1NB1 456-2AR40-4A.0**	2989	97.1	0.91	158	3227	3.70	15.7	3600	750	2690	97.1	0.90	510	2392	97.1	0.88	250	1855	96.8	0.82
	1000	**1NB1 456-2AR40-4C.0**	2986	96.9	0.91	158	3198	3.00	20.2	3600	745	2687	97.0	0.90	505	2391	96.9	0.87	245	1854	96.6	0.82
	1200	**1NB1 502-2AR40-4C.0**	2988	96.7	0.89	194	3835	2.90	26.8	3000	895	2689	96.8	0.89	605	2392	96.8	0.87	295	1855	96.6	0.82
	1200	**1NB1 502-2AR40-4A.0**	2987	96.8	0.89	194	3836	3.20	20.9	3000	895	2688	97.0	0.89	605	2391	97.0	0.87	295	1855	96.8	0.82
	1220	**1NB1 504-2AR40-4A.0**	2989	96.9	0.90	194	3898	3.90	23.3	3000	905	2690	97.0	0.89	615	2392	97.0	0.87	300	1855	96.7	0.81
	1220	**1NB1 504-2AR40-4C.0**	2990	96.8	0.90	194	3896	3.40	29.7	3000	905	2691	96.9	0.89	615	2393	96.8	0.87	300	1856	96.5	0.80
	1400	**1NB1 506-2AR40-4A.0**	2989	97.1	0.91	220	4473	3.70	26.4	3000	1040	2690	97.2	0.90	705	2392	97.2	0.88	345	1855	96.9	0.83
	1400	**1NB1 506-2AR40-4C.0**	2990	97.0	0.90	225	4471	3.30	33.3	3000	1040	2690	97.1	0.90	705	2393	97.1	0.88	345	1856	96.7	0.82
	1700	**1NB1 564-2AR40-4C.0**	2991	97.1	0.91	265	5428	2.90	50.0	3000	1265	2692	97.2	0.90	860	2394	97.2	0.89	420	1856	96.9	0.84
	1750	**1NB1 566-2AR40-4C.0**	2992	97.2	0.91	275	5585	3.30	55.2	3000	1300	2693	97.3	0.91	885	2395	97.2	0.89	430	1857	97.0	0.83
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	950	**1NB1 452-4AR40-4A.0**	1492	96.7	0.84	162	6080	3.00	19.6	2400	705	1343	96.7	0.83	480	1195	96.6	0.79	235	927	96.2	0.69
	920	**1NB1 452-4AR40-4C.0**	1492	96.6	0.83	160	5888	2.60	25.2	2400	685	1343	96.7	0.82	465	1195	96.6	0.79	225	927	96.3	0.70
	920	**1NB1 454-4AR40-4A.0**	1494	96.6	0.83	160	5880	3.90	21.5	2400	685	1344	96.7	0.82	465	1196	96.5	0.76	225	927	95.9	0.64
	920	**1NB1 454-4AR40-4C.0**	1494	96.6	0.83	160	5880	3.20	27.6	2400	685	1344	96.7	0.82	465	1196	96.5	0.77	225	927	96.0	0.66
	1050	**1NB1 456-4AR40-4A.0**	1494	96.8	0.85	178	6711	3.70	24.8	2400	780	1344	96.8	0.84	530	1196	96.7	0.79	260	927	96.1	0.68
	1050	**1NB1 456-4AR40-4C.0**	1494	96.8	0.85	178	6711	3.00	31.7	2400	780	1344	96.8	0.83	530	1196	96.7	0.79	260	927	96.2	0.69
	1200	**1NB1 502-4AR40-4C.0**	1493	96.5	0.86	200	7675	2.40	37.3	2200	895	1343	96.6	0.85	605	1195	96.6	0.83	295	927	96.4	0.76
	1200	**1NB1 502-4AR40-4A.0**	1493	96.4	0.87	198	7675	3.00	28.4	2200	895	1343	96.5	0.86	605	1195	96.5	0.83	295	927	96.2	0.74
	1300	**1NB1 504-4AR40-4A.0**	1493	96.6	0.87	215	8315	3.00	32.5	2200	965	1343	96.7	0.87	655	1195	96.7	0.83	320	927	96.4	0.75
	1300	**1NB1 504-4AR40-4C.0**	1493	96.7	0.86	215	8315	2.40	42.4	2200	965	1344	96.8	0.85	655	1195	96.8	0.83	320	927	96.6	0.76
	1450	**1NB1 506-4AR40-4A.0**	1493	96.8	0.88	235	9274	3.30	37.0	2200	1080	1344	96.8	0.87	730	1195	96.8	0.83	360	927	96.5	0.75
	1450	**1NB1 506-4AR40-4C.0**	1494	96.8	0.86	240	9268	2.60	48.0	2200	1080	1344	96.9	0.86	730	1196	96.9	0.83	360	927	96.6	0.76
	1600	**1NB1 560-4AR40-4C.0**	1493	96.7	0.85	270	10234	2.30	64.6	2000	1190	1344	96.8	0.85	810	1196	96.8	0.82	395	927	96.6	0.76
	1650	**1NB1 560-4AR40-4A.0**	1494	96.7	0.86	275	10546	2.60	48.3	2000	1225	1344	96.8	0.85	835	1196	96.7	0.83	405	927	96.5	0.75
	1750	**1NB1 562-4AR40-4C.0**	1494	96.9	0.86	290	11186	2.50	72.4	2000	1305	1345	97.0	0.85	885	1196	97.0	0.82	430	928	96.7	0.74
	1760	**1NB1 562-4AR40-4A.0**	1495	96.9	0.86	295	11242	2.90	54.5	2000	1310	1345	96.9	0.85	890	1196	96.9	0.82	435	928	96.6	0.73
	1920	**1NB1 564-4AR40-4A.0**	1495	97.0	0.87	315	12264	3.20	59.9	2000	1430	1345	97.0	0.86	970	1197	96.9	0.82	475	928	96.6	0.73
	1910	**1NB1 564-4AR40-4C.0**	1495	97.1	0.86	315	12200	2.80	79.3	2000	1420	1345	97.1	0.85	965	1196	97.0	0.82	470	928	96.7	0.73
	2110	**1NB1 566-4AR40-4A.0**	1495	97.1	0.88	345	13478	3.30	66.6	2000	1570	1346	97.2	0.86	1065	1197	97.0	0.82	520	928	96.6	0.73

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SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
	2110	**1NB1 566-4AR40-4C.0**	1495	97.2	0.87	345	13478	2.80	88.0	2000	1570	1345	97.2	0.86	1065	1197	97.1	0.83	520	928	96.8	0.74
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	600	**1NB1 452-6AR40-4A.0**	993	96.2	0.81	106	5770	2.20	28.0	2200	445	894	96.1	0.80	305	796	96.2	0.78	150	617	95.8	0.70
	620	**1NB1 452-6AR40-4C.0**	993	96.3	0.84	106	5962	2.30	36.3	2200	460	894	96.2	0.83	315	795	96.3	0.81	155	617	95.9	0.72
	690	**1NB1 454-6AR40-4A.0**	995	96.3	0.79	126	6622	2.80	31.8	2200	515	895	96.3	0.78	350	797	96.2	0.74	170	618	95.5	0.63
	670	**1NB1 454-6AR40-4C.0**	995	96.4	0.81	120	6430	3.00	41.0	2200	500	896	96.3	0.80	340	797	96.2	0.75	165	618	95.4	0.63
	750	**1NB1 456-6AR40-4A.0**	995	96.4	0.80	134	7198	2.90	36.9	2200	560	896	96.4	0.79	380	797	96.3	0.74	185	618	95.6	0.63
	750	**1NB1 456-6AR40-4C.0**	995	96.5	0.82	132	7198	3.10	47.3	2200	560	896	96.4	0.81	380	797	96.3	0.76	185	618	95.6	0.64
	920	**1NB1 500-6AR40-4C.0**	995	96.5	0.86	154	8830	2.20	59.8	2100	685	895	96.6	0.86	465	796	96.7	0.84	225	618	96.5	0.77
	860	**1NB1 500-6AR40-4A.0**	994	96.3	0.83	150	8262	2.40	46.5	2100	640	894	96.4	0.82	435	796	96.5	0.81	215	617	96.3	0.73
	900	**1NB1 502-6AR40-4A.0**	995	96.4	0.83	156	8638	3.10	52.7	2100	670	895	96.5	0.83	455	797	96.5	0.79	220	618	96.0	0.69
	950	**1NB1 502-6AR40-4C.0**	996	96.5	0.86	158	9108	2.70	67.5	2100	705	896	96.6	0.85	480	797	96.7	0.82	235	618	96.3	0.72
	1000	**1NB1 504-6AR40-4A.0**	995	96.5	0.85	170	9597	2.80	59.7	2100	745	895	96.7	0.84	505	796	96.7	0.82	245	618	96.4	0.73
	1060	**1NB1 504-6AR40-4C.0**	996	96.7	0.86	176	10163	2.60	76.1	2100	790	896	96.8	0.86	535	797	96.9	0.84	260	618	96.6	0.76
	1120	**1NB1 506-6AR40-4A.0**	995	96.7	0.84	192	10749	3.10	67.3	2100	835	896	96.8	0.84	565	797	96.8	0.81	275	618	96.3	0.70
	1200	**1NB1 506-6AR40-4C.0**	996	96.9	0.86	200	11505	2.70	85.6	2100	895	896	97.0	0.86	605	797	97.0	0.83	295	618	96.6	0.74
	1600	**1NB1 562-6AR40-4C.0**	996	97.2	0.87	265	15340	2.80	120.2	2000	1190	896	97.2	0.87	810	797	97.3	0.85	395	618	97.0	0.77
	1700	**1NB1 564-6AR40-4C.0**	996	97.2	0.87	280	16299	2.80	136.7	2000	1265	896	97.3	0.87	860	797	97.3	0.85	420	618	97.0	0.77
	1770	**1NB1 566-6AR40-4C.0**	996	97.3	0.87	290	16970	3.10	151.8	2000	1315	896	97.3	0.87	895	797	97.4	0.84	435	618	97.1	0.75
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	500	**1NB1 452-8AR40-4A.0**	744	95.8	0.77	94	6418	2.10	28.1	2200	375	669	95.8	0.77	255	596	95.8	0.75	125	463	95.3	0.65
	530	**1NB1 452-8AR40-4C.0**	744	95.8	0.80	96	6803	2.10	36.3	2200	395	670	95.8	0.80	270	596	95.8	0.77	130	463	95.3	0.67
	570	**1NB1 454-8AR40-4A.0**	745	95.9	0.76	108	7306	2.60	31.9	2200	425	670	95.9	0.76	290	597	95.7	0.71	140	463	95.0	0.59
	600	**1NB1 454-8AR40-4C.0**	745	96.0	0.79	110	7691	2.60	41.1	2200	445	671	95.9	0.78	305	597	95.8	0.73	150	463	95.0	0.61
	630	**1NB1 456-8AR40-4A.0**	745	96.0	0.79	116	8075	2.40	37.0	2200	470	670	96.0	0.78	320	596	96.0	0.75	155	463	95.5	0.64
	630	**1NB1 456-8AR40-4C.0**	746	96.0	0.78	116	8064	2.80	47.4	2200	470	671	95.9	0.77	320	597	95.7	0.72	155	463	94.9	0.60
	630	**1NB1 502-8AR40-4C.0**	745	95.6	0.85	108	8075	2.20	67.0	2100	470	671	95.7	0.83	320	597	95.7	0.80	155	463	95.1	0.70
	630	**1NB1 502-8AR40-4A.0**	745	95.8	0.81	112	8075	2.10	52.0	2100	470	670	95.8	0.80	320	597	95.9	0.77	155	463	95.4	0.69
	710	**1NB1 504-8AR40-4A.0**	746	96.0	0.80	128	9088	2.60	58.8	2100	530	671	95.9	0.78	360	597	95.9	0.74	175	463	95.1	0.63
	710	**1NB1 504-8AR40-4C.0**	746	95.8	0.83	124	9088	3.00	75.6	2100	530	672	95.8	0.81	360	597	95.7	0.76	175	463	94.8	0.64
	750	**1NB1 506-8AR40-4C.0**	747	95.7	0.81	134	9588	3.40	85.1	2100	560	672	95.6	0.79	380	598	95.5	0.73	185	464	94.4	0.60
	750	**1NB1 506-8AR40-4A.0**	747	96.0	0.78	140	9588	3.10	66.4	2100	560	672	95.9	0.77	380	598	95.8	0.71	185	464	94.8	0.58
	1000	**1NB1 562-8AR40-4C.0**	746	96.7	0.83	172	12801	2.70	119.6	2000	745	671	96.7	0.83	505	597	96.7	0.79	245	463	96.4	0.68
	1120	**1NB1 564-8AR40-4C.0**	747	96.7	0.83	194	14318	3.00	136.3	2000	835	672	96.8	0.82	565	598	96.7	0.78	275	464	96.3	0.66
	1250	**1NB1 566-8AR40-4C.0**	747	96.8	0.82	220	15979	3.20	151.7	2000	930	672	96.8	0.81	630	598	96.7	0.77	310	464	96.2	0.64

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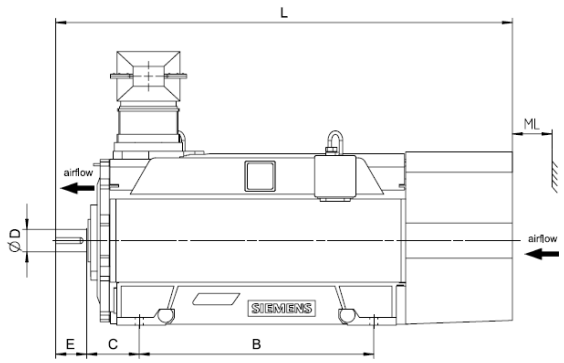

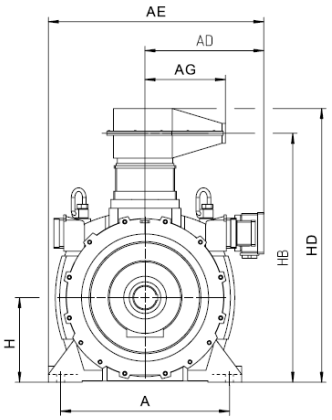

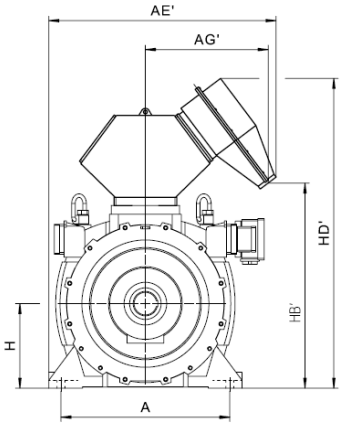

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 452-2AR40-4A.0	4800	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 452-2AR40-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 454-2AR40-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 454-2AR40-4C.0	5200	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 456-2AR40-4A.0	5300	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 456-2AR40-4C.0	5500	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 502-2AR40-4C.0	6600	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 502-2AR40-4A.0	6400	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 504-2AR40-4A.0	6700	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 504-2AR40-4C.0	6900	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 506-2AR40-4A.0	7200	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 506-2AR40-4C.0	7300	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 564-2AR40-4C.0	9000	1120	684	737	1319	1372	525	693	1400	335	120	165	560	1565	1279	1691	1883	2628	225
1NB1 566-2AR40-4C.0	9400	1120	684	737	1319	1372	525	693	1400	335	120	165	560	1565	1279	1691	1883	2628	225
4-pole																			
1NB1 452-4AR40-4A.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-4AR40-4C.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-4AR40-4A.0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-4AR40-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-4AR40-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-4AR40-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 502-4AR40-4C.0	6600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200

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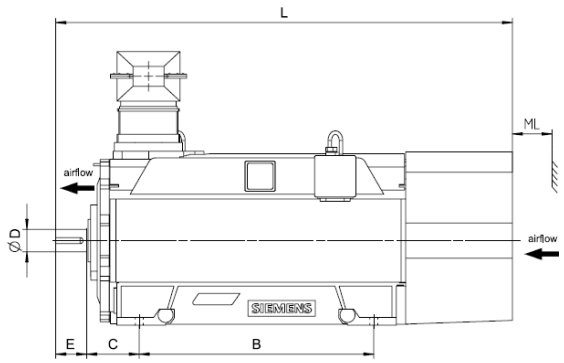

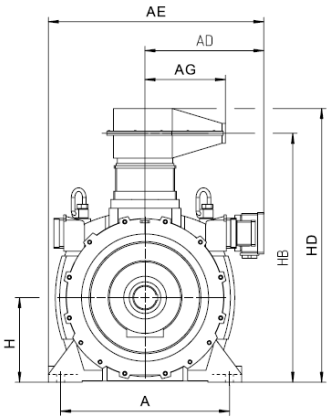

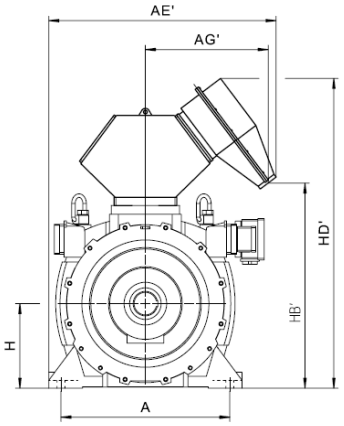

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 502-4AR40-4A.0	6400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-4AR40-4A.0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-4AR40-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-4AR40-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-4AR40-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 560-4AR40-4C.0	8600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 560-4AR40-4A.0	8300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 562-4AR40-4C.0	9100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 562-4AR40-4A.0	8800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-4AR40-4A.0	9100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-4AR40-4C.0	9500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-4AR40-4A.0	9600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-4AR40-4C.0	10000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
6-pole																			
1NB1 452-6AR40-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-6AR40-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-6AR40-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-6AR40-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-6AR40-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-6AR40-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 500-6AR40-4C.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 500-6AR40-4A.0	6300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-6AR40-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200

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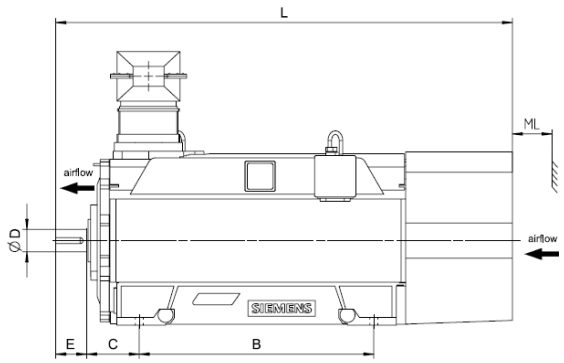

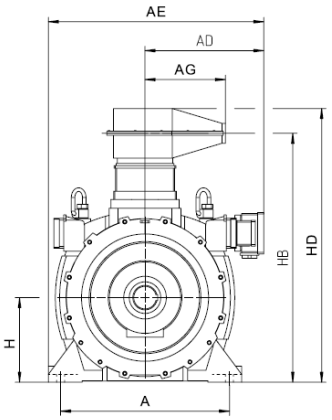

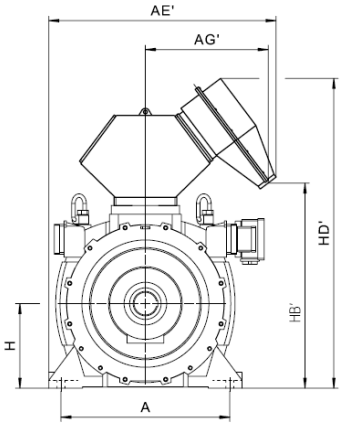

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 502-6AR40-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-6AR40-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-6AR40-4C.0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-6AR40-4A.0	7400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-6AR40-4C.0	7600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 562-6AR40-4C.0	9300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-6AR40-4C.0	9900	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-6AR40-4C.0	10400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
8-pole																			
1NB1 452-8AR40-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-8AR40-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-8AR40-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-8AR40-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-8AR40-4A.0	5400	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-8AR40-4C.0	5600	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 502-8AR40-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-8AR40-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-8AR40-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-8AR40-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-8AR40-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-8AR40-4A.0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 562-8AR40-4C.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-8AR40-4C.0	9800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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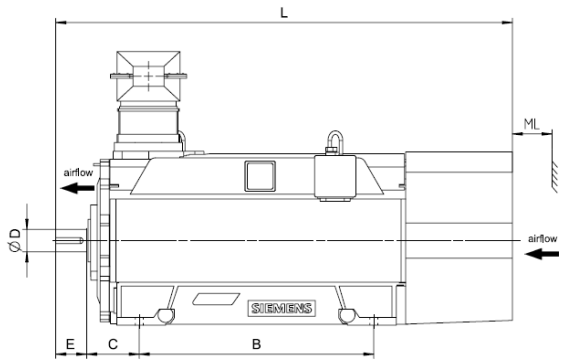

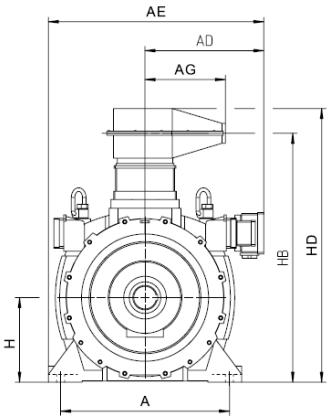

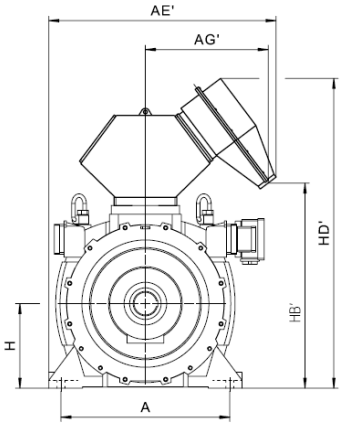

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 566-8AR40-4C.0	10400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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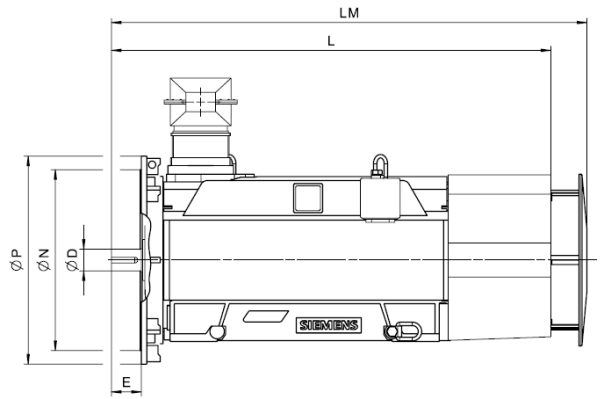

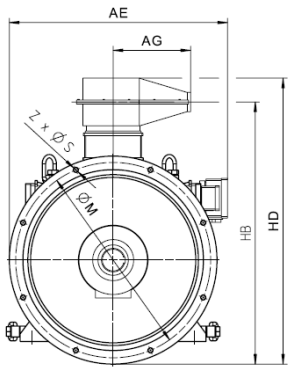

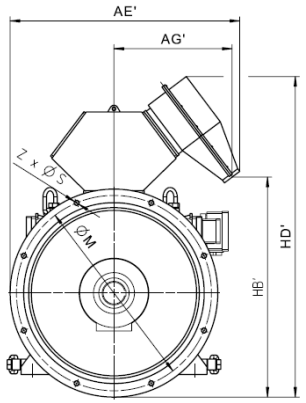

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NB1 452-4AR44-4AA0	5200	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-4AR44-4CA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AR44-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AR44-4CA0	5600	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AR44-4AA0	5800	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AR44-4CA0	6000	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 502-4AR44-4CA0	6900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-4AR44-4AA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AR44-4AA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AR44-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AR44-4AA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AR44-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 560-4AR44-4CA0	9000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 560-4AR44-4AA0	8700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AR44-4CA0	9400	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AR44-4AA0	9100	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AR44-4AA0	9500	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AR44-4CA0	9800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AR44-4AA0	10000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AR44-4CA0	10400	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
6-pole													
1NB1 452-6AR44-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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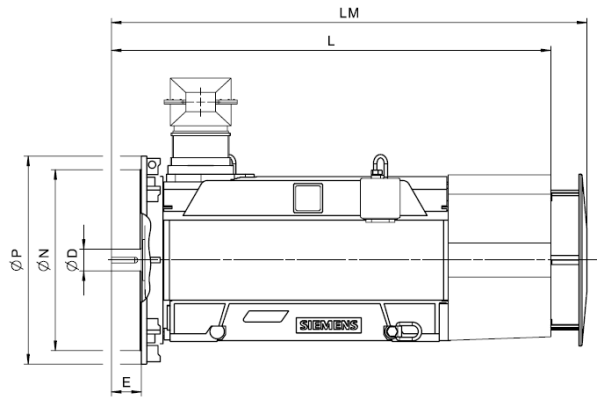

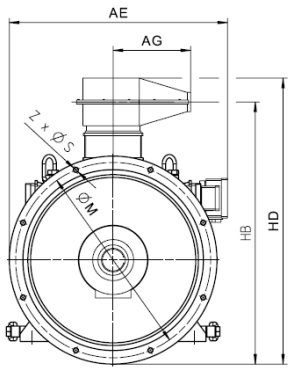

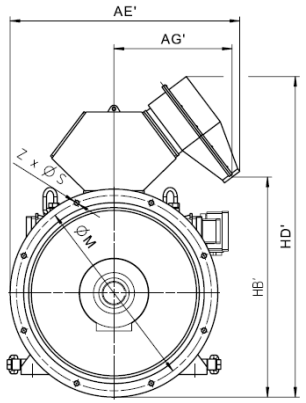

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 452-6AR44-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AR44-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AR44-4CA0	5600	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AR44-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AR44-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 500-6AR44-4CA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 500-6AR44-4AA0	6500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AR44-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AR44-4CA0	7000	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AR44-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AR44-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AR44-4AA0	7600	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AR44-4CA0	7900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-6AR44-4CA0	9700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-6AR44-4CA0	10300	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-6AR44-4CA0	10800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
8-pole													
1NB1 452-8AR44-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-8AR44-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AR44-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AR44-4CA0	5500	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AR44-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AR44-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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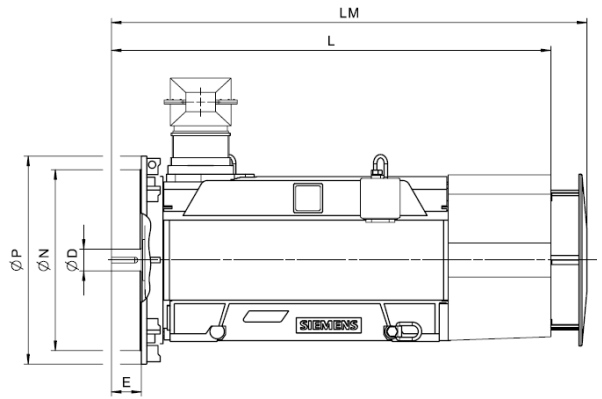

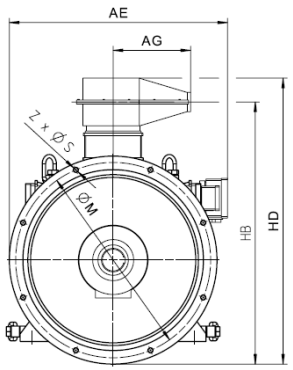

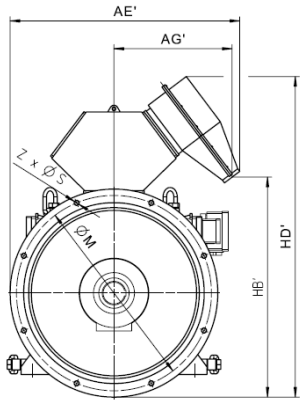

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 502-8AR44-4CA0	7000	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-8AR44-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AR44-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AR44-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AR44-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AR44-4AA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-8AR44-4CA0	9500	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-8AR44-4CA0	10200	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-8AR44-4CA0	10700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD square-law torque																						
Rated power IEC		SIMOTICS HV C VSD M ~n 2	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)	Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	1000	**1NB1 452-2AR30-4CC0**	3579	96.5	0.89	162	2668	2.10	17.1	3600	760	3283	96.5	0.89	505	2868	96.5	0.87	250	2273	96.2	0.84
	1050	**1NB1 454-2AR30-4C.0**	3584	96.6	0.90	168	2798	2.70	18.7	3600	795	3287	96.7	0.89	530	2871	96.6	0.86	265	2274	96.1	0.80
	1200	**1NB1 456-2AR30-4C.0**	3586	96.8	0.90	192	3196	2.80	20.6	3600	910	3288	96.8	0.89	605	2871	96.7	0.87	300	2275	96.2	0.80
	1350	**1NB1 502-2AR30-4CC0**	3586	96.5	0.89	220	3595	2.60	26.5	3600	1025	3289	96.5	0.89	680	2872	96.4	0.87	340	2275	96.0	0.82
	1400	**1NB1 504-2AR30-4CC0**	3589	96.6	0.90	225	3725	3.10	29.4	3600	1060	3291	96.5	0.90	705	2873	96.4	0.87	350	2276	95.8	0.80
	1600	**1NB1 506-2AR30-4CC0**	3589	96.8	0.91	250	4257	3.10	33.0	3600	1210	3291	96.8	0.90	810	2873	96.6	0.87	405	2276	96.0	0.81
	1900	**1NB1 564-2AR30-4CC0**	3589	96.9	0.91	300	5055	2.40	49.5	3600	1440	3291	96.9	0.91	960	2873	96.8	0.90	480	2276	96.4	0.85
	2050	**1NB1 566-2AR30-4CC0**	3591	97.0	0.91	320	5451	2.80	55.3	3600	1555	3292	97.0	0.91	1035	2874	96.9	0.90	515	2276	96.5	0.84
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	1110	**1NB1 452-4AR30-4A.0**	1792	96.6	0.84	190	5915	2.90	19.6	2400	840	1644	96.6	0.82	560	1435	96.4	0.78	280	1137	95.7	0.67
	1100	**1NB1 452-4AR30-4C.0**	1792	96.6	0.83	190	5862	2.40	25.2	2400	835	1643	96.6	0.82	555	1435	96.5	0.78	275	1137	95.9	0.68
	1100	**1NB1 454-4AR30-4A.0**	1793	96.6	0.84	188	5858	3.40	21.5	2400	835	1645	96.6	0.81	555	1436	96.3	0.75	275	1138	95.5	0.62
	1100	**1NB1 454-4AR30-4C.0**	1793	96.6	0.83	190	5858	2.80	27.6	2400	835	1644	96.6	0.81	555	1436	96.4	0.76	275	1137	95.7	0.64
	1120	**1NB1 456-4AR30-4A.0**	1794	96.7	0.84	192	5962	3.90	24.8	2400	850	1645	96.5	0.80	565	1436	96.2	0.74	280	1138	95.3	0.60
	1150	**1NB1 456-4AR30-4C.0**	1794	96.7	0.84	196	6121	3.10	31.7	2400	870	1645	96.6	0.81	580	1436	96.4	0.75	290	1138	95.6	0.63
	1450	**1NB1 502-4AR30-4C.0**	1791	96.4	0.85	245	7731	2.00	37.3	2200	1100	1643	96.5	0.85	730	1435	96.5	0.82	365	1137	96.1	0.75
	1450	**1NB1 502-4AR30-4A.0**	1791	96.3	0.86	245	7731	2.50	28.4	2200	1100	1643	96.4	0.86	735	1435	96.3	0.82	365	1137	95.8	0.74
	1450	**1NB1 504-4AR30-4A.0**	1792	96.4	0.88	235	7727	2.90	32.5	2200	1100	1644	96.4	0.87	730	1435	96.3	0.83	365	1137	95.8	0.74
	1450	**1NB1 504-4AR30-4C.0**	1793	96.5	0.86	240	7723	2.30	42.4	2200	1100	1644	96.5	0.86	730	1436	96.5	0.83	365	1137	96.0	0.75
	1610	**1NB1 506-4AR30-4A.0**	1793	96.5	0.88	265	8575	3.30	37.0	2200	1220	1645	96.5	0.86	815	1436	96.3	0.82	405	1137	95.6	0.71
	1650	**1NB1 506-4AR30-4C.0**	1793	96.7	0.87	270	8788	2.50	48.0	2200	1250	1645	96.7	0.86	835	1436	96.6	0.82	415	1138	96.0	0.73
	1850	**1NB1 560-4AR30-4C.0**	1792	96.4	0.84	315	9858	1.80	64.6	2000	1400	1644	96.5	0.84	935	1435	96.4	0.82	465	1137	96.1	0.76
	1870	**1NB1 560-4AR30-4A.0**	1792	96.3	0.85	315	9965	2.10	48.3	2000	1415	1644	96.3	0.85	945	1436	96.3	0.83	470	1137	95.9	0.76
	2000	**1NB1 562-4AR30-4C.0**	1793	96.7	0.86	335	10652	2.20	72.4	2000	1515	1645	96.6	0.86	1010	1436	96.5	0.83	505	1138	96.1	0.75
	2010	**1NB1 562-4AR30-4A.0**	1794	96.5	0.87	330	10699	2.50	54.5	2000	1525	1645	96.5	0.86	1015	1436	96.3	0.83	505	1138	95.8	0.75
	2150	**1NB1 564-4AR30-4A.0**	1794	96.7	0.88	350	11444	2.70	59.9	2000	1630	1645	96.6	0.86	1085	1436	96.4	0.83	540	1138	95.8	0.74
	2150	**1NB1 564-4AR30-4C.0**	1794	96.8	0.87	355	11444	2.30	79.3	2000	1630	1645	96.8	0.86	1085	1436	96.6	0.83	540	1138	96.1	0.75
	2350	**1NB1 566-4AR30-4A.0**	1794	96.8	0.88	385	12509	2.90	66.6	2000	1780	1646	96.7	0.87	1185	1437	96.5	0.83	590	1138	95.8	0.74
	2350	**1NB1 566-4AR30-4C.0**	1794	96.9	0.88	380	12509	2.50	88.0	2000	1780	1645	96.9	0.86	1185	1437	96.7	0.83	590	1138	96.1	0.74
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	750	**1NB1 452-6AR30-4A.0**	1193	96.2	0.79	136	6003	2.00	28.0	2200	570	1094	96.2	0.79	380	956	96.2	0.76	190	758	95.6	0.67
	770	**1NB1 452-6AR30-4C.0**	1193	96.4	0.83	134	6163	2.20	36.3	2200	585	1094	96.4	0.82	390	956	96.3	0.79	195	757	95.7	0.69
	750	**1NB1 454-6AR30-4A.0**	1194	96.3	0.81	134	5998	2.40	31.8	2200	570	1095	96.2	0.79	380	957	96.1	0.75	190	758	95.3	0.63
	800	**1NB1 454-6AR30-4C.0**	1194	96.4	0.84	138	6398	2.50	41.0	2200	605	1095	96.4	0.82	405	956	96.3	0.78	200	758	95.5	0.67

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SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power		**SIMOTICS HV C VSD M ~n [2]**	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
	850	**1NB1 456-6AR30-4A.0**	1195	96.4	0.81	152	6792	2.50	36.9	2200	645	1096	96.3	0.79	430	957	96.2	0.75	215	758	95.3	0.63
	900	**1NB1 456-6AR30-4C.0**	1194	96.6	0.84	154	7198	2.60	47.3	2200	680	1096	96.5	0.82	455	957	96.3	0.77	225	758	95.5	0.66
	1100	**1NB1 500-6AR30-4C.0**	1194	96.4	0.86	184	8798	1.90	59.8	2100	835	1095	96.6	0.86	555	956	96.7	0.85	275	758	96.4	0.77
	1000	**1NB1 500-6AR30-4A.0**	1193	96.3	0.83	174	8004	2.20	46.5	2100	760	1094	96.5	0.83	505	956	96.5	0.82	250	757	96.1	0.73
	1110	**1NB1 502-6AR30-4A.0**	1193	96.5	0.83	192	8885	2.30	52.7	2100	840	1095	96.6	0.83	560	956	96.6	0.81	280	758	96.2	0.72
	1170	**1NB1 502-6AR30-4C.0**	1195	96.6	0.86	196	9350	2.10	67.5	2100	885	1096	96.7	0.86	590	957	96.8	0.84	295	758	96.4	0.75
	1200	**1NB1 504-6AR30-4A.0**	1194	96.6	0.85	205	9597	2.50	59.7	2100	910	1095	96.7	0.84	605	956	96.7	0.82	305	758	96.2	0.72
	1260	**1NB1 504-6AR30-4C.0**	1195	96.7	0.87	210	10069	2.30	76.1	2100	955	1096	96.8	0.86	635	957	96.8	0.84	320	758	96.4	0.75
	1250	**1NB1 506-6AR30-4A.0**	1195	96.6	0.85	210	9989	2.90	67.3	2100	945	1096	96.7	0.83	630	957	96.6	0.80	315	758	96.0	0.68
	1310	**1NB1 506-6AR30-4C.0**	1196	96.8	0.87	215	10460	2.60	85.6	2100	990	1097	96.8	0.85	660	958	96.8	0.82	330	759	96.2	0.71
	1650	**1NB1 562-6AR30-4C.0**	1195	97.0	0.87	270	13185	2.60	120.2	2000	1250	1096	97.1	0.87	835	957	97.1	0.85	415	758	96.6	0.76
	1970	**1NB1 564-6AR30-4C.0**	1195	97.2	0.88	320	15742	2.40	136.7	2000	1495	1096	97.2	0.88	995	957	97.2	0.86	495	758	96.9	0.78
	2120	**1NB1 566-6AR30-4C.0**	1195	97.3	0.88	345	16941	2.50	151.8	2000	1605	1096	97.3	0.87	1070	957	97.3	0.86	535	758	96.8	0.78
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	630	**1NB1 452-8AR30-4A.0**	893	95.7	0.78	118	6737	1.90	28.1	2200	480	819	95.8	0.77	320	716	95.8	0.74	160	568	95.2	0.64
	650	**1NB1 452-8AR30-4C.0**	893	95.8	0.80	118	6951	1.90	36.3	2200	495	820	95.9	0.79	330	716	95.8	0.76	165	568	95.2	0.65
	700	**1NB1 454-8AR30-4A.0**	893	96.0	0.78	130	7485	2.00	31.9	2200	530	820	96.0	0.77	355	716	96.0	0.74	175	568	95.3	0.64
	700	**1NB1 454-8AR30-4C.0**	894	96.0	0.80	126	7477	2.10	41.1	2200	530	820	96.1	0.79	355	716	95.9	0.75	175	568	95.2	0.64
	750	**1NB1 456-8AR30-4A.0**	894	96.1	0.79	138	8011	2.20	37.0	2200	570	820	96.1	0.77	380	717	95.9	0.73	190	568	95.1	0.62
	750	**1NB1 456-8AR30-4C.0**	895	96.1	0.80	136	8002	2.30	47.4	2200	570	821	96.1	0.78	380	717	95.9	0.74	190	568	95.0	0.62
	730	**1NB1 502-8AR30-4C.0**	895	95.7	0.85	124	7789	2.20	67.0	2100	555	821	95.6	0.83	370	717	95.6	0.80	185	568	94.8	0.70
	710	**1NB1 502-8AR30-4A.0**	894	95.8	0.81	126	7584	1.90	52.0	2100	540	820	95.8	0.80	360	717	95.8	0.77	180	568	95.1	0.68
	800	**1NB1 504-8AR30-4C.0**	896	95.7	0.84	138	8526	2.70	75.6	2100	605	822	95.6	0.81	405	717	95.4	0.76	200	568	94.4	0.64
	800	**1NB1 504-8AR30-4A.0**	896	95.9	0.80	144	8526	2.60	58.8	2100	605	822	95.7	0.77	405	718	95.6	0.71	200	568	94.5	0.58
	850	**1NB1 506-8AR30-4A.0**	896	96.0	0.81	152	9059	2.50	66.4	2100	645	821	95.8	0.79	430	717	95.8	0.74	215	568	94.8	0.62
	850	**1NB1 506-8AR30-4C.0**	896	95.8	0.84	146	9059	2.90	85.1	2100	645	822	95.6	0.81	430	718	95.4	0.76	215	569	94.3	0.63
	1120	**1NB1 562-8AR30-4C.0**	895	96.6	0.84	192	11950	2.30	119.6	2000	850	821	96.6	0.84	565	717	96.6	0.81	280	568	96.2	0.70
	1270	**1NB1 564-8AR30-4C.0**	895	96.7	0.85	215	13550	2.30	136.3	2000	960	821	96.7	0.84	640	717	96.7	0.81	320	568	96.3	0.70
	1400	**1NB1 566-8AR30-4C.0**	896	96.8	0.84	240	14921	2.60	151.7	2000	1060	822	96.8	0.83	705	718	96.7	0.79	355	569	96.1	0.67

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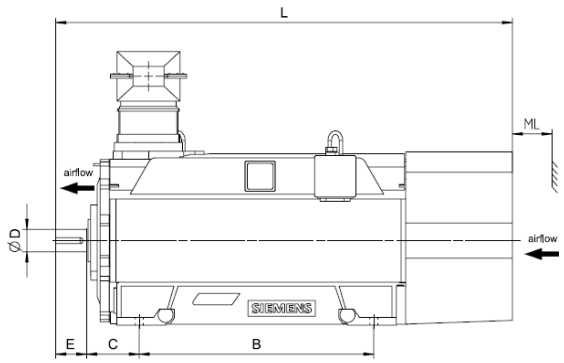

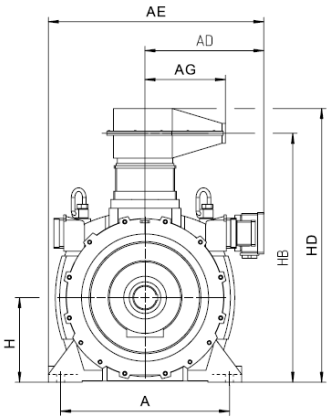

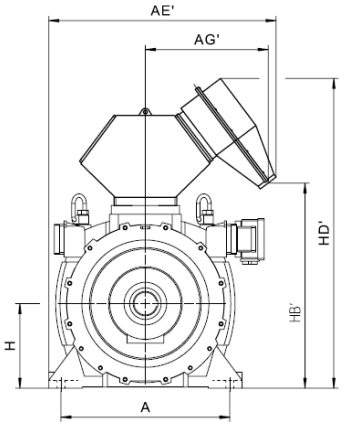

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 452-2AR30-4CC0	5200	900	557	737	1072	1252	525	693	1250	500	95	130	450	1329	1044	1456	1647	2584	180
1NB1 454-2AR30-4C.0	5200	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 456-2AR30-4C.0	5400	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 502-2AR30-4CC0	6800	1000	629	737	1194	1302	525	693	1320	560	110	165	500	1440	1155	1567	1758	2782	200
1NB1 504-2AR30-4CC0	7100	1000	629	737	1194	1302	525	693	1320	560	110	165	500	1440	1155	1567	1758	2782	200
1NB1 506-2AR30-4CC0	7600	1000	629	737	1194	1302	525	693	1320	560	110	165	500	1440	1155	1567	1758	2782	200
1NB1 564-2AR30-4CC0	9100	1120	684	737	1319	1372	525	693	1400	600	120	165	560	1565	1279	1691	1883	2913	225
1NB1 566-2AR30-4CC0	9500	1120	684	737	1319	1372	525	693	1400	600	120	165	560	1565	1279	1691	1883	2913	225
4-pole																			
1NB1 452-4AR30-4A.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-4AR30-4C.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-4AR30-4A.0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-4AR30-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-4AR30-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-4AR30-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 502-4AR30-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-4AR30-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-4AR30-4A.0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-4AR30-4C.0	7000	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-4AR30-4A.0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-4AR30-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 560-4AR30-4C.0	8600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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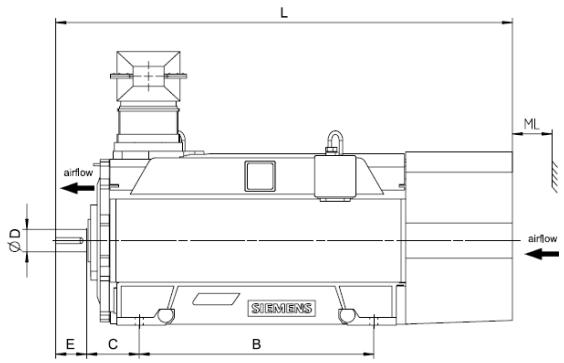

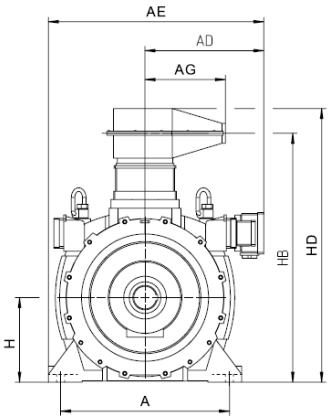

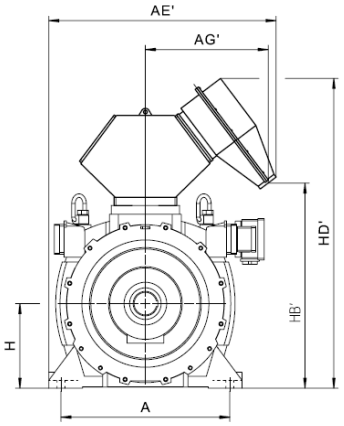

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 560-4AR30-4A.0	8300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 562-4AR30-4C.0	9000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 562-4AR30-4A.0	8700	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-4AR30-4A.0	9100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-4AR30-4C.0	9500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-4AR30-4A.0	9600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-4AR30-4C.0	10000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
6-pole																			
1NB1 452-6AR30-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-6AR30-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-6AR30-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-6AR30-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-6AR30-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-6AR30-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 500-6AR30-4C.0	6400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 500-6AR30-4A.0	6200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-6AR30-4A.0	6600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-6AR30-4C.0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-6AR30-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-6AR30-4C.0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-6AR30-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-6AR30-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 562-6AR30-4C.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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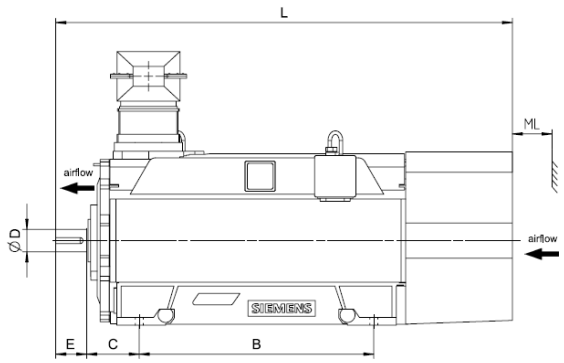

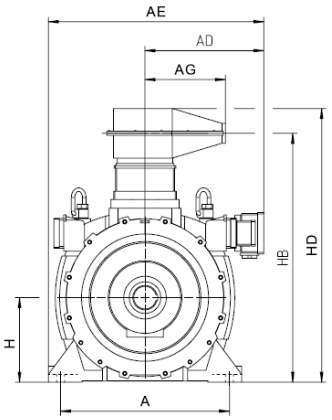

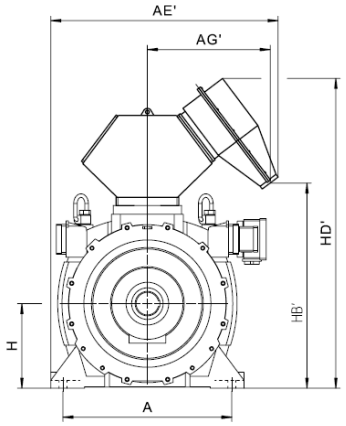

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 564-6AR30-4C.0	9800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-6AR30-4C.0	10400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
8-pole																			
1NB1 452-8AR30-4A.0	4800	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-8AR30-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-8AR30-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-8AR30-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-8AR30-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-8AR30-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 502-8AR30-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-8AR30-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-8AR30-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-8AR30-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-8AR30-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-8AR30-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 562-8AR30-4C.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-8AR30-4C.0	9800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-8AR30-4C.0	10300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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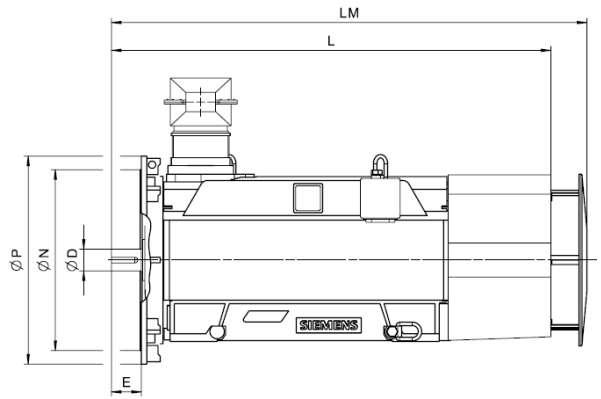

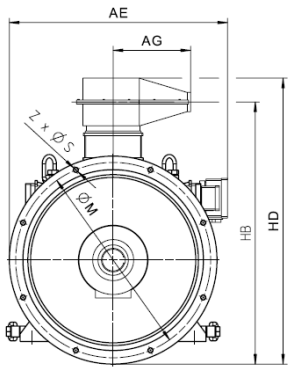

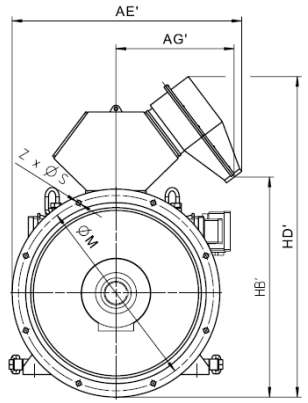

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NB1 452-4AR34-4AA0	5200	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-4AR34-4CA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AR34-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AR34-4CA0	5600	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AR34-4AA0	5800	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AR34-4CA0	6000	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 502-4AR34-4CA0	6900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-4AR34-4AA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AR34-4AA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AR34-4CA0	7300	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AR34-4AA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AR34-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 560-4AR34-4CA0	9000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 560-4AR34-4AA0	8700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AR34-4CA0	9400	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AR34-4AA0	9100	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AR34-4AA0	9500	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AR34-4CA0	9800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AR34-4AA0	10000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AR34-4CA0	10300	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
6-pole													
1NB1 452-6AR34-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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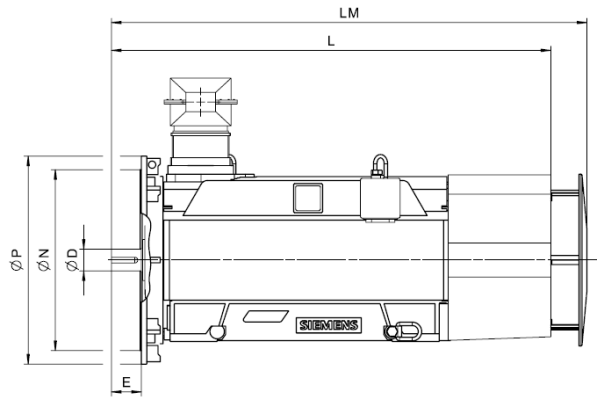

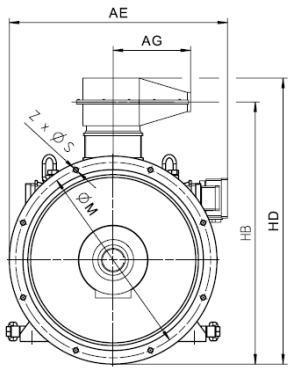

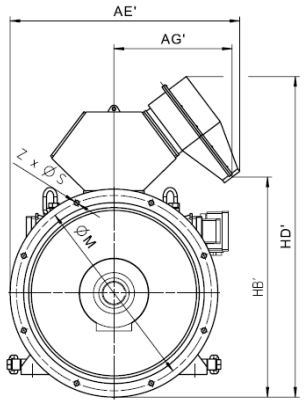

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 452-6AR34-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AR34-4AA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AR34-4CA0	5500	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AR34-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AR34-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 500-6AR34-4CA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 500-6AR34-4AA0	6500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AR34-4AA0	6900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AR34-4CA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AR34-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AR34-4CA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AR34-4AA0	7600	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AR34-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-6AR34-4CA0	9600	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-6AR34-4CA0	10200	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-6AR34-4CA0	10800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
8-pole													
1NB1 452-8AR34-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-8AR34-4CA0	5200	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AR34-4AA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AR34-4CA0	5500	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AR34-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AR34-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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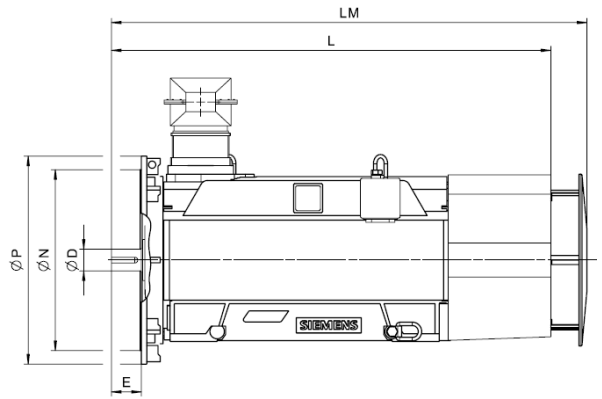

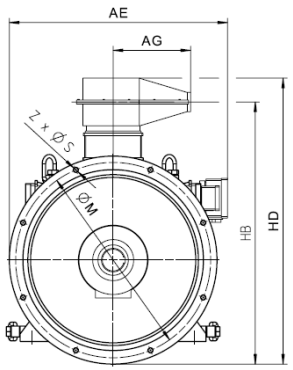

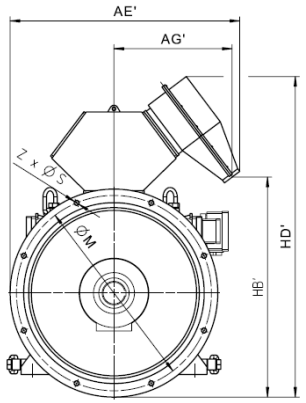

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 502-8AR34-4CA0	7000	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-8AR34-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AR34-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AR34-4AA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AR34-4AA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AR34-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-8AR34-4CA0	9600	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-8AR34-4CA0	10100	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-8AR34-4CA0	10700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F									Partial load values for square-law torque drive											
												P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit													
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - Square-law torque drive																							
560	490	**1NC1 402-2AC00-4AG0**	2982	96.3	0.94	520	1793	4.10	9.0	3600	415	2686	96.3	0.92	285	2389	96.2	0.88	140	1853	95.6	0.81
560	490	**1NC1 402-2AC00-4CG0**	2982	96.2	0.94	520	1793	4.00	11.0	3600	415	2686	96.1	0.92	285	2389	96.0	0.88	140	1853	95.2	0.80
630	560	**1NC1 404-2AC00-4AG0**	2984	96.6	0.94	580	2016	4.60	10.0	3600	470	2687	96.5	0.92	320	2390	96.3	0.87	155	1854	95.6	0.79
630	560	**1NC1 404-2AC00-4CG0**	2984	96.4	0.94	580	2016	4.50	12.0	3600	470	2688	96.3	0.91	320	2391	96.1	0.87	155	1854	95.2	0.78
710	630	**1NC1 406-2AC00-4AG0**	2985	96.8	0.93	660	2271	4.70	11.0	3600	530	2688	96.7	0.91	360	2391	96.5	0.87	175	1854	95.8	0.78
710	630	**1NC1 406-2AC00-4CG0**	2986	96.7	0.93	660	2271	4.60	13.0	3600	530	2689	96.5	0.91	360	2392	96.3	0.86	175	1855	95.5	0.77
710	630	**1NC1 452-2AC00-4AG0**	2987	96.9	0.93	660	2270	3.20	11.0	3600	530	2690	97.0	0.91	360	2392	96.9	0.88	175	1855	96.6	0.82
710	630	**1NC1 452-2AC00-4CG0**	2987	96.8	0.93	660	2270	3.10	15.0	3600	530	2690	96.8	0.91	360	2392	96.8	0.88	175	1855	96.3	0.82
800	710	**1NC1 454-2AC00-4AG0**	2987	97.0	0.94	730	2558	3.50	12.0	3600	595	2690	97.0	0.92	405	2392	97.0	0.89	195	1855	96.6	0.84
800	710	**1NC1 454-2AC00-4CG0**	2987	96.9	0.94	730	2558	3.40	17.0	3600	595	2690	96.8	0.92	405	2392	96.8	0.89	195	1855	96.3	0.83
900	790	**1NC1 456-2AC00-4AG0**	2989	97.2	0.94	820	2875	4.20	14.0	3600	670	2691	97.1	0.92	455	2393	97.0	0.88	220	1856	96.5	0.81
900	790	**1NC1 456-2AC00-4CG0**	2989	97.1	0.94	830	2875	4.10	19.0	3600	670	2691	97.0	0.92	455	2394	96.9	0.88	220	1856	96.3	0.81
1050	930	**1NC1 502-2AC00-4CG0**	2987	96.5	0.90	1020	3357	3.10	25.0	3000	780	2690	96.4	0.90	530	2392	96.3	0.87	260	1855	95.4	0.81
1050	930	**1NC1 502-2AC00-4AG0**	2986	96.6	0.89	1020	3358	3.10	19.0	3000	780	2689	96.7	0.89	530	2392	96.6	0.87	260	1855	95.9	0.81
1200	1060	**1NC1 504-2AC00-4CG0**	2989	96.8	0.90	1160	3834	3.70	28.0	3000	890	2692	96.6	0.89	605	2394	96.4	0.86	295	1856	95.3	0.78
1200	1060	**1NC1 504-2AC00-4AG0**	2989	96.9	0.90	1160	3834	3.70	21.0	3000	890	2691	96.8	0.89	605	2393	96.7	0.86	295	1856	95.9	0.78
1300	1150	**1NC1 506-2AC00-4CG0**	2989	96.8	0.91	1240	4153	3.60	31.0	3000	965	2691	96.7	0.91	655	2393	96.5	0.88	320	1856	95.5	0.81
1300	1150	**1NC1 506-2AC00-4AG0**	2988	97.0	0.91	1240	4155	3.80	24.0	3000	965	2691	96.9	0.90	655	2393	96.8	0.88	320	1856	95.9	0.81
1400	1230	**1NC1 564-2AC00-4CG0**	2993	96.9	0.90	1340	4467	3.90	46.0	3000	1040	2694	96.6	0.88	705	2396	96.3	0.85	345	1857	95.2	0.76
1600	1410	**1NC1 566-2AC00-4CG0**	2992	97.0	0.92	1500	5107	3.70	51.0	3000	1190	2694	96.7	0.90	805	2395	96.5	0.88	395	1857	95.4	0.80
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - Square-law torque drive																							
630	560	**1NC1 404-4AC00-4AG0**	1492	96.4	0.90	610	4032	3.50	14.0	2600	470	1343	96.0	0.88	320	1195	95.7	0.84	155	927	94.4	0.74
630	560	**1NC1 404-4AC00-4CG0**	1490	96.4	0.89	610	4038	3.10	19.0	2600	470	1342	96.1	0.88	320	1194	96.0	0.84	155	926	94.9	0.75
710	630	**1NC1 406-4AC00-4AG0**	1491	96.4	0.91	680	4547	3.50	16.0	2600	530	1343	96.0	0.89	360	1195	95.8	0.85	175	927	94.5	0.76
710	630	**1NC1 406-4AC00-4CG0**	1490	96.5	0.90	680	4550	3.10	21.0	2600	530	1342	96.2	0.88	360	1194	96.1	0.85	175	926	95.1	0.76
800	710	**1NC1 452-4AC00-4AG0**	1493	96.7	0.89	780	5117	3.50	22.0	2400	595	1344	96.4	0.86	405	1196	96.2	0.81	195	927	95.1	0.71
800	710	**1NC1 452-4AC00-4CG0**	1492	96.6	0.88	790	5120	3.20	29.0	2400	595	1344	96.4	0.85	405	1196	96.2	0.81	195	927	95.2	0.71
900	790	**1NC1 454-4AC00-4AG0**	1493	96.8	0.89	870	5756	3.70	25.0	2400	670	1344	96.5	0.86	455	1196	96.2	0.81	220	927	95.1	0.71
900	790	**1NC1 454-4AC00-4CG0**	1493	96.7	0.88	880	5756	3.30	32.0	2400	670	1344	96.5	0.86	455	1196	96.2	0.81	220	927	95.2	0.70
1000	880	**1NC1 456-4AC00-4CG0**	1493	96.9	0.89	970	6396	3.50	37.0	2400	745	1345	96.5	0.86	505	1196	96.3	0.81	245	928	95.2	0.71
1000	880	**1NC1 456-4AC00-4AG0**	1493	96.9	0.90	960	6396	3.90	29.0	2400	745	1345	96.5	0.87	505	1196	96.3	0.82	245	927	95.1	0.71
1050	930	**1NC1 502-4AC00-4CG0**	1493	96.2	0.87	1040	6716	2.80	35.0	2200	780	1344	96.1	0.85	530	1196	95.9	0.81	260	927	95.0	0.71
1050	930	**1NC1 502-4AC00-4AG0**	1493	96.1	0.87	1060	6716	3.50	26.0	2200	780	1344	95.9	0.85	530	1196	95.7	0.79	260	927	94.5	0.68
1200	1060	**1NC1 504-4AC00-4CG0**	1493	96.5	0.86	1200	7675	2.70	40.0	2200	895	1345	96.3	0.85	605	1196	96.2	0.81	295	928	95.1	0.71

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SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1200	1060	**1NC1 504-4AC00-4AG0**	1493	96.4	0.87	1200	7675	3.50	30.0	2200	895	1344	96.2	0.85	605	1196	95.9	0.80	295	927	94.6	0.69
1300	1150	**1NC1 506-4AC00-4CG0**	1493	96.5	0.88	1280	8315	2.80	45.0	2200	965	1345	96.4	0.86	655	1196	96.2	0.83	320	928	95.0	0.73
1300	1150	**1NC1 506-4AC00-4AG0**	1493	96.5	0.89	1260	8315	3.60	35.0	2200	965	1344	96.2	0.87	655	1196	95.9	0.82	320	927	94.6	0.72
1400	1230	**1NC1 562-4AC00-4CG0**	1493	96.4	0.88	1380	8954	2.70	68.0	2000	1040	1345	96.3	0.87	705	1196	96.2	0.83	345	928	95.4	0.75
1400	1230	**1NC1 562-4AC00-4AG0**	1494	96.4	0.88	1380	8948	3.10	50.0	2000	1040	1345	96.3	0.87	705	1196	96.0	0.83	345	928	95.2	0.74
1600	1410	**1NC1 564-4AC00-4AG0**	1494	96.7	0.89	1560	10227	3.20	55.0	2000	1190	1345	96.4	0.87	810	1197	96.2	0.82	395	928	95.1	0.73
1600	1410	**1NC1 564-4AC00-4CG0**	1494	96.8	0.88	1580	10227	2.80	75.0	2000	1190	1345	96.5	0.86	810	1196	96.3	0.83	395	928	95.3	0.74
1800	1590	**1NC1 566-4AC00-4AG0**	1493	96.8	0.90	1720	11513	3.00	62.0	2000	1340	1345	96.6	0.88	910	1196	96.4	0.85	445	928	95.5	0.77
1800	1590	**1NC1 566-4AC00-4CG0**	1493	96.9	0.89	1740	11513	2.60	83.0	2000	1340	1345	96.6	0.88	910	1196	96.5	0.85	445	928	95.6	0.78
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - Square-law torque drive																						
500	440	**1NC1 404-6AC00-4AG0**	995	96.1	0.88	495	4799	3.40	25.0	2400	370	896	95.6	0.86	250	797	95.2	0.82	125	618	93.3	0.72
500	440	**1NC1 404-6AC00-4CG0**	994	96.2	0.87	500	4803	2.90	32.0	2400	370	895	95.9	0.86	255	796	95.7	0.82	125	618	94.4	0.73
560	490	**1NC1 406-6AC00-4AG0**	995	96.2	0.89	550	5374	3.40	28.0	2400	415	896	95.7	0.87	285	797	95.3	0.83	140	618	93.5	0.73
560	490	**1NC1 406-6AC00-4CG0**	994	96.3	0.88	550	5380	2.90	37.0	2400	415	895	96.1	0.86	285	797	95.8	0.83	140	618	94.5	0.74
630	560	**1NC1 452-6AC00-4AG0**	995	96.3	0.84	650	6046	3.60	33.0	2200	470	896	95.6	0.80	320	797	95.3	0.74	155	618	93.5	0.61
630	560	**1NC1 452-6AC00-4CG0**	994	96.5	0.84	650	6052	3.10	42.0	2200	470	896	96.0	0.81	320	797	95.8	0.77	155	618	94.4	0.65
710	630	**1NC1 454-6AC00-4AG0**	995	96.4	0.84	730	6814	3.70	38.0	2200	530	896	95.7	0.80	360	797	95.3	0.74	175	618	93.6	0.61
710	630	**1NC1 454-6AC00-4CG0**	995	96.6	0.84	730	6814	3.30	47.0	2200	530	896	96.1	0.81	360	797	95.9	0.77	175	618	94.5	0.64
800	710	**1NC1 456-6AC00-4AG0**	996	96.4	0.83	840	7670	4.40	44.0	2200	595	897	95.5	0.77	405	798	95.0	0.70	195	618	92.8	0.55
800	710	**1NC1 456-6AC00-4CG0**	995	96.6	0.84	820	7678	3.80	55.0	2200	595	897	96.0	0.79	405	797	95.7	0.73	195	618	94.0	0.59
900	790	**1NC1 500-6AC00-4CG0**	994	96.3	0.86	910	8646	2.10	57.0	2100	670	895	96.3	0.86	455	797	96.3	0.84	220	618	95.3	0.75
900	790	**1NC1 500-6AC00-4AG0**	992	96.1	0.84	930	8664	2.20	44.0	2100	670	894	96.1	0.83	455	796	96.0	0.82	220	617	95.0	0.74
1000	880	**1NC1 502-6AC00-4AG0**	993	96.4	0.83	1040	9617	2.50	50.0	2100	745	895	96.3	0.82	505	796	96.1	0.80	245	618	95.0	0.70
1000	880	**1NC1 502-6AC00-4CG0**	995	96.6	0.86	1000	9597	2.40	65.0	2100	745	896	96.5	0.84	505	797	96.4	0.81	245	618	95.4	0.71
1120	990	**1NC1 504-6AC00-4CG0**	995	96.6	0.87	1120	10749	2.20	74.0	2100	835	896	96.6	0.86	565	797	96.5	0.84	275	618	95.5	0.75
1120	990	**1NC1 504-6AC00-4AG0**	993	96.4	0.85	1140	10771	2.30	57.0	2100	835	894	96.4	0.85	565	796	96.2	0.83	275	617	95.2	0.74
1250	1100	**1NC1 506-6AC00-4CG0**	995	96.7	0.87	1240	11997	2.40	83.0	2100	930	896	96.6	0.86	630	797	96.4	0.83	310	618	95.2	0.73
1250	1100	**1NC1 506-6AC00-4AG0**	993	96.5	0.86	1260	12021	2.60	65.0	2100	930	895	96.4	0.84	630	796	96.1	0.82	310	618	94.8	0.72
1300	1150	**1NC1 562-6AC00-4CG0**	995	96.9	0.87	1300	12476	2.80	116.0	2000	965	896	96.8	0.86	655	797	96.6	0.83	320	618	95.4	0.73
1500	1320	**1NC1 564-6AC00-4CG0**	996	97.0	0.87	1480	14381	3.10	132.0	2000	1115	897	96.8	0.85	755	798	96.5	0.82	370	618	95.0	0.70
1700	1500	**1NC1 566-6AC00-4CG0**	997	97.1	0.85	1720	16283	3.70	147.0	2000	1265	897	96.6	0.82	860	798	96.2	0.77	420	619	94.4	0.64
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - Square-law torque drive																						
375	330	**1NC1 404-8AC00-4AG0**	745	95.7	0.83	395	4807	3.40	25.0	2400	280	671	95.0	0.79	190	597	94.4	0.72	95	463	91.8	0.59
375	330	**1NC1 404-8AC00-4CG0**	744	95.7	0.81	405	4813	2.90	32.0	2400	280	670	95.2	0.78	190	596	94.7	0.72	95	463	92.6	0.60
420	370	**1NC1 406-8AC00-4AG0**	744	95.8	0.84	435	5391	3.20	29.0	2400	315	671	95.2	0.80	210	597	94.7	0.74	105	463	92.3	0.62

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SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD square-law torque

Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
420	370	**1NC1 406-8AC00-4CG0**	743	95.7	0.82	450	5398	2.80	36.0	2400	315	670	95.3	0.80	210	596	94.9	0.74	105	463	92.9	0.62
530	470	**1NC1 452-8AC00-4AG0**	744	95.7	0.78	590	6803	2.70	33.0	2200	395	671	95.2	0.75	270	597	94.7	0.70	130	463	92.7	0.57
530	470	**1NC1 452-8AC00-4CG0**	743	95.7	0.78	590	6812	2.70	41.0	2200	395	669	95.3	0.76	270	596	95.0	0.72	130	462	93.4	0.60
600	530	**1NC1 454-8AC00-4AG0**	745	95.8	0.79	660	7691	2.80	38.0	2200	445	671	95.2	0.76	305	597	94.7	0.70	150	463	92.6	0.57
600	530	**1NC1 454-8AC00-4CG0**	743	95.8	0.79	660	7711	2.90	47.0	2200	445	670	95.4	0.76	305	596	95.0	0.72	150	463	93.3	0.59
670	590	**1NC1 456-8AC00-4AG0**	745	95.9	0.79	740	8588	3.10	45.0	2200	500	671	95.1	0.75	340	597	94.5	0.69	165	463	92.2	0.55
670	590	**1NC1 456-8AC00-4CG0**	744	95.9	0.79	740	8600	3.20	55.0	2200	500	670	95.3	0.76	340	597	94.9	0.70	165	463	93.0	0.57
710	630	**1NC1 502-8AC00-4CG0**	745	95.7	0.85	730	9101	2.30	65.0	2100	530	671	95.5	0.82	360	597	95.4	0.78	175	463	94.1	0.68
710	630	**1NC1 502-8AC00-4AG0**	744	95.8	0.80	780	9113	1.90	50.0	2100	530	670	95.7	0.79	360	597	95.7	0.76	175	463	94.6	0.66
800	710	**1NC1 504-8AC00-4AG0**	744	96.0	0.80	870	10268	2.20	56.0	2100	595	671	95.8	0.78	405	597	95.6	0.74	200	463	94.3	0.63
800	710	**1NC1 504-8AC00-4CG0**	745	95.9	0.84	830	10254	2.50	73.0	2100	595	671	95.6	0.81	405	597	95.3	0.76	195	463	93.7	0.64
900	790	**1NC1 506-8AC00-4AG0**	745	96.0	0.81	970	11536	2.30	64.0	2100	670	671	95.7	0.78	455	597	95.5	0.73	220	463	93.9	0.62
900	790	**1NC1 506-8AC00-4CG0**	746	95.9	0.84	930	11521	2.70	83.0	2100	670	672	95.5	0.81	455	597	95.2	0.75	220	463	93.3	0.63
1120	990	**1NC1 562-8AC00-4CG0**	745	96.6	0.84	1160	14356	2.20	115.0	2000	835	671	96.4	0.83	565	597	96.1	0.80	275	463	94.8	0.69
1250	1100	**1NC1 564-8AC00-4CG0**	745	96.6	0.84	1280	16022	2.40	132.0	2000	930	671	96.5	0.83	630	597	96.2	0.79	310	463	94.8	0.68
1400	1230	**1NC1 566-8AC00-4CG0**	745	96.7	0.85	1420	17945	2.20	147.0	2000	1040	671	96.6	0.84	705	597	96.4	0.81	345	463	95.1	0.71

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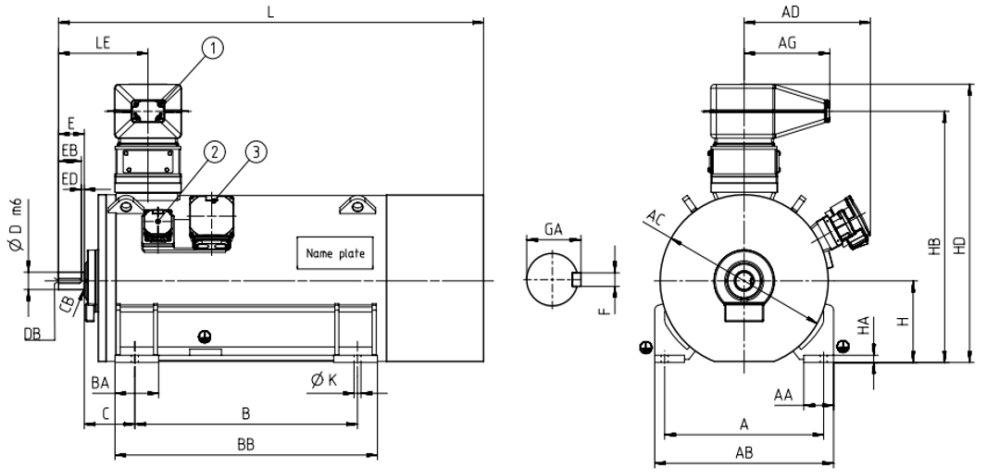

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 402-2AC00-4AG0	3405	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 402-2AC00-4CG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 404-2AC00-4AG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 404-2AC00-4CG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 406-2AC00-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 406-2AC00-4CG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 452-2AC00-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 452-2AC00-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AC00-4AG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AC00-4CG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AC00-4AG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AC00-4CG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 502-2AC00-4CG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 502-2AC00-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 504-2AC00-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 504-2AC00-4AG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 506-2AC00-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 506-2AC00-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 564-2AC00-4CG0	7895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	1557	o.r.	1690	o.r.	2598	o.r.
1NC1 566-2AC00-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	1557	o.r.	1690	o.r.	2598	o.r.

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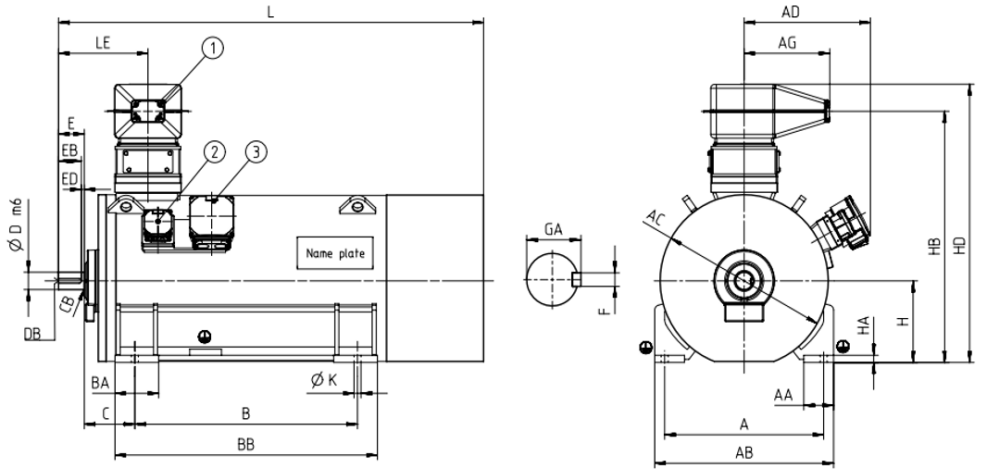

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
4-pole																			
1NC1 404-4AC00-4AG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-4AC00-4CG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-4AC00-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-4AC00-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-4AC00-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-4AC00-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AC00-4AG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AC00-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AC00-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AC00-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-4AC00-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-4AC00-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AC00-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AC00-4AG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AC00-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AC00-4AG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-4AC00-4CG0	7995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AC00-4AG0	7695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AC00-4AG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AC00-4CG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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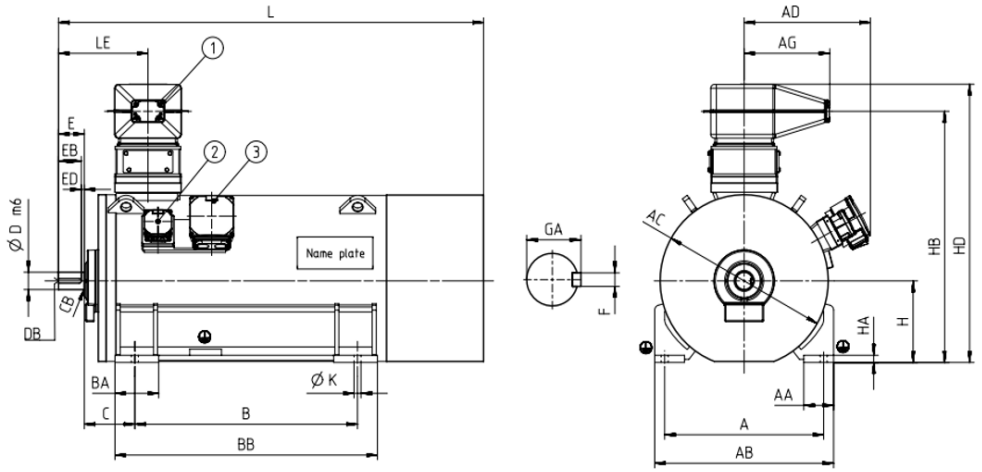

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 566-4AC00-4AG0	8695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AC00-4CG0	9095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
6-pole																			
1NC1 404-6AC00-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-6AC00-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-6AC00-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-6AC00-4CG0	4205	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-6AC00-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-6AC00-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AC00-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AC00-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AC00-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AC00-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 500-6AC00-4CG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 500-6AC00-4AG0	5575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AC00-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AC00-4CG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AC00-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AC00-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AC00-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AC00-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.

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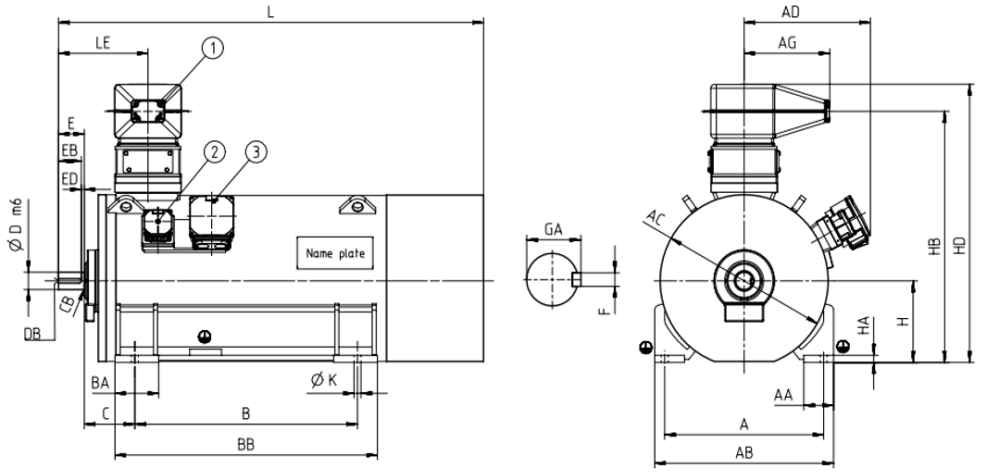

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 562-6AC00-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-6AC00-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-6AC00-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
8-pole																			
1NC1 404-8AC00-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-8AC00-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-8AC00-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-8AC00-4CG0	4105	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-8AC00-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-8AC00-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AC00-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AC00-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AC00-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AC00-4CG0	5225	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-8AC00-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-8AC00-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AC00-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AC00-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AC00-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AC00-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-8AC00-4CG0	8395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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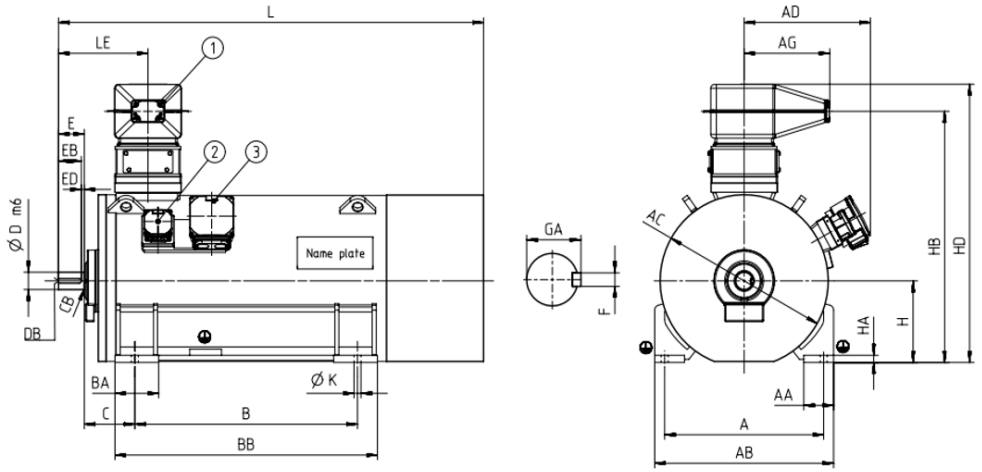

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 564-8AC00-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-8AC00-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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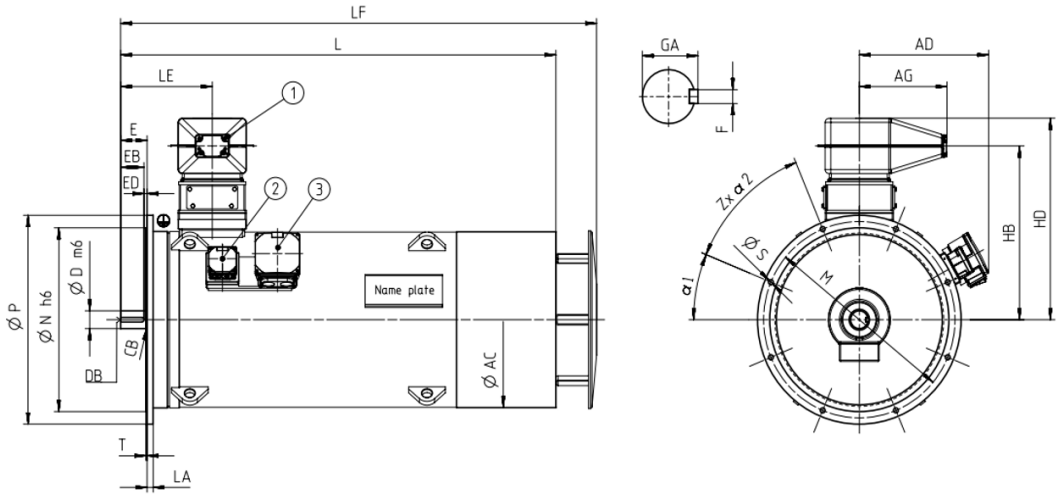

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
2-pole													
1NC1 402-2AC04-4AG0	4000	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 402-2AC04-4CG0	4000	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 404-2AC04-4AG0	4100	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 404-2AC04-4CG0	4200	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 406-2AC04-4AG0	4300	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 406-2AC04-4CG0	4400	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
4-pole													
1NC1 404-4AC04-4AG0	4200	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-4AC04-4CG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AC04-4AG0	4400	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AC04-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-4AC04-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AC04-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AC04-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AC04-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AC04-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AC04-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AC04-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AC04-4AG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AC04-4CG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16

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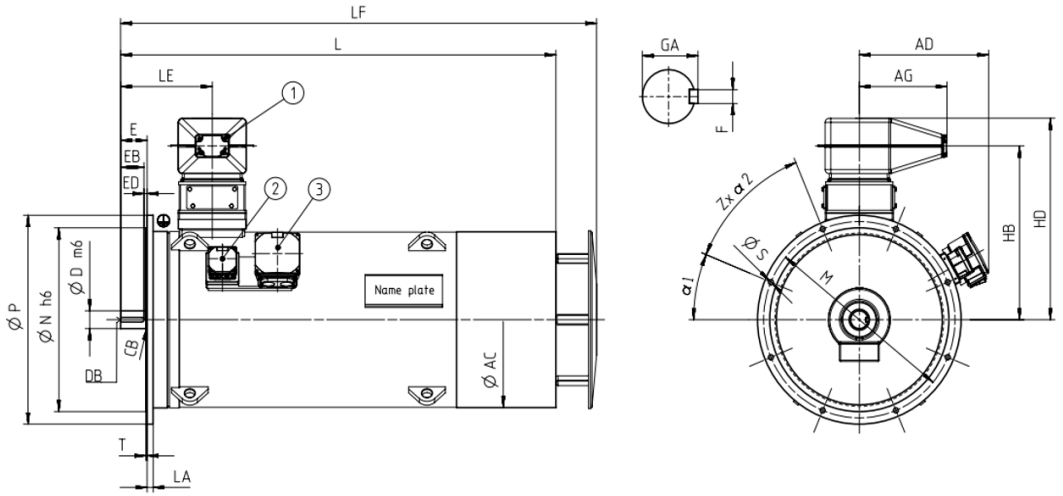

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 504-4AC04-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AC04-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AC04-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-4AC04-4CG0	9300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AC04-4AG0	9000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AC04-4AG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AC04-4CG0	9800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AC04-4AG0	10000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AC04-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
6-pole													
1NC1 404-6AC04-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-6AC04-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AC04-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AC04-4CG0	4800	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-6AC04-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AC04-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AC04-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AC04-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AC04-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AC04-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AC04-4CG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16

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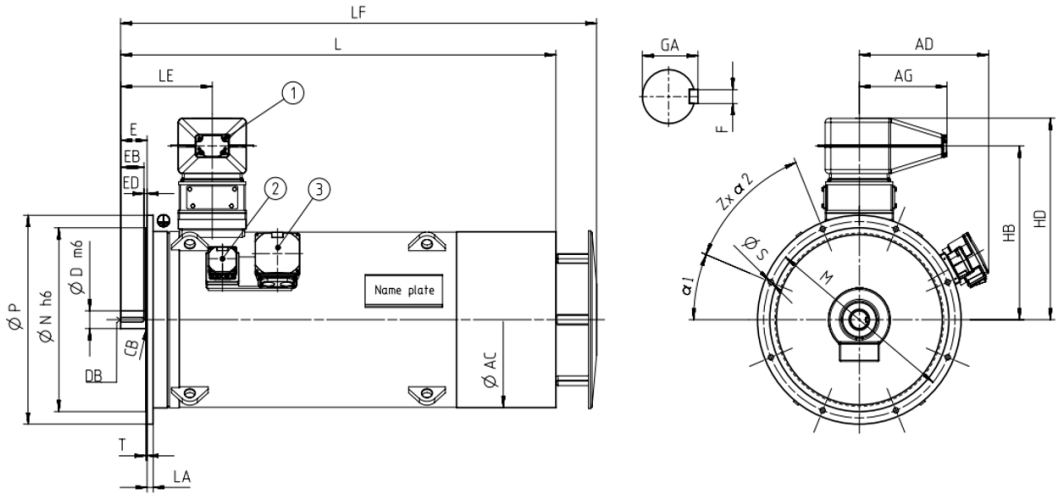

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 500-6AC04-4AG0	6600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AC04-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AC04-4CG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AC04-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AC04-4AG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AC04-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AC04-4AG0	7700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-6AC04-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AC04-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AC04-4CG0	10900	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole													
1NC1 404-8AC04-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-8AC04-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AC04-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AC04-4CG0	4700	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-8AC04-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AC04-4CG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AC04-4AG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AC04-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AC04-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AC04-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8

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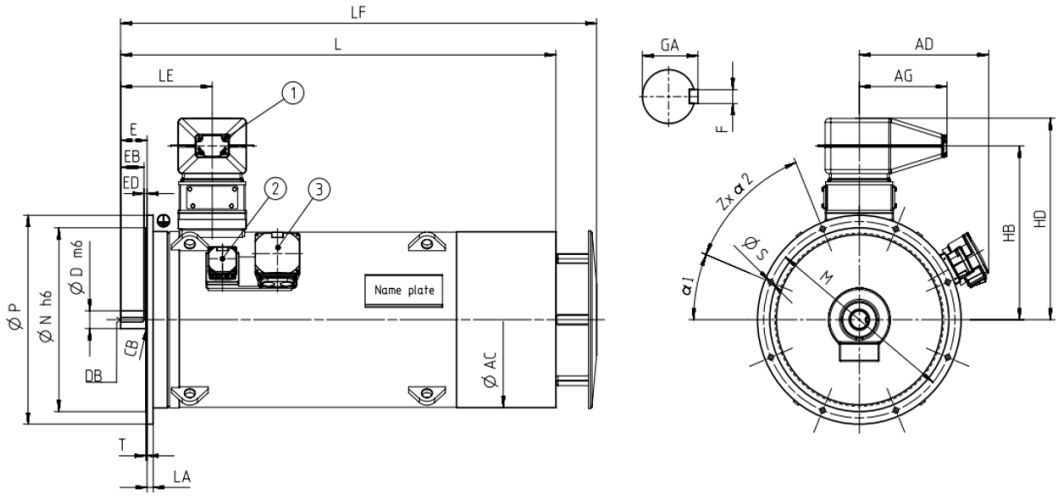

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NC1 502-8AC04-4CG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AC04-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AC04-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AC04-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AC04-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AC04-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AC04-4CG0	9700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-8AC04-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AC04-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - Square-law torque drive																						
630	560	**1NC1 402-2AC10-4AG0**	3584	96.2	0.93	590	1679	4.40	9.0	3600	475	3287	96.3	0.91	320	2870	95.7	0.86	160	2274	94.8	0.78
630	560	**1NC1 402-2AC10-4CG0**	3584	96.1	0.93	590	1679	4.30	11.0	3600	480	3288	96.2	0.90	320	2871	95.5	0.86	160	2274	94.4	0.77
710	630	**1NC1 404-2AC10-4AG0**	3584	96.4	0.93	660	1892	4.60	10.0	3600	540	3288	96.5	0.91	360	2871	96.0	0.87	180	2274	95.1	0.78
710	630	**1NC1 404-2AC10-4CG0**	3585	96.3	0.93	660	1891	4.50	12.0	3600	540	3288	96.4	0.91	360	2871	95.7	0.86	180	2274	94.7	0.77
800	710	**1NC1 406-2AC10-4AG0**	3585	96.5	0.94	740	2131	4.90	11.0	3600	605	3288	96.6	0.92	405	2871	96.0	0.87	200	2274	95.1	0.79
800	710	**1NC1 406-2AC10-4CG0**	3585	96.4	0.94	740	2131	4.80	13.0	3600	605	3289	96.5	0.91	405	2871	95.8	0.87	200	2275	94.7	0.78
800	700	**1NC1 452-2AC10-4CG0**	3585	96.5	0.94	740	2131	3.00	16.0	3600	605	3289	96.6	0.92	405	2871	96.3	0.90	200	2275	95.7	0.84
900	790	**1NC1 454-2AC10-4CG0**	3589	96.7	0.93	840	2395	3.90	18.0	3600	680	3291	96.8	0.91	455	2874	96.3	0.88	225	2276	95.5	0.80
1000	880	**1NC1 456-2AC10-4CG0**	3587	96.8	0.94	920	2662	3.30	20.0	3600	755	3290	97.0	0.93	505	2872	96.6	0.90	250	2275	96.0	0.85
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - Square-law torque drive																						
710	630	**1NC1 404-4AC10-4AG0**	1791	96.3	0.90	690	3786	3.30	14.0	2600	540	1643	96.5	0.88	360	1435	95.5	0.85	180	1137	94.0	0.76
710	630	**1NC1 404-4AC10-4CG0**	1790	96.3	0.89	690	3788	2.90	19.0	2600	540	1642	96.5	0.88	360	1434	95.8	0.85	180	1136	94.6	0.77
800	710	**1NC1 406-4AC10-4AG0**	1792	96.4	0.90	770	4263	3.50	16.0	2600	605	1644	96.6	0.88	405	1435	95.4	0.84	200	1137	93.8	0.74
800	710	**1NC1 406-4AC10-4CG0**	1791	96.4	0.89	780	4265	3.10	21.0	2600	605	1643	96.6	0.87	405	1435	95.8	0.84	200	1137	94.5	0.75
900	790	**1NC1 452-4AC10-4AG0**	1793	96.6	0.89	880	4793	3.50	22.0	2400	680	1644	96.8	0.87	455	1436	95.8	0.82	225	1137	94.5	0.72
900	790	**1NC1 452-4AC10-4CG0**	1792	96.5	0.88	890	4796	3.20	29.0	2400	680	1644	96.7	0.86	455	1436	95.8	0.81	225	1137	94.6	0.71
1000	880	**1NC1 454-4AC10-4AG0**	1794	96.7	0.89	970	5323	4.20	25.0	2400	760	1645	96.8	0.85	505	1436	95.5	0.79	250	1138	93.9	0.67
1000	880	**1NC1 454-4AC10-4CG0**	1794	96.6	0.88	980	5323	3.80	32.0	2400	760	1645	96.7	0.84	505	1436	95.6	0.78	250	1138	94.1	0.66
1120	990	**1NC1 456-4AC10-4AG0**	1794	96.9	0.89	1080	5962	4.30	29.0	2400	850	1645	97.0	0.86	565	1436	95.8	0.81	280	1138	94.2	0.69
1120	990	**1NC1 456-4AC10-4CG0**	1794	96.8	0.89	1080	5962	3.80	37.0	2400	850	1645	96.9	0.85	565	1436	95.8	0.80	280	1138	94.4	0.68
1200	1060	**1NC1 502-4AC10-4CG0**	1792	96.1	0.86	1220	6395	2.50	35.0	2200	910	1644	96.2	0.85	605	1436	95.6	0.81	300	1137	94.4	0.72
1200	1060	**1NC1 502-4AC10-4AG0**	1792	96.0	0.87	1200	6395	3.10	26.0	2200	910	1644	96.1	0.85	605	1435	95.3	0.81	300	1137	93.9	0.71
1300	1150	**1NC1 504-4AC10-4CG0**	1792	96.2	0.88	1280	6928	2.60	40.0	2200	985	1644	96.3	0.86	655	1436	95.7	0.83	330	1137	94.4	0.75
1300	1150	**1NC1 504-4AC10-4AG0**	1792	96.1	0.89	1280	6928	3.20	30.0	2200	985	1644	96.2	0.87	655	1435	95.4	0.83	330	1137	93.9	0.74
1500	1320	**1NC1 506-4AC10-4AG0**	1793	96.4	0.88	1480	7989	3.70	35.0	2200	1135	1645	96.4	0.85	755	1436	95.4	0.80	380	1138	93.6	0.69
1500	1320	**1NC1 506-4AC10-4CG0**	1794	96.5	0.87	1500	7984	2.90	45.0	2200	1135	1645	96.6	0.85	755	1436	95.7	0.81	380	1138	94.2	0.71
1600	1410	**1NC1 562-4AC10-4CG0**	1793	96.2	0.88	1580	8521	2.60	68.0	2000	1210	1645	96.3	0.87	810	1436	95.5	0.83	405	1138	94.3	0.75
1600	1410	**1NC1 562-4AC10-4AG0**	1794	96.1	0.88	1580	8517	3.00	50.0	2000	1215	1645	96.1	0.87	810	1436	95.3	0.83	405	1138	94.0	0.74
1800	1590	**1NC1 564-4AC10-4AG0**	1794	96.2	0.88	1780	9581	3.20	55.0	2000	1365	1646	96.3	0.86	910	1437	95.5	0.82	455	1138	94.2	0.72
1800	1590	**1NC1 564-4AC10-4CG0**	1794	96.4	0.88	1780	9581	2.80	75.0	2000	1365	1645	96.5	0.86	910	1437	95.7	0.82	455	1138	94.6	0.73
2000	1760	**1NC1 566-4AC10-4AG0**	1793	96.4	0.89	1960	10652	3.00	62.0	2000	1515	1645	96.5	0.88	1010	1436	95.8	0.85	505	1138	94.8	0.77
2000	1760	**1NC1 566-4AC10-4CG0**	1793	96.5	0.89	1940	10652	2.60	83.0	2000	1515	1645	96.7	0.88	1010	1436	96.0	0.85	505	1138	94.9	0.77
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - Square-law torque drive																						
560	490	**1NC1 404-6AC10-4AG0**	1195	96.2	0.88	550	4475	3.50	25.0	2400	425	1096	96.4	0.86	285	957	94.7	0.82	140	758	92.4	0.71

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SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
560	490	**1NC1 404-6AC10-4CG0**	1194	96.3	0.88	550	4479	3.00	32.0	2400	425	1095	96.6	0.86	285	957	95.4	0.82	140	758	93.7	0.72
630	560	**1NC1 406-6AC10-4AG0**	1195	96.3	0.88	620	5034	3.70	28.0	2400	475	1097	96.4	0.85	320	957	94.6	0.80	160	758	91.8	0.69
630	560	**1NC1 406-6AC10-4CG0**	1195	96.4	0.88	620	5034	3.30	37.0	2400	475	1096	96.7	0.85	320	957	95.4	0.81	160	758	93.3	0.71
710	630	**1NC1 452-6AC10-4AG0**	1195	96.4	0.84	730	5674	3.40	33.0	2200	540	1096	96.4	0.81	360	957	95.1	0.76	180	758	93.2	0.64
710	630	**1NC1 452-6AC10-4CG0**	1194	96.6	0.84	730	5678	3.00	42.0	2200	540	1095	96.7	0.82	360	957	95.7	0.78	180	758	94.2	0.67
800	710	**1NC1 454-6AC10-4AG0**	1196	96.3	0.83	840	6387	4.10	38.0	2200	605	1097	96.3	0.78	405	957	94.6	0.71	200	758	92.2	0.57
800	710	**1NC1 454-6AC10-4CG0**	1195	96.6	0.84	820	6393	3.60	47.0	2200	605	1096	96.7	0.79	405	957	95.4	0.74	200	758	93.5	0.60
900	790	**1NC1 456-6AC10-4AG0**	1196	96.5	0.83	940	7186	4.20	44.0	2200	680	1097	96.5	0.78	455	957	94.9	0.72	225	758	92.6	0.58
900	790	**1NC1 456-6AC10-4CG0**	1195	96.8	0.84	930	7192	3.70	55.0	2200	680	1096	96.8	0.80	455	957	95.5	0.74	225	758	93.7	0.61
1000	880	**1NC1 500-6AC10-4CG0**	1195	96.4	0.86	1000	7991	2.30	57.0	2100	760	1096	96.6	0.84	505	957	96.0	0.81	250	758	94.8	0.71
1000	880	**1NC1 500-6AC10-4AG0**	1193	96.3	0.83	1040	8004	2.40	44.0	2100	760	1095	96.5	0.82	505	956	95.8	0.79	250	758	94.5	0.69
1120	990	**1NC1 502-6AC10-4CG0**	1195	96.6	0.86	1120	8950	2.40	65.0	2100	850	1096	96.7	0.84	565	957	96.1	0.81	280	758	94.8	0.71
1120	990	**1NC1 502-6AC10-4AG0**	1193	96.4	0.84	1160	8965	2.50	50.0	2100	850	1095	96.6	0.82	565	956	95.9	0.80	280	758	94.4	0.70
1250	1100	**1NC1 504-6AC10-4CG0**	1196	96.7	0.85	1280	9980	2.80	74.0	2100	945	1097	96.8	0.83	630	958	96.0	0.79	315	758	94.5	0.66
1250	1100	**1NC1 504-6AC10-4AG0**	1194	96.5	0.84	1300	9997	2.90	57.0	2100	945	1096	96.7	0.81	630	957	95.7	0.77	315	758	94.0	0.65
1400	1230	**1NC1 506-6AC10-4CG0**	1195	96.7	0.87	1400	11187	2.60	83.0	2100	1060	1097	96.9	0.85	705	957	96.1	0.82	355	758	94.7	0.71
1400	1230	**1NC1 506-6AC10-4AG0**	1194	96.6	0.85	1420	11197	2.80	65.0	2100	1060	1095	96.8	0.84	705	957	95.9	0.80	355	758	94.2	0.70
1400	1230	**1NC1 562-6AC10-4CG0**	1196	96.7	0.86	1400	11178	3.40	116.0	2000	1060	1097	96.8	0.83	705	958	95.7	0.79	355	759	93.7	0.66
1600	1410	**1NC1 564-6AC10-4CG0**	1197	96.9	0.85	1620	12764	3.80	132.0	2000	1210	1097	96.9	0.82	810	958	95.5	0.77	405	759	93.2	0.63
1800	1590	**1NC1 566-6AC10-4CG0**	1196	97.0	0.87	1780	14372	3.30	147.0	2000	1365	1097	97.1	0.84	910	958	95.8	0.81	455	759	93.8	0.69
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - Square-law torque drive																						
420	370	**1NC1 404-8AC10-4AG0**	895	95.9	0.81	450	4481	3.80	25.0	2400	320	821	95.8	0.76	210	717	93.7	0.68	105	568	90.3	0.54
420	370	**1NC1 404-8AC10-4CG0**	894	95.9	0.80	460	4486	3.20	32.0	2400	320	821	95.9	0.76	210	717	94.2	0.69	105	568	91.5	0.56
470	410	**1NC1 406-8AC10-4AG0**	895	96.0	0.82	500	5015	3.80	29.0	2400	355	821	95.9	0.77	235	717	93.8	0.70	120	568	90.6	0.56
470	410	**1NC1 406-8AC10-4CG0**	895	96.0	0.81	510	5015	3.20	36.0	2400	355	821	96.0	0.77	235	717	94.3	0.70	120	568	91.6	0.57
600	530	**1NC1 452-8AC10-4AG0**	894	95.8	0.79	660	6409	2.60	33.0	2200	455	821	96.0	0.76	305	717	94.5	0.72	150	568	92.3	0.60
600	530	**1NC1 452-8AC10-4CG0**	892	95.8	0.78	670	6423	2.60	41.0	2200	455	819	96.0	0.77	305	716	94.9	0.73	150	567	93.0	0.61
670	590	**1NC1 454-8AC10-4AG0**	894	96.0	0.80	730	7157	2.60	38.0	2200	510	821	96.1	0.77	340	717	94.7	0.73	170	568	92.5	0.60
670	590	**1NC1 454-8AC10-4CG0**	893	96.0	0.79	740	7165	2.70	47.0	2200	510	820	96.2	0.77	340	716	95.0	0.74	170	567	93.1	0.62
750	660	**1NC1 456-8AC10-4CG0**	895	96.2	0.77	850	8002	3.50	55.0	2200	570	821	96.2	0.72	380	717	94.5	0.66	190	568	92.1	0.51
750	660	**1NC1 456-8AC10-4AG0**	896	96.0	0.76	860	7993	3.50	45.0	2200	570	822	96.0	0.71	380	718	93.9	0.64	190	568	90.9	0.49
800	710	**1NC1 502-8AC10-4CG0**	895	95.7	0.84	830	8536	2.40	65.0	2100	605	821	95.7	0.82	405	717	95.1	0.77	200	568	93.4	0.67
800	710	**1NC1 502-8AC10-4AG0**	894	95.9	0.80	870	8545	2.00	50.0	2100	605	821	95.9	0.79	405	717	95.5	0.75	200	568	94.1	0.66
900	790	**1NC1 504-8AC10-4AG0**	894	96.0	0.81	970	9613	2.10	56.0	2100	680	821	96.0	0.79	455	717	95.4	0.75	225	568	93.8	0.65
900	790	**1NC1 504-8AC10-4CG0**	895	95.8	0.84	940	9603	2.50	73.0	2100	680	821	95.7	0.82	455	717	95.0	0.77	225	568	93.0	0.66

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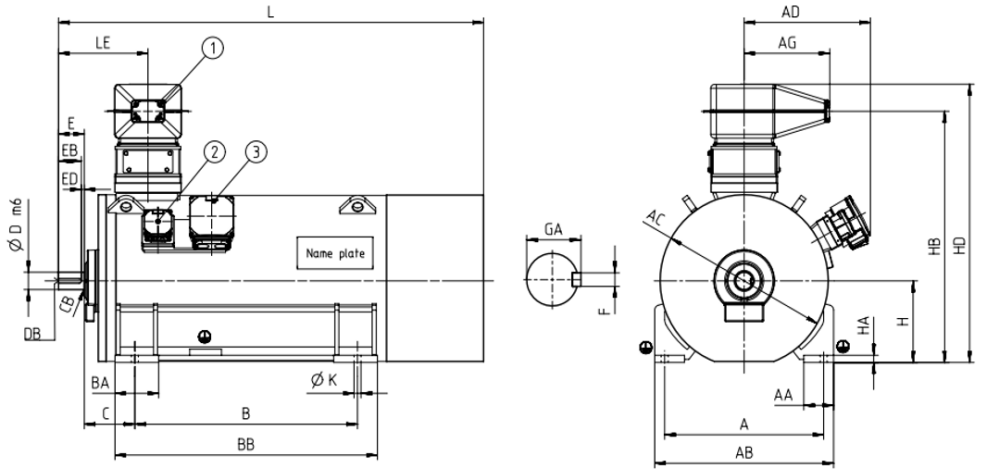
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD square-law torque

Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/F								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
1000	880	**1NC1 506-8AC10-4AG0**	894	96.0	0.82	1060	10682	2.10	64.0	2100	760	821	96.0	0.80	505	717	95.5	0.76	250	568	93.8	0.66
1000	880	**1NC1 506-8AC10-4CG0**	895	95.9	0.85	1020	10670	2.50	83.0	2100	760	821	95.8	0.82	505	717	95.0	0.78	250	568	93.1	0.67
1200	1060	**1NC1 562-8AC10-4CG0**	895	96.5	0.84	1240	12804	2.40	115.0	2000	910	821	96.6	0.83	605	717	95.8	0.79	305	568	94.2	0.68
1300	1150	**1NC1 564-8AC10-4CG0**	895	96.6	0.84	1340	13870	2.40	132.0	2000	985	822	96.7	0.83	655	717	95.8	0.79	330	568	94.1	0.68
1500	1320	**1NC1 566-8AC10-4CG0**	896	96.7	0.85	1520	15987	2.50	147.0	2000	1135	822	96.8	0.83	755	717	95.7	0.79	380	568	93.8	0.67



Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 402-2AC10-4AG0	3405	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 402-2AC10-4CG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 404-2AC10-4AG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 404-2AC10-4CG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 406-2AC10-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 406-2AC10-4CG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 452-2AC10-4CG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AC10-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AC10-4CG0	5025	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
4-pole																			
1NC1 404-4AC10-4AG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-4AC10-4CG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-4AC10-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-4AC10-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-4AC10-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-4AC10-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AC10-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AC10-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AC10-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AC10-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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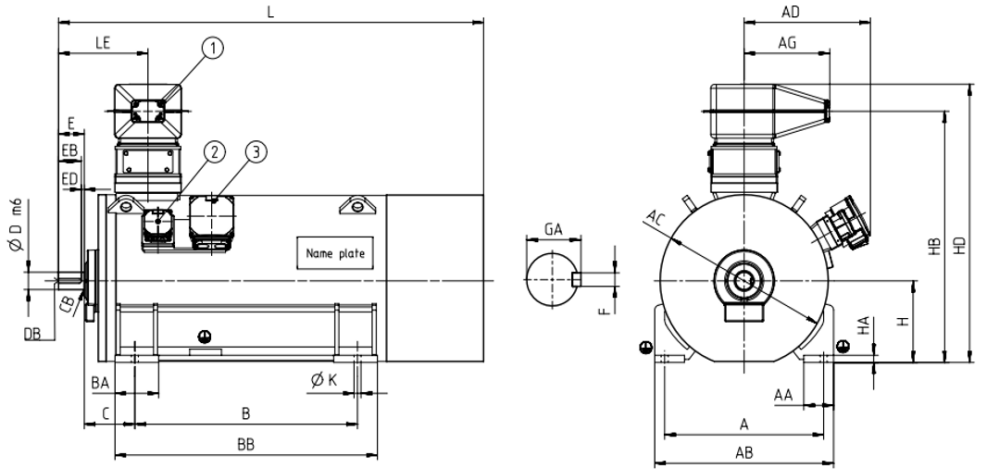

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 502-4AC10-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-4AC10-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AC10-4CG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AC10-4AG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AC10-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AC10-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-4AC10-4CG0	8095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AC10-4AG0	7795	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AC10-4AG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AC10-4CG0	8495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AC10-4AG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AC10-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
6-pole																			
1NC1 404-6AC10-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-6AC10-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-6AC10-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-6AC10-4CG0	4205	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-6AC10-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-6AC10-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AC10-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AC10-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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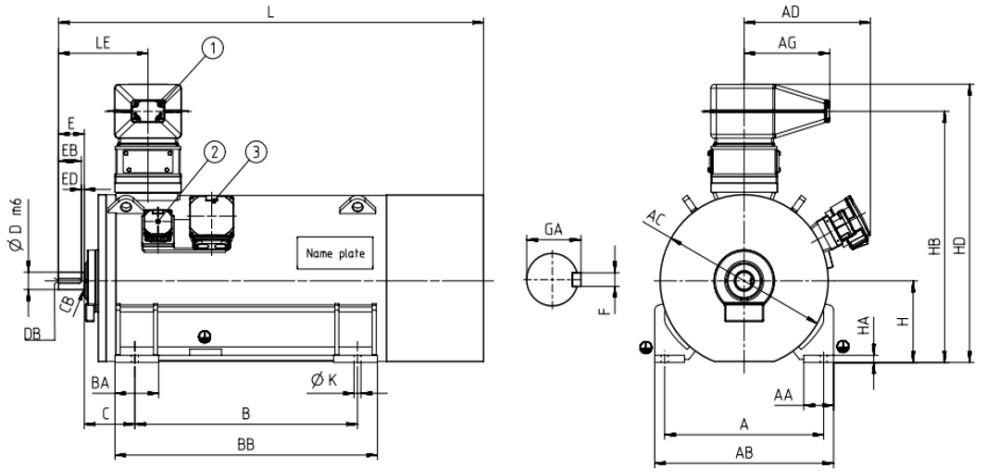

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 456-6AC10-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AC10-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 500-6AC10-4CG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 500-6AC10-4AG0	5575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AC10-4CG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AC10-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AC10-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AC10-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AC10-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AC10-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-6AC10-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-6AC10-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-6AC10-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
8-pole																			
1NC1 404-8AC10-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-8AC10-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-8AC10-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-8AC10-4CG0	4105	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-8AC10-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-8AC10-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AC10-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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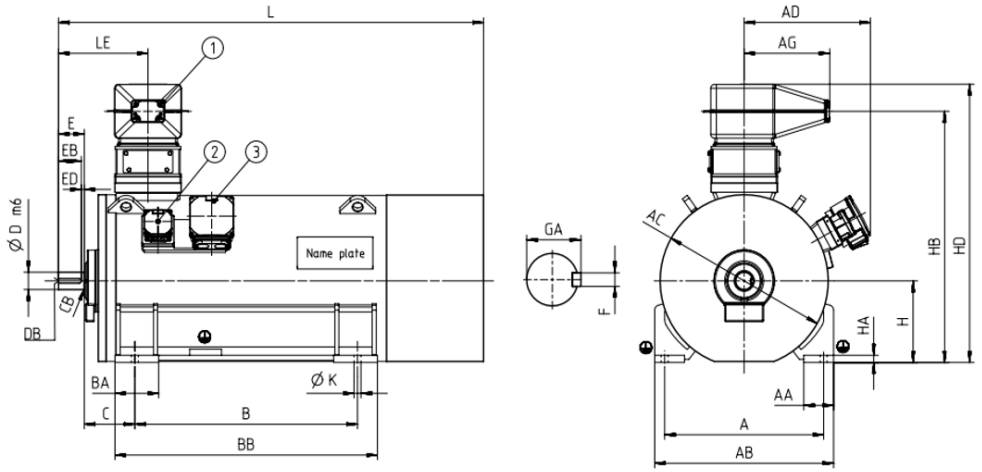

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 454-8AC10-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AC10-4CG0	5225	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AC10-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-8AC10-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-8AC10-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AC10-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AC10-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AC10-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AC10-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-8AC10-4CG0	8395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-8AC10-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-8AC10-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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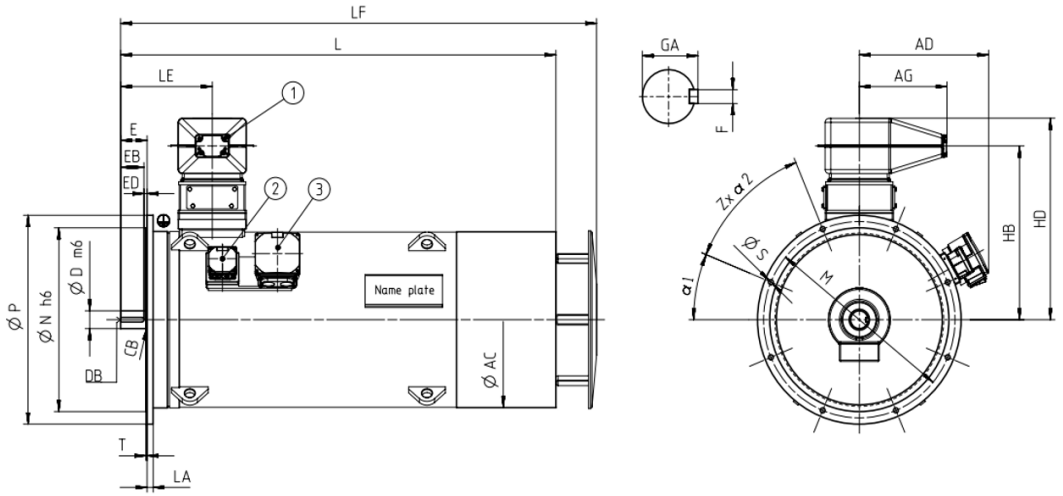

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NC1 404-4AC14-4AG0	4200	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-4AC14-4CG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AC14-4AG0	4400	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AC14-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-4AC14-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AC14-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AC14-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AC14-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AC14-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AC14-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AC14-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AC14-4AG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AC14-4CG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AC14-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AC14-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AC14-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-4AC14-4CG0	9400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AC14-4AG0	9100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AC14-4AG0	9400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AC14-4CG0	9700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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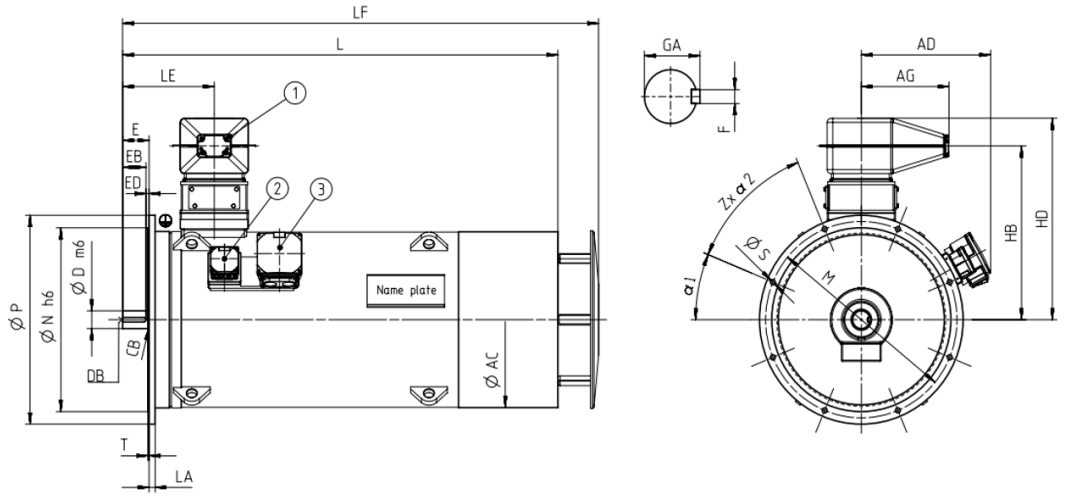

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NC1 566-4AC14-4AG0	9900	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AC14-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
6-pole													
1NC1 404-6AC14-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-6AC14-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AC14-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AC14-4CG0	4800	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-6AC14-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AC14-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AC14-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AC14-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AC14-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AC14-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AC14-4CG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 500-6AC14-4AG0	6600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AC14-4CG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AC14-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AC14-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AC14-4AG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AC14-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AC14-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16

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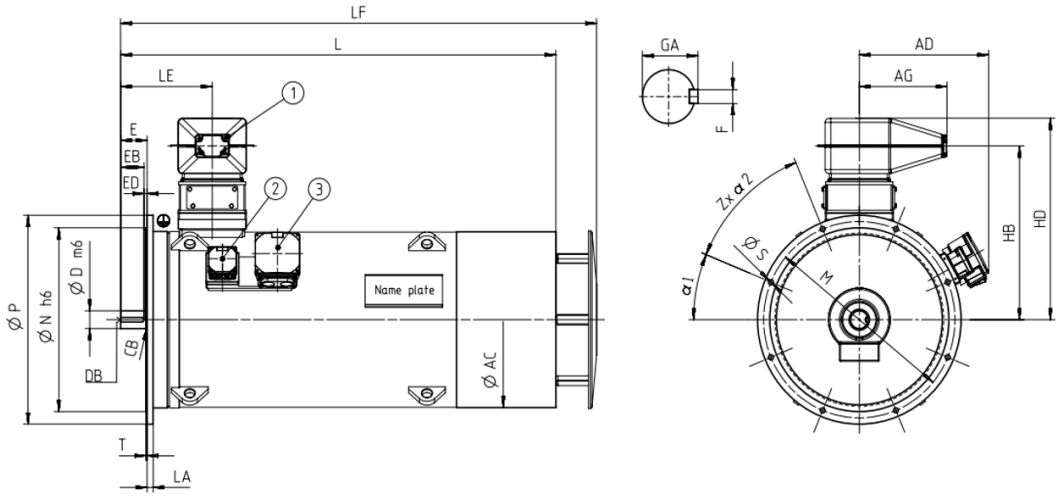

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings														
1NC1 562-6AC14-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AC14-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AC14-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole														
1NC1 404-8AC14-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-8AC14-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AC14-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AC14-4CG0	4700	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-8AC14-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AC14-4CG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AC14-4AG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AC14-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AC14-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AC14-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-8AC14-4CG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AC14-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AC14-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AC14-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AC14-4AG0	7700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AC14-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AC14-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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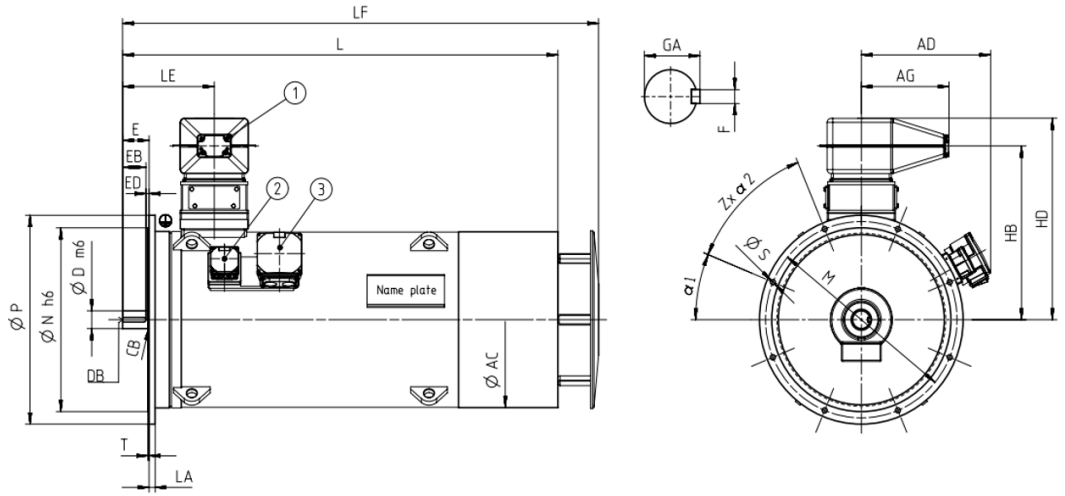

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings														
1NC1 564-8AC14-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AC14-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - Square-law torque drive																							
	710	**1NC1 452-2AR40-4AG0**	2986	96.7	0.90	114	2271	2.80	11.0	3600	530	2689	96.8	0.89	360	2392	96.8	0.87	175	1855	96.5	0.82
	710	**1NC1 452-2AR40-4CG0**	2983	96.5	0.89	114	2273	2.50	15.0	3600	530	2686	96.6	0.89	360	2390	96.6	0.87	175	1854	96.3	0.81
	800	**1NC1 454-2AR40-4AG0**	2988	96.9	0.90	128	2557	3.50	13.0	3600	595	2691	96.9	0.89	405	2393	96.8	0.86	195	1856	96.4	0.79
	800	**1NC1 454-2AR40-4CG0**	2986	96.7	0.90	128	2558	3.00	17.0	3600	595	2689	96.8	0.89	405	2391	96.7	0.86	195	1855	96.2	0.79
	900	**1NC1 456-2AR40-4AG0**	2989	97.0	0.91	142	2875	3.60	14.0	3600	670	2691	97.0	0.90	455	2393	96.9	0.87	220	1856	96.5	0.80
	900	**1NC1 456-2AR40-4CG0**	2986	96.8	0.91	142	2878	3.00	19.0	3600	670	2689	96.9	0.90	455	2392	96.8	0.87	220	1855	96.4	0.80
	1000	**1NC1 502-2AR40-4CG0**	2989	96.5	0.89	162	3195	3.10	24.0	3000	745	2691	96.6	0.89	505	2393	96.5	0.85	245	1856	96.1	0.78
	1000	**1NC1 502-2AR40-4AG0**	2988	96.7	0.89	162	3196	3.40	19.0	3000	745	2690	96.8	0.88	505	2393	96.7	0.86	245	1856	96.4	0.79
	1120	**1NC1 504-2AR40-4AG0**	2989	96.8	0.90	178	3578	3.70	21.0	3000	835	2691	96.9	0.89	565	2393	96.9	0.86	275	1856	96.5	0.79
	1120	**1NC1 504-2AR40-4CG0**	2989	96.7	0.90	178	3578	3.30	27.0	3000	835	2691	96.8	0.89	565	2394	96.7	0.86	275	1856	96.3	0.79
	1250	**1NC1 506-2AR40-4AG0**	2989	97.0	0.91	196	3994	3.80	24.0	3000	930	2691	97.1	0.90	630	2393	97.0	0.87	310	1856	96.7	0.81
	1250	**1NC1 506-2AR40-4CG0**	2990	96.9	0.90	198	3992	3.30	31.0	3000	930	2691	97.0	0.90	630	2394	96.9	0.87	310	1856	96.4	0.80
	1400	**1NC1 564-2AR40-4CG0**	2992	96.9	0.91	220	4468	3.20	46.0	3000	1040	2693	97.0	0.90	705	2395	96.9	0.87	345	1857	96.5	0.80
	1600	**1NC1 566-2AR40-4CG0**	2992	97.1	0.91	250	5107	3.20	51.0	3000	1190	2693	97.1	0.90	805	2395	97.0	0.88	395	1857	96.7	0.82
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - Square-law torque drive																							
	710	**1NC1 452-4AR40-4AG0**	1494	96.5	0.83	124	4538	3.60	18.0	2400	530	1345	96.5	0.80	360	1196	96.3	0.73	175	928	95.5	0.61
	710	**1NC1 452-4AR40-4CG0**	1493	96.4	0.83	124	4541	3.00	23.0	2400	530	1345	96.5	0.80	360	1196	96.3	0.74	175	928	95.7	0.62
	800	**1NC1 454-4AR40-4AG0**	1494	96.5	0.83	138	5113	4.00	20.0	2400	595	1345	96.5	0.79	405	1196	96.3	0.73	195	928	95.5	0.59
	800	**1NC1 454-4AR40-4CG0**	1494	96.5	0.83	138	5113	3.30	26.0	2400	595	1345	96.6	0.80	405	1196	96.3	0.74	195	928	95.6	0.62
	900	**1NC1 456-4AR40-4AG0**	1494	96.6	0.85	152	5753	3.80	23.0	2400	670	1345	96.7	0.82	455	1196	96.4	0.76	220	928	95.7	0.63
	900	**1NC1 456-4AR40-4CG0**	1494	96.7	0.84	154	5753	3.20	30.0	2400	670	1345	96.7	0.82	455	1196	96.5	0.76	220	928	95.9	0.65
	1000	**1NC1 502-4AR40-4CG0**	1493	96.3	0.86	168	6396	2.50	35.0	2200	745	1345	96.4	0.84	505	1196	96.4	0.81	245	927	96.0	0.71
	1000	**1NC1 502-4AR40-4AG0**	1493	96.2	0.86	168	6396	3.20	26.0	2200	745	1344	96.3	0.85	505	1196	96.2	0.80	245	927	95.8	0.69
	1120	**1NC1 504-4AR40-4CG0**	1493	96.5	0.86	188	7164	2.60	40.0	2200	835	1345	96.6	0.85	565	1196	96.5	0.82	275	928	96.1	0.72
	1120	**1NC1 504-4AR40-4AG0**	1493	96.4	0.87	186	7164	3.20	30.0	2200	835	1344	96.5	0.86	565	1196	96.4	0.81	275	927	95.9	0.71
	1250	**1NC1 506-4AR40-4CG0**	1494	96.6	0.87	205	7990	2.70	45.0	2200	930	1345	96.7	0.86	630	1196	96.7	0.82	310	928	96.3	0.72
	1250	**1NC1 506-4AR40-4AG0**	1494	96.6	0.88	205	7990	3.40	35.0	2200	930	1345	96.7	0.86	630	1196	96.6	0.81	310	928	96.1	0.71
	1400	**1NC1 560-4AR40-4CG0**	1493	96.6	0.85	235	8954	2.30	60.0	2000	1040	1345	96.7	0.84	705	1196	96.6	0.81	345	928	96.3	0.73
	1400	**1NC1 560-4AR40-4AG0**	1494	96.6	0.86	235	8948	2.70	44.0	2000	1040	1345	96.6	0.85	705	1196	96.5	0.81	345	928	96.1	0.71
	1600	**1NC1 562-4AR40-4CG0**	1494	96.8	0.86	265	10227	2.40	68.0	2000	1190	1345	96.9	0.84	810	1196	96.8	0.81	395	928	96.5	0.72
	1600	**1NC1 562-4AR40-4AG0**	1494	96.8	0.86	265	10227	2.80	50.0	2000	1190	1345	96.8	0.85	810	1197	96.7	0.81	395	928	96.3	0.71
	1800	**1NC1 564-4AR40-4AG0**	1495	96.9	0.87	295	11497	3.00	55.0	2000	1340	1346	97.0	0.85	910	1197	96.8	0.81	445	928	96.4	0.71
	1800	**1NC1 564-4AR40-4CG0**	1494	97.0	0.87	295	11505	2.60	75.0	2000	1340	1346	97.1	0.85	910	1197	96.9	0.81	445	928	96.6	0.72
	2000	**1NC1 566-4AR40-4AG0**	1495	97.1	0.88	325	12775	3.10	62.0	2000	1485	1346	97.1	0.86	1010	1197	96.9	0.82	495	928	96.5	0.72

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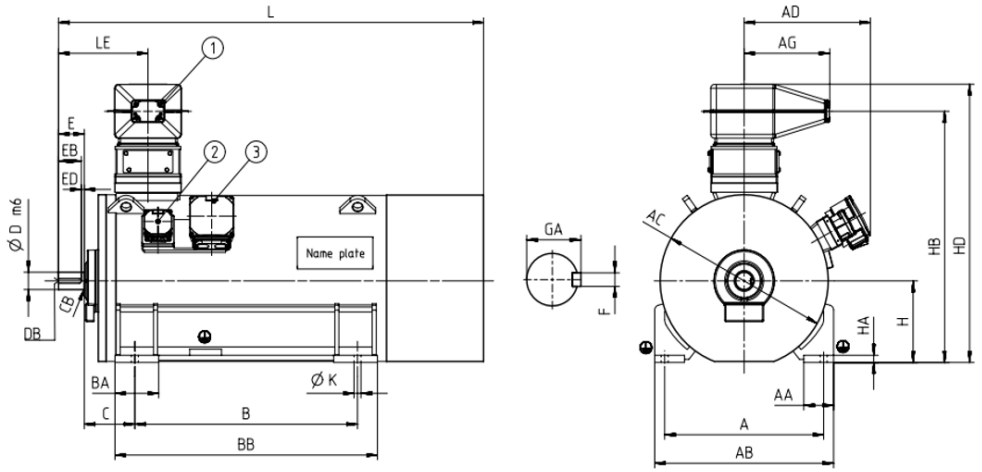
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n [2]	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																						
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
	2000	**1NC1 566-4AR40-4CG0**	1495	97.1	0.87	330	12775	2.70	83.0	2000	1490	1346	97.2	0.86	1010	1197	97.0	0.82	495	928	96.6	0.73
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	560	**1NC1 452-6AR40-4AG0**	993	96.0	0.81	100	5385	2.00	26.0	2200	415	894	96.1	0.80	285	796	96.2	0.78	140	618	95.7	0.69
	560	**1NC1 452-6AR40-4CG0**	993	96.2	0.84	96	5385	2.30	34.0	2200	415	894	96.2	0.82	285	796	96.2	0.79	140	617	95.7	0.70
	630	**1NC1 454-6AR40-4AG0**	994	96.2	0.81	112	6052	2.50	30.0	2200	470	896	96.2	0.79	320	797	96.1	0.74	155	618	95.5	0.63
	630	**1NC1 454-6AR40-4CG0**	995	96.3	0.83	110	6046	2.70	39.0	2200	470	896	96.3	0.81	320	797	96.2	0.76	155	618	95.5	0.64
	710	**1NC1 456-6AR40-4AG0**	995	96.3	0.81	126	6814	2.70	35.0	2200	530	896	96.3	0.78	360	797	96.2	0.73	175	618	95.4	0.61
	710	**1NC1 456-6AR40-4CG0**	995	96.4	0.83	124	6814	2.90	46.0	2200	530	896	96.4	0.80	360	797	96.2	0.75	175	618	95.4	0.62
	800	**1NC1 500-6AR40-4CG0**	995	96.4	0.86	134	7678	2.20	57.0	2100	595	896	96.6	0.85	405	797	96.6	0.83	195	618	96.3	0.73
	800	**1NC1 500-6AR40-4AG0**	993	96.2	0.83	140	7693	2.30	44.0	2100	595	895	96.4	0.82	405	796	96.5	0.80	200	618	96.2	0.72
	900	**1NC1 502-6AR40-4AG0**	994	96.3	0.84	154	8646	2.70	50.0	2100	670	895	96.5	0.83	455	797	96.5	0.79	220	618	96.0	0.69
	900	**1NC1 502-6AR40-4CG0**	996	96.4	0.86	150	8629	2.60	65.0	2100	670	896	96.6	0.85	455	797	96.6	0.81	220	618	96.2	0.70
	1000	**1NC1 504-6AR40-4AG0**	994	96.4	0.85	170	9607	2.60	57.0	2100	745	895	96.7	0.84	505	796	96.7	0.82	245	618	96.4	0.73
	1000	**1NC1 504-6AR40-4CG0**	995	96.6	0.87	166	9597	2.40	74.0	2100	745	896	96.8	0.86	505	797	96.8	0.83	245	618	96.5	0.74
	1120	**1NC1 506-6AR40-4AG0**	994	96.6	0.85	190	10760	2.80	65.0	2100	835	896	96.8	0.84	565	797	96.8	0.81	275	618	96.3	0.70
	1120	**1NC1 506-6AR40-4CG0**	996	96.8	0.86	186	10738	2.60	83.0	2100	835	897	96.9	0.85	565	798	96.9	0.82	275	618	96.5	0.72
	1250	**1NC1 562-6AR40-4CG0**	996	96.9	0.86	210	11985	3.10	116.0	2000	930	897	97.0	0.85	630	798	97.0	0.81	310	619	96.5	0.70
	1400	**1NC1 564-6AR40-4CG0**	996	97.0	0.87	230	13423	3.00	132.0	2000	1040	897	97.1	0.85	705	798	97.1	0.83	345	619	96.7	0.72
	1600	**1NC1 566-6AR40-4CG0**	996	97.2	0.87	265	15340	3.00	147.0	2000	1190	897	97.3	0.86	810	798	97.2	0.83	395	619	96.8	0.72
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - Square-law torque drive																						
	470	**1NC1 452-8AR40-4AG0**	744	95.6	0.77	89	6032	2.10	26.0	2200	350	670	95.8	0.77	240	596	95.8	0.74	115	463	95.2	0.63
	470	**1NC1 452-8AR40-4CG0**	744	95.7	0.80	85	6032	2.10	35.0	2200	350	670	95.8	0.79	240	596	95.7	0.75	115	463	95.0	0.63
	530	**1NC1 454-8AR40-4AG0**	744	95.8	0.78	98	6803	2.20	30.0	2200	395	670	95.9	0.76	270	597	95.9	0.73	130	463	95.3	0.61
	530	**1NC1 454-8AR40-4CG0**	745	95.9	0.80	96	6793	2.30	39.0	2200	395	671	95.9	0.78	270	597	95.8	0.73	130	463	95.1	0.61
	600	**1NC1 456-8AR40-4AG0**	745	96.0	0.78	112	7691	2.50	35.0	2200	445	671	96.1	0.75	305	597	95.9	0.71	150	463	95.2	0.58
	600	**1NC1 456-8AR40-4CG0**	745	96.0	0.79	110	7691	2.50	46.0	2200	445	671	96.0	0.76	305	597	95.8	0.71	150	463	95.0	0.58
	630	**1NC1 502-8AR40-4CG0**	745	95.6	0.85	108	8075	2.20	65.0	2100	470	671	95.7	0.83	320	597	95.7	0.80	155	463	95.1	0.70
	630	**1NC1 502-8AR40-4AG0**	744	95.6	0.80	114	8086	1.90	50.0	2100	470	670	95.8	0.80	320	597	95.9	0.77	155	463	95.4	0.69
	710	**1NC1 504-8AR40-4AG0**	745	95.9	0.80	128	9101	2.30	56.0	2100	530	671	95.9	0.78	360	597	95.9	0.74	175	463	95.1	0.63
	710	**1NC1 504-8AR40-4CG0**	746	95.8	0.84	122	9088	2.70	73.0	2100	530	672	95.8	0.81	360	597	95.7	0.76	175	463	94.8	0.64
	800	**1NC1 506-8AR40-4AG0**	746	95.9	0.81	142	10241	2.50	64.0	2100	595	672	95.9	0.78	405	597	95.9	0.73	200	463	95.0	0.61
	800	**1NC1 506-8AR40-4CG0**	746	95.8	0.83	140	10241	2.90	83.0	2100	595	672	95.7	0.80	405	598	95.6	0.75	195	464	94.6	0.62
	900	**1NC1 562-8AR40-4CG0**	746	96.6	0.83	156	11521	2.70	115.0	2000	670	672	96.7	0.82	455	598	96.6	0.77	220	464	96.2	0.65
	1000	**1NC1 564-8AR40-4CG0**	746	96.7	0.84	170	12801	2.70	132.0	2000	745	672	96.8	0.82	505	598	96.7	0.78	245	464	96.3	0.65
	1120	**1NC1 566-8AR40-4CG0**	746	96.8	0.83	194	14337	2.90	147.0	2000	835	672	96.8	0.82	565	598	96.7	0.77	275	464	96.2	0.64



Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 452-2AR40-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 452-2AR40-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AR40-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AR40-4CG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AR40-4AG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AR40-4CG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 502-2AR40-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 502-2AR40-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 504-2AR40-4AG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 504-2AR40-4CG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 506-2AR40-4AG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 506-2AR40-4CG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 564-2AR40-4CG0	8095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	1557	o.r.	1690	o.r.	2598	o.r.
1NC1 566-2AR40-4CG0	8495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	1557	o.r.	1690	o.r.	2598	o.r.
4-pole																			
1NC1 452-4AR40-4AG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-4AR40-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AR40-4AG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AR40-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AR40-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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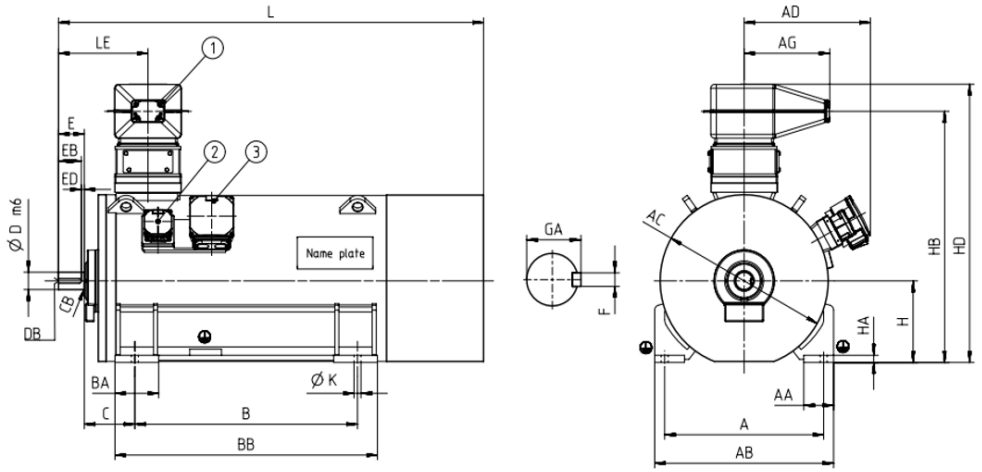

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 456-4AR40-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-4AR40-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-4AR40-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AR40-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AR40-4AG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AR40-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AR40-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 560-4AR40-4CG0	7695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 560-4AR40-4AG0	7395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AR40-4CG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AR40-4AG0	7895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AR40-4AG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AR40-4CG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AR40-4AG0	8695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AR40-4CG0	9095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
6-pole																			
1NC1 452-6AR40-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-6AR40-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AR40-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AR40-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AR40-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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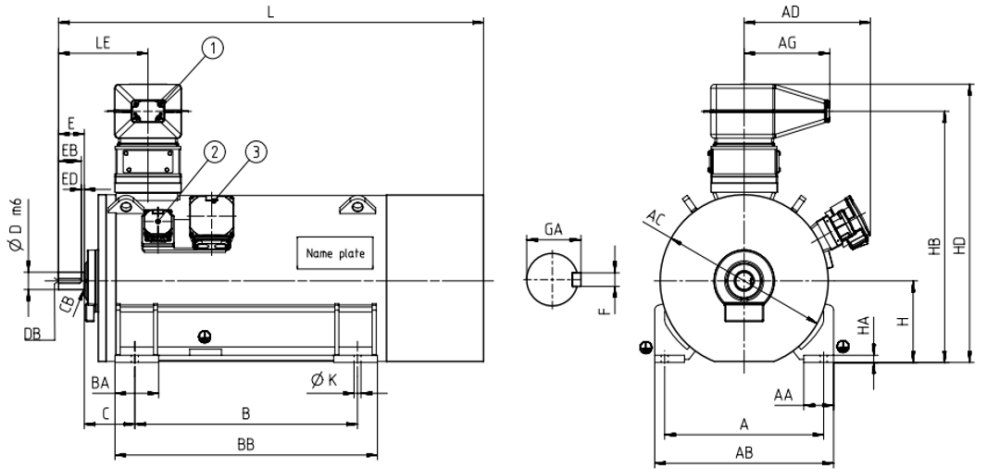

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 456-6AR40-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 500-6AR40-4CG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 500-6AR40-4AG0	5575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AR40-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AR40-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AR40-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AR40-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AR40-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AR40-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-6AR40-4CG0	8395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-6AR40-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-6AR40-4CG0	9495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
8-pole																			
1NC1 452-8AR40-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-8AR40-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AR40-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AR40-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AR40-4AG0	5025	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AR40-4CG0	5225	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-8AR40-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-8AR40-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.

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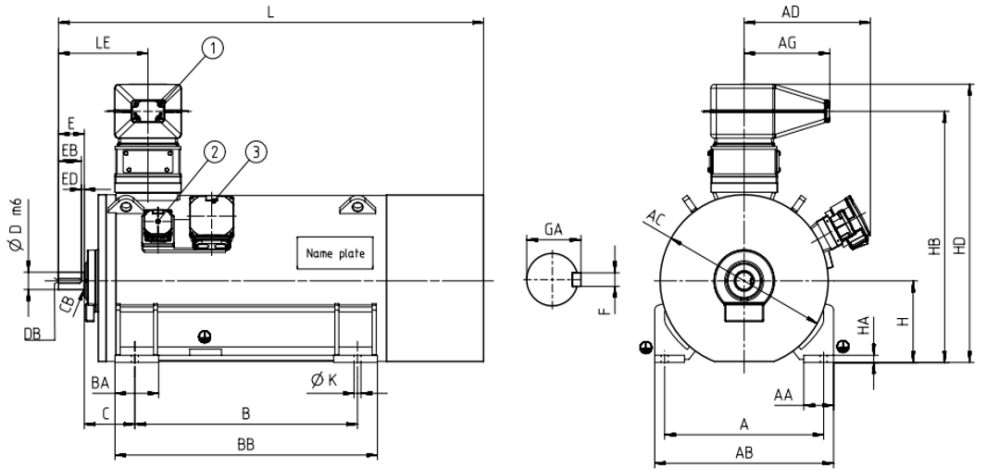

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 504-8AR40-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AR40-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AR40-4AG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AR40-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-8AR40-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-8AR40-4CG0	8895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-8AR40-4CG0	9495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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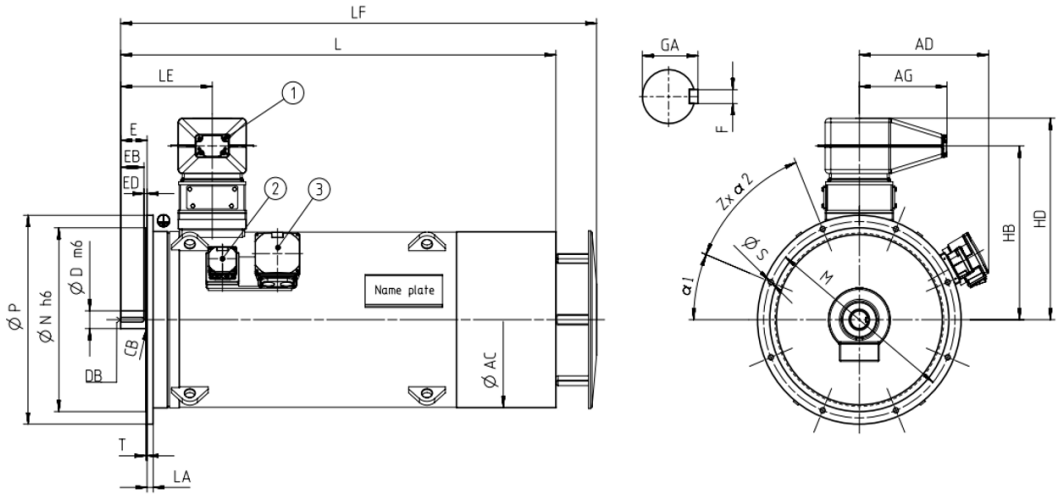

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NC1 452-4AR44-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AR44-4CG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AR44-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AR44-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AR44-4AG0	5800	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AR44-4CG0	6000	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AR44-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AR44-4AG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AR44-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AR44-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AR44-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AR44-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 560-4AR44-4CG0	9000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 560-4AR44-4AG0	8700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AR44-4CG0	9400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AR44-4AG0	9100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AR44-4AG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AR44-4CG0	9800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AR44-4AG0	10000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AR44-4CG0	10400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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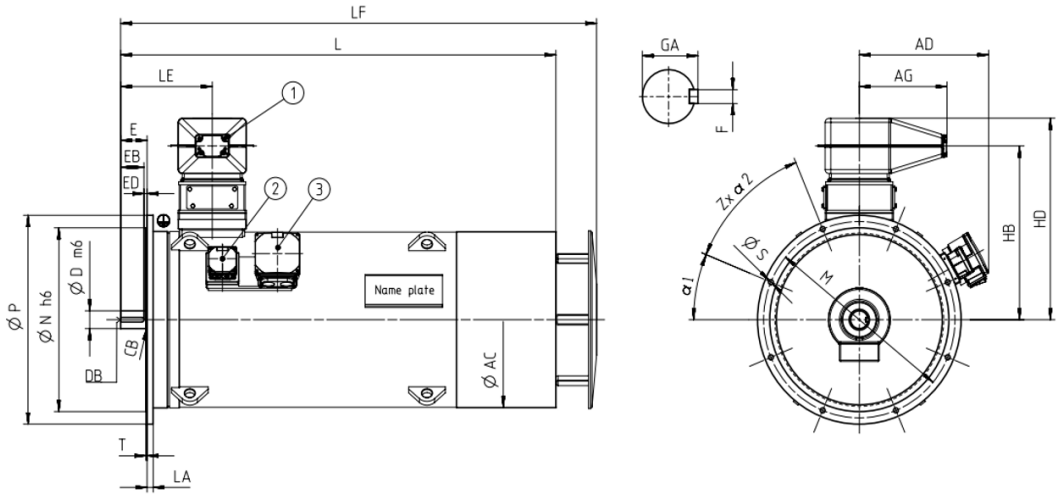
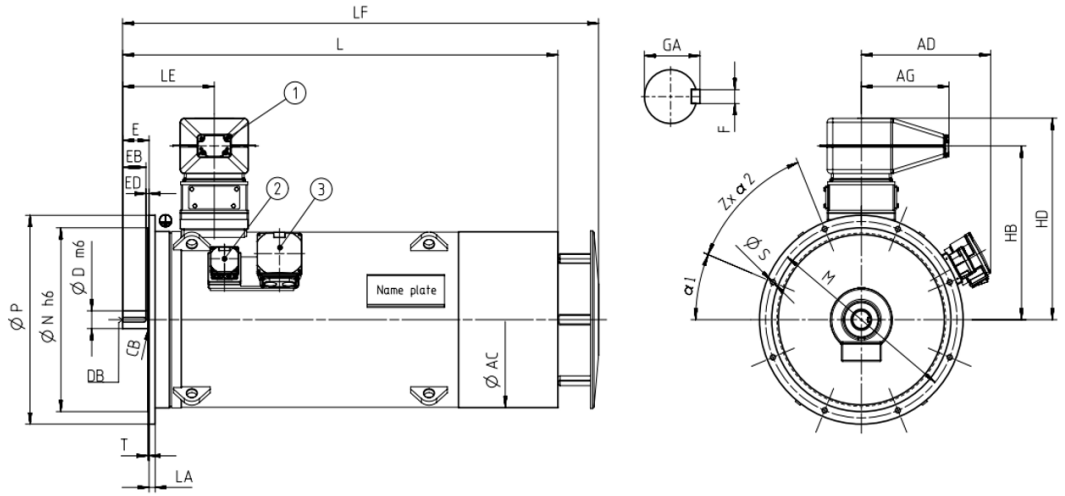


Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
6-pole													
1NC1 452-6AR44-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AR44-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AR44-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AR44-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AR44-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AR44-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AR44-4CG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 500-6AR44-4AG0	6500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AR44-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AR44-4CG0	7000	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AR44-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AR44-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AR44-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AR44-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-6AR44-4CG0	9700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AR44-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AR44-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole													
1NC1 452-8AR44-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AR44-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8



Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 454-8AR44-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AR44-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AR44-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AR44-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-8AR44-4CG0	7000	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AR44-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AR44-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AR44-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AR44-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AR44-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AR44-4CG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-8AR44-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AR44-4CG0	10700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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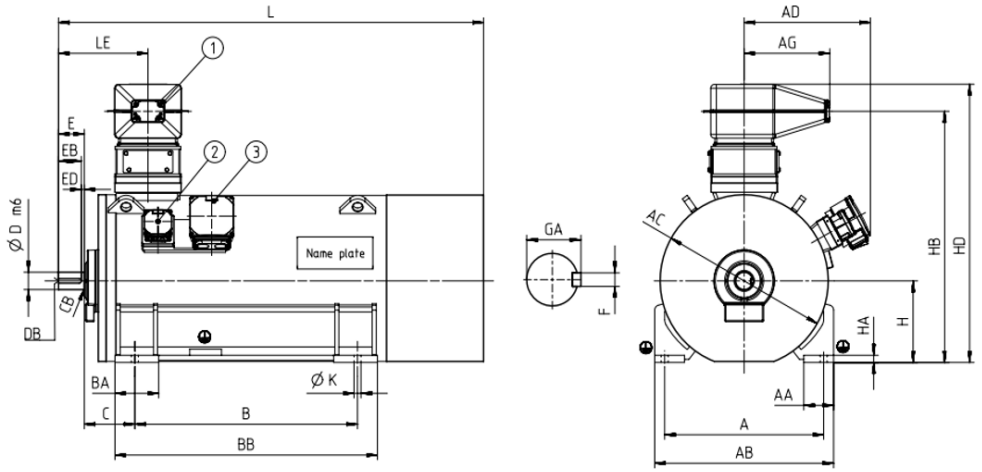
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power IEC		SIMOTICS HV C VSD M ~n ^{2}	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
											P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit												
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	800	**1NC1 452-2AR30-4CG0**	3584	96.3	0.90	128	2132	2.60	15.0	3600	605	3287	96.3	0.89	405	2870	96.2	0.86	200	2274	95.6	0.80
	900	**1NC1 454-2AR30-4CG0**	3587	96.5	0.90	144	2396	3.10	17.0	3600	680	3289	96.5	0.88	455	2872	96.3	0.85	225	2275	95.7	0.77
	1000	**1NC1 456-2AR30-4CG0**	3588	96.6	0.90	160	2661	3.40	19.0	3600	755	3290	96.6	0.88	505	2873	96.4	0.85	250	2276	95.7	0.76
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	800	**1NC1 452-4AR30-4AG0**	1794	96.3	0.81	142	4258	4.00	18.0	2400	605	1645	96.1	0.78	405	1437	95.7	0.71	200	1138	94.6	0.56
	800	**1NC1 452-4AR30-4CG0**	1794	96.3	0.82	140	4258	3.30	23.0	2400	605	1645	96.1	0.78	405	1436	95.8	0.72	200	1138	94.8	0.58
	900	**1NC1 454-4AR30-4AG0**	1795	96.4	0.81	160	4788	4.20	20.0	2400	680	1646	96.2	0.77	455	1437	95.9	0.70	225	1138	94.8	0.55
	900	**1NC1 454-4AR30-4CG0**	1794	96.4	0.82	158	4791	3.40	26.0	2400	680	1646	96.3	0.78	455	1437	96.0	0.72	225	1138	95.0	0.58
	1000	**1NC1 456-4AR30-4AG0**	1795	96.5	0.82	176	5320	4.30	23.0	2400	755	1646	96.3	0.78	505	1437	96.0	0.71	250	1138	94.8	0.56
	1000	**1NC1 456-4AR30-4CG0**	1795	96.5	0.82	176	5320	3.60	30.0	2400	755	1646	96.4	0.79	505	1437	96.0	0.72	250	1138	95.1	0.58
	1120	**1NC1 502-4AR30-4CG0**	1794	96.1	0.85	190	5962	2.60	35.0	2200	850	1645	96.1	0.83	565	1436	96.0	0.79	280	1138	95.3	0.69
	1120	**1NC1 502-4AR30-4AG0**	1794	96.0	0.86	188	5962	3.30	26.0	2200	850	1645	95.9	0.84	565	1436	95.7	0.78	280	1138	95.0	0.67
	1250	**1NC1 504-4AR30-4AG0**	1793	96.2	0.87	205	6657	3.30	30.0	2200	945	1645	96.1	0.85	630	1436	96.0	0.81	315	1138	95.3	0.70
	1250	**1NC1 504-4AR30-4CG0**	1794	96.3	0.86	210	6654	2.60	40.0	2200	945	1645	96.3	0.85	630	1436	96.2	0.81	315	1138	95.5	0.71
	1400	**1NC1 506-4AR30-4AG0**	1794	96.3	0.87	230	7452	3.80	35.0	2200	1060	1645	96.2	0.85	705	1436	96.0	0.79	355	1138	95.2	0.67
	1400	**1NC1 506-4AR30-4CG0**	1795	96.5	0.86	235	7448	3.00	45.0	2200	1060	1646	96.4	0.84	705	1437	96.2	0.80	355	1138	95.5	0.69
	1600	**1NC1 560-4AR30-4CG0**	1793	96.3	0.84	275	8521	2.10	60.0	2000	1210	1645	96.3	0.84	810	1436	96.1	0.81	405	1138	95.7	0.73
	1600	**1NC1 560-4AR30-4AG0**	1794	96.1	0.86	270	8517	2.40	44.0	2000	1210	1645	96.1	0.85	810	1436	95.9	0.81	405	1138	95.4	0.72
	1800	**1NC1 562-4AR30-4CG0**	1794	96.5	0.86	300	9581	2.40	68.0	2000	1365	1645	96.5	0.85	910	1436	96.3	0.82	455	1138	95.8	0.73
	1800	**1NC1 562-4AR30-4AG0**	1794	96.4	0.87	300	9581	2.80	50.0	2000	1365	1645	96.3	0.86	910	1437	96.1	0.82	455	1138	95.5	0.72
	2000	**1NC1 564-4AR30-4AG0**	1795	96.6	0.88	325	10640	2.90	55.0	2000	1515	1646	96.4	0.86	1010	1437	96.2	0.82	505	1138	95.6	0.72
	2000	**1NC1 564-4AR30-4CG0**	1794	96.7	0.87	330	10646	2.50	75.0	2000	1515	1645	96.6	0.86	1010	1437	96.5	0.82	505	1138	95.9	0.73
	2200	**1NC1 566-4AR30-4AG0**	1795	96.7	0.88	360	11704	3.10	62.0	2000	1665	1646	96.6	0.86	1110	1437	96.3	0.82	555	1138	95.6	0.72
	2200	**1NC1 566-4AR30-4CG0**	1795	96.9	0.88	360	11704	2.70	83.0	2000	1665	1646	96.7	0.86	1110	1437	96.5	0.82	555	1138	95.9	0.72
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	630	**1NC1 452-6AR30-4AG0**	1194	96.1	0.79	116	5039	2.40	26.0	2200	475	1095	96.1	0.78	320	957	95.9	0.74	160	758	95.1	0.62
	630	**1NC1 452-6AR30-4CG0**	1194	96.3	0.82	110	5039	2.70	34.0	2200	475	1095	96.2	0.80	320	957	96.0	0.76	160	758	95.2	0.63
	710	**1NC1 454-6AR30-4AG0**	1195	96.3	0.80	128	5674	2.50	30.0	2200	540	1096	96.2	0.78	360	957	96.0	0.74	180	758	95.1	0.62
	710	**1NC1 454-6AR30-4CG0**	1195	96.4	0.83	124	5674	2.80	39.0	2200	540	1096	96.3	0.80	360	957	96.1	0.76	180	758	95.2	0.63
	800	**1NC1 456-6AR30-4AG0**	1195	96.4	0.81	142	6393	2.70	35.0	2200	605	1096	96.3	0.78	405	957	96.1	0.74	200	758	95.1	0.61
	800	**1NC1 456-6AR30-4CG0**	1195	96.5	0.83	138	6393	2.90	46.0	2200	605	1096	96.3	0.80	405	957	96.1	0.75	200	758	95.1	0.62
	900	**1NC1 500-6AR30-4CG0**	1195	96.4	0.86	150	7192	2.40	57.0	2100	680	1096	96.5	0.85	455	957	96.5	0.82	225	758	96.0	0.72
	900	**1NC1 500-6AR30-4AG0**	1194	96.3	0.83	156	7198	2.40	44.0	2100	680	1095	96.4	0.83	455	956	96.4	0.80	225	758	95.9	0.70
	1000	**1NC1 502-6AR30-4AG0**	1194	96.4	0.83	174	7998	2.50	50.0	2100	760	1095	96.5	0.83	505	957	96.5	0.80	250	758	95.9	0.70

SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD square-law torque																							
Rated power **IEC**		**SIMOTICS HV C VSD M ~n [2]**	Operating values at rated output for utilization F/B								Partial load values for square-law torque drive											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	P/P_{rated} 155(F) = 75%				P/P_{rated} 155(F) = 50%				P/P_{rated} 155(F) = 25%			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P	n	η	cos φ	P	n	η	cos φ	P	n	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	rpm	%	[-]	kW	rpm	%	[-]	kW	rpm	%	[-]
	1000	**1NC1 502-6AR30-4CG0**	1196	96.5	0.86	168	7984	2.50	65.0	2100	760	1096	96.6	0.85	505	957	96.6	0.82	250	758	96.0	0.71
	1120	**1NC1 504-6AR30-4AG0**	1194	96.6	0.85	190	8957	2.70	57.0	2100	850	1095	96.7	0.84	565	957	96.6	0.81	280	758	96.0	0.70
	1120	**1NC1 504-6AR30-4CG0**	1196	96.7	0.86	186	8942	2.60	74.0	2100	850	1097	96.7	0.85	565	957	96.7	0.82	280	758	96.1	0.72
	1250	**1NC1 506-6AR30-4AG0**	1195	96.6	0.85	210	9989	2.90	65.0	2100	945	1096	96.7	0.83	630	957	96.6	0.80	315	758	96.0	0.68
	1250	**1NC1 506-6AR30-4CG0**	1196	96.7	0.86	210	9980	2.80	83.0	2100	945	1097	96.8	0.85	630	958	96.7	0.81	315	759	96.1	0.70
	1400	**1NC1 562-6AR30-4CG0**	1196	96.8	0.86	235	11178	3.00	116.0	2000	1060	1097	96.9	0.85	705	958	96.8	0.82	350	758	96.2	0.71
	1600	**1NC1 564-6AR30-4CG0**	1196	97.0	0.87	265	12775	3.00	132.0	2000	1210	1097	97.0	0.86	805	958	96.9	0.83	405	758	96.4	0.73
	1800	**1NC1 566-6AR30-4CG0**	1196	97.1	0.87	295	14372	3.00	147.0	2000	1365	1097	97.1	0.86	910	958	97.0	0.84	455	758	96.4	0.73
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - Square-law torque drive																						
	560	**1NC1 452-8AR30-4AG0**	894	95.8	0.78	104	5982	2.20	26.0	2200	425	820	95.8	0.76	285	716	95.7	0.72	140	568	94.9	0.60
	560	**1NC1 452-8AR30-4CG0**	894	95.8	0.80	102	5982	2.30	35.0	2200	425	820	95.8	0.78	285	717	95.6	0.73	140	568	94.8	0.61
	630	**1NC1 454-8AR30-4AG0**	894	96.0	0.78	116	6729	2.20	30.0	2200	480	820	96.0	0.76	320	717	95.8	0.72	160	568	95.1	0.60
	630	**1NC1 454-8AR30-4CG0**	895	96.0	0.80	114	6722	2.30	39.0	2200	475	821	96.0	0.78	320	717	95.8	0.73	160	568	94.9	0.60
	710	**1NC1 456-8AR30-4AG0**	895	96.1	0.78	132	7575	2.40	35.0	2200	540	821	96.0	0.77	360	717	95.8	0.72	180	568	95.0	0.60
	710	**1NC1 456-8AR30-4CG0**	895	96.1	0.80	128	7575	2.40	46.0	2200	540	821	96.0	0.77	360	717	95.8	0.73	180	568	94.8	0.60
	710	**1NC1 502-8AR30-4CG0**	895	95.7	0.85	122	7575	2.30	65.0	2100	540	821	95.6	0.83	360	717	95.5	0.79	180	568	94.7	0.69
	710	**1NC1 502-8AR30-4AG0**	894	95.8	0.81	126	7584	1.90	50.0	2100	540	820	95.8	0.80	360	717	95.8	0.77	180	568	95.1	0.68
	800	**1NC1 504-8AR30-4AG0**	895	95.9	0.81	142	8536	2.30	56.0	2100	605	821	95.8	0.79	405	717	95.8	0.74	200	568	94.8	0.63
	800	**1NC1 504-8AR30-4CG0**	896	95.7	0.84	138	8526	2.70	73.0	2100	605	822	95.6	0.81	405	717	95.4	0.76	200	568	94.4	0.64
	900	**1NC1 506-8AR30-4AG0**	895	96.0	0.81	160	9603	2.30	64.0	2100	680	821	95.9	0.79	455	717	95.9	0.75	225	568	95.0	0.64
	900	**1NC1 506-8AR30-4CG0**	896	95.8	0.84	156	9592	2.70	83.0	2100	680	822	95.7	0.82	455	718	95.6	0.77	225	568	94.5	0.65
	1000	**1NC1 562-8AR30-4CG0**	896	96.5	0.84	172	10658	2.60	115.0	2000	760	822	96.5	0.83	505	718	96.4	0.79	250	568	95.9	0.67
	1120	**1NC1 564-8AR30-4CG0**	896	96.6	0.84	192	11937	2.70	132.0	2000	850	822	96.6	0.83	565	718	96.5	0.79	280	569	96.0	0.66
	1250	**1NC1 566-8AR30-4CG0**	897	96.7	0.83	215	13307	2.90	147.0	2000	945	822	96.6	0.81	630	718	96.5	0.77	315	569	95.7	0.64



Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 452-2AR30-4CG0	o.r.	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AR30-4CG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AR30-4CG0	5025	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
4-pole																			
1NC1 452-4AR30-4AG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-4AR30-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AR30-4AG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AR30-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AR30-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AR30-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-4AR30-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-4AR30-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AR30-4AG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AR30-4CG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AR30-4AG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AR30-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 560-4AR30-4CG0	7695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 560-4AR30-4AG0	7395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AR30-4CG0	8095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AR30-4AG0	7795	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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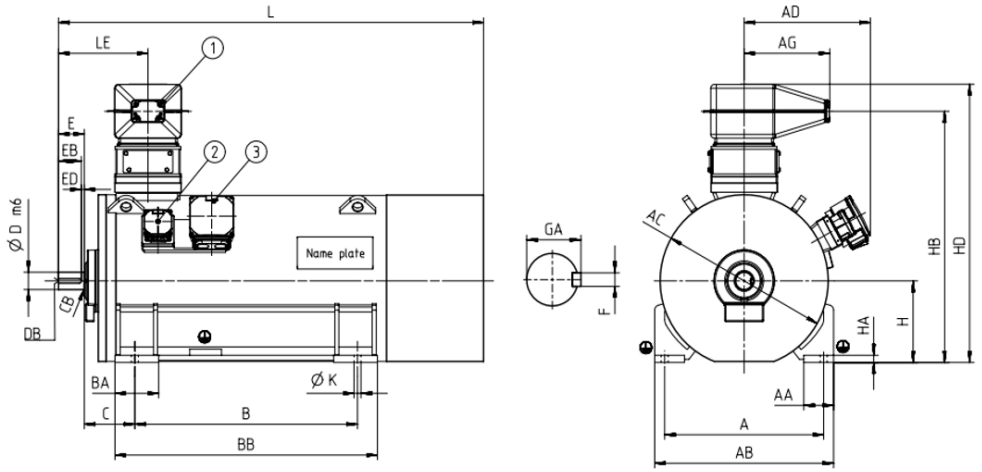

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 564-4AR30-4AG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AR30-4CG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AR30-4AG0	8695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AR30-4CG0	9095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
6-pole																			
1NC1 452-6AR30-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-6AR30-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AR30-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AR30-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AR30-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AR30-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 500-6AR30-4CG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 500-6AR30-4AG0	5475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AR30-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AR30-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AR30-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AR30-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AR30-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AR30-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-6AR30-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-6AR30-4CG0	8895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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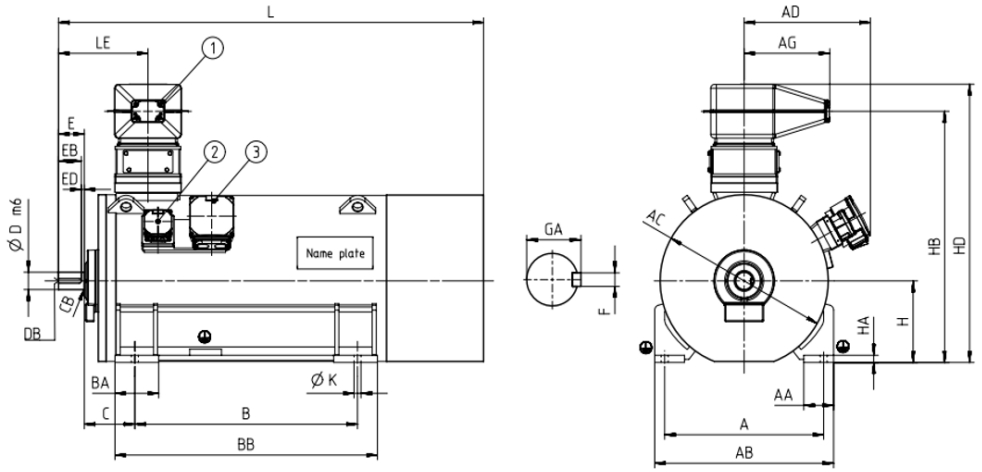

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 566-6AR30-4CG0	9495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
8-pole																			
1NC1 452-8AR30-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-8AR30-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AR30-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AR30-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AR30-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AR30-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-8AR30-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-8AR30-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AR30-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AR30-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AR30-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AR30-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-8AR30-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-8AR30-4CG0	8895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-8AR30-4CG0	9395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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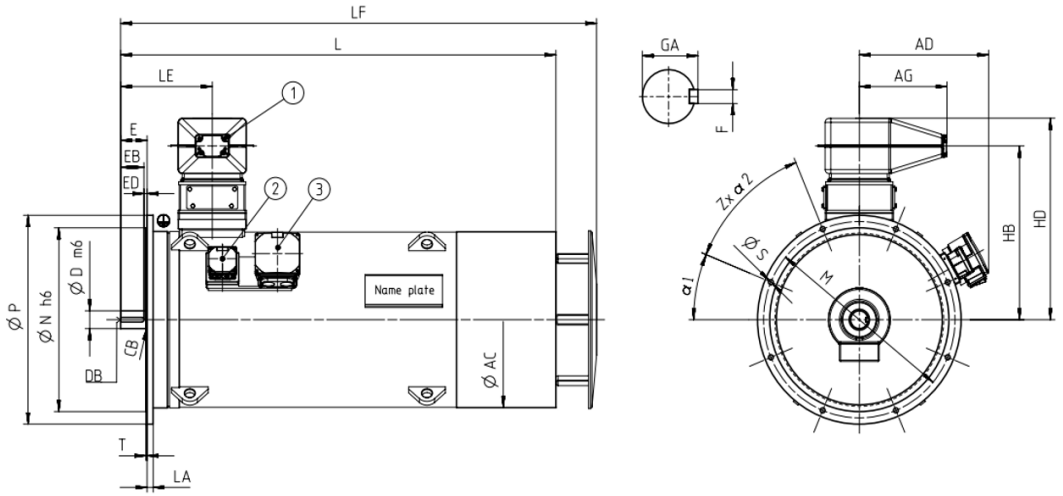

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NC1 452-4AR34-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AR34-4CG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AR34-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AR34-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AR34-4AG0	5800	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AR34-4CG0	6000	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AR34-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AR34-4AG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AR34-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AR34-4CG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AR34-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AR34-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 560-4AR34-4CG0	9000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 560-4AR34-4AG0	8700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AR34-4CG0	9400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AR34-4AG0	9100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AR34-4AG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AR34-4CG0	9800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AR34-4AG0	10000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AR34-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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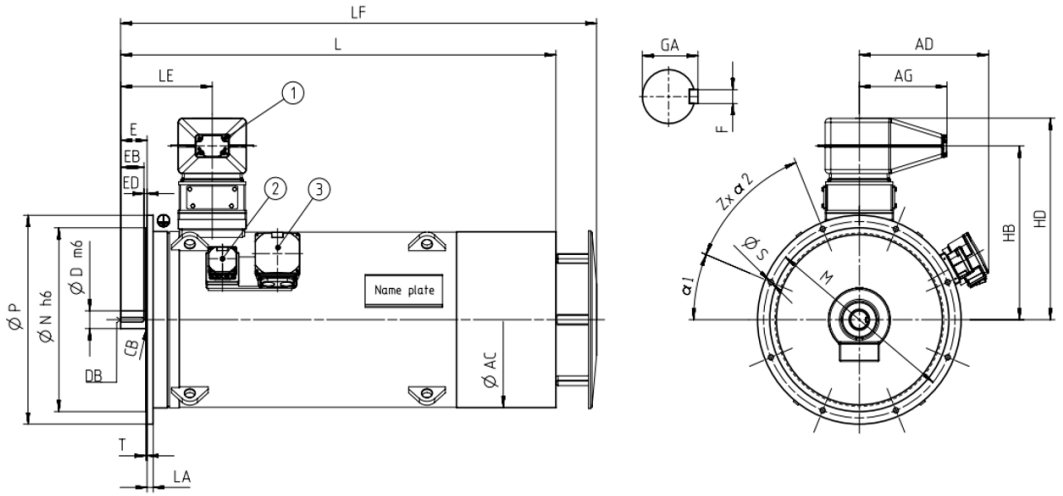

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
6-pole													
1NC1 452-6AR34-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AR34-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AR34-4AG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AR34-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AR34-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AR34-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AR34-4CG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 500-6AR34-4AG0	6500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AR34-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AR34-4CG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AR34-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AR34-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AR34-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AR34-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-6AR34-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AR34-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AR34-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole													
1NC1 452-8AR34-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AR34-4CG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8

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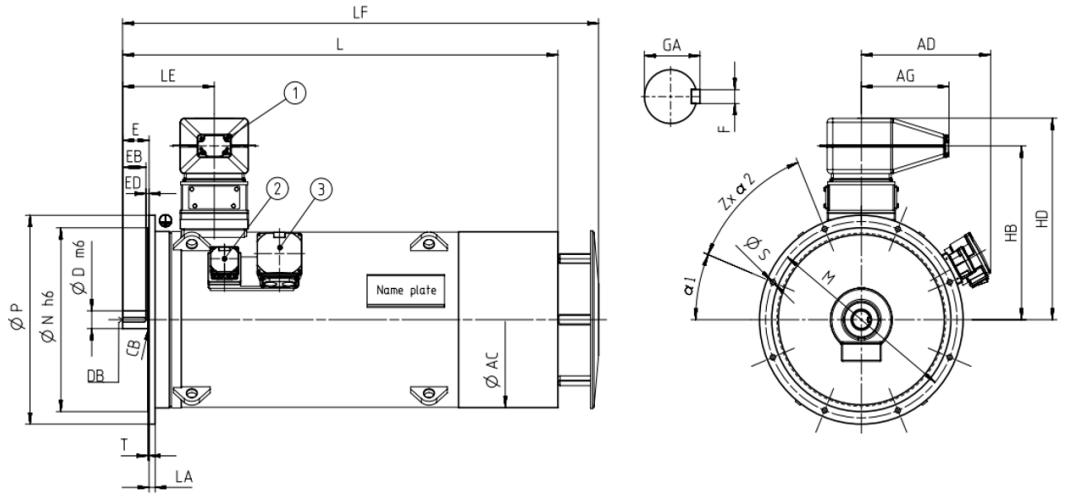

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NC1 454-8AR34-4AG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AR34-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AR34-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AR34-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-8AR34-4CG0	7000	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AR34-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AR34-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AR34-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AR34-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AR34-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AR34-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-8AR34-4CG0	10100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AR34-4CG0	10700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - const torque drive																						
780	690	**1NA1 402-2AC00-0A.0**	2979	96.5	0,93	730	2500	3,30	10.0	3600	310	2006	96.0	0,92	95	1577	93.8	0,89	45	1412	90.2	0,88
770	680	**1NA1 402-2AC00-0C.0**	2980	96.4	0,93	720	2467	3,30	12.3	3600	310	1980	95.8	0,91	95	1556	93.6	0,88	40	1393	90.1	0,88
800	710	**1NA1 404-2AC00-0A.0**	2979	96.5	0,94	740	2564	3,60	11.0	3600	320	2057	95.9	0,93	100	1617	93.8	0,90	45	1448	90.3	0,90
800	710	**1NA1 404-2AC00-0C.0**	2980	96.4	0,94	740	2564	3,50	13.5	3600	320	2057	95.8	0,93	100	1617	93.6	0,90	45	1448	90.2	0,89
920	810	**1NA1 406-2AC00-0A.0**	2980	96.7	0,94	850	2948	3,60	12.2	3600	370	2365	96.2	0,93	115	1859	94.3	0,90	50	1665	91.2	0,89
910	800	**1NA1 406-2AC00-0C.0**	2981	96.7	0,94	840	2915	3,60	14.9	3600	365	2338	96.1	0,92	115	1838	94.2	0,89	50	1646	91.2	0,88
950	840	**1NA1 408-2AC00-0A.0**	2982	96.8	0,95	860	3042	4,40	13.0	3600	380	2442	96.2	0,93	120	1920	94.3	0,90	50	1719	91.3	0,89
950	840	**1NA1 408-2AC00-0C.0**	2983	96.7	0,95	870	3041	4,30	15.9	3600	380	2441	96.1	0,92	120	1919	94.2	0,89	50	1719	91.3	0,88
1050	930	**1NA1 454-2AC00-0A.0**	2982	96.9	0,94	960	3362	2,70	14.1	3600	420	2696	96.4	0,93	130	2120	94.5	0,91	60	1898	91.2	0,91
1050	930	**1NA1 454-2AC00-0C.0**	2983	96.8	0,94	970	3361	2,60	19.1	3600	420	2697	96.4	0,93	130	2120	94.4	0,91	60	1899	91.2	0,91
1200	1060	**1NA1 456-2AC00-0A.0**	2985	97.2	0,94	1100	3839	3,20	15.6	3600	480	3080	96.8	0,93	150	2421	95.1	0,91	65	2168	92.4	0,91
1200	1060	**1NA1 456-2AC00-0C.0**	2985	97.1	0,94	1100	3839	3,00	21.0	3600	480	3080	96.7	0,93	150	2421	95.0	0,91	65	2168	92.4	0,91
1220	1080	**1NA1 458-2AC00-0A.0**	2985	97.2	0,95	1100	3903	3,20	16.8	3600	490	3133	96.7	0,93	150	2462	95.1	0,91	65	2205	92.4	0,91
1220	1080	**1NA1 458-2AC00-0C.0**	2986	97.1	0,95	1100	3902	3,10	22.7	3600	490	3129	96.7	0,94	150	2460	95.0	0,91	65	2203	92.4	0,91
1500	1320	**1NA1 504-2AC00-0AC0**	2986	97.0	0,90	1440	4797	3,30	22.6	3600	600	3848	96.5	0,90	190	3025	95.0	0,88	85	2708	92.6	0,87
1510	1330	**1NA1 504-2AC00-0C.0**	2987	96.9	0,91	1440	4827	3,20	28.0	3000	605	3873	96.3	0,90	190	3044	94.8	0,88	85	2726	92.6	0,87
1820	1600	**1NA1 506-2AC00-0AC0**	2984	97.2	0,91	1720	5824	3,00	25.7	3600	705	4531	96.5	0,91	230	3747	94.6	0,90	105	3485	91.6	0,90
1570	1380	**1NA1 506-2AC00-0C.0**	2987	96.9	0,92	1480	5019	3,30	31.0	3000	630	4026	96.3	0,91	195	3165	94.8	0,89	85	2834	92.6	0,88
1810	1590	**1NA1 508-2AC00-0AC0**	2989	97.3	0,91	1720	5783	4,10	28.1	3600	725	4638	96.6	0,90	225	3646	95.2	0,87	100	3265	93.3	0,86
1820	1600	**1NA1 508-2AC00-0C.0**	2989	97.2	0,91	1720	5815	3,80	34.0	3000	730	4663	96.4	0,90	230	3666	95.1	0,87	100	3282	93.3	0,86
1960	1730	**1NA1 566-2AC00-0C.0**	2990	97.1	0,92	1840	6260	3,00	55.4	3000	785	5022	96.6	0,91	245	3947	95.3	0,90	110	3535	93.3	0,89
2150	1890	**1NA1 568-2AC00-0C.0**	2992	97.2	0,92	2000	6862	3,80	60.1	3000	860	5503	96.6	0,90	270	4326	95.3	0,88	120	3873	93.5	0,87
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - const torque drive																						
850	750	**1NA1 404-4AC00-0A.0**	1491	96.4	0,89	830	5444	3,20	15.6	2600	340	4368	95.0	0,87	105	3434	92.7	0,84	45	3075	89.2	0,83
850	750	**1NA1 404-4AC00-0C.0**	1489	96.4	0,89	830	5451	2,80	19.8	2600	340	4374	95.3	0,87	105	3438	92.9	0,85	45	3079	89.2	0,84
910	800	**1NA1 406-4AC00-0A.0**	1491	96.5	0,90	880	5828	3,50	17.4	2600	365	4674	95.1	0,87	115	3674	92.9	0,83	50	3290	89.7	0,82
910	800	**1NA1 406-4AC00-0C.0**	1490	96.5	0,89	890	5832	3,10	22.0	2600	365	4678	95.4	0,87	115	3678	93.2	0,84	50	3293	89.9	0,83
1000	880	**1NA1 408-4AC00-0A.0**	1492	96.6	0,90	960	6400	3,80	19.7	2600	400	5135	95.2	0,87	125	4036	93.1	0,83	55	3614	90.2	0,81
1000	880	**1NA1 408-4AC00-0C.0**	1491	96.7	0,89	970	6405	3,30	24.9	2600	400	5138	95.5	0,87	125	4039	93.5	0,84	55	3617	90.4	0,82
1150	1010	**1NA1 454-4AC00-0A.0**	1491	96.8	0,90	1100	7365	2,90	26.4	2400	460	5911	95.9	0,88	145	4646	93.7	0,85	65	4161	90.6	0,84
1150	1010	**1NA1 454-4AC00-0C.0**	1491	96.7	0,89	1120	7365	2,60	33.9	2400	460	5912	95.9	0,87	145	4647	93.8	0,85	65	4161	90.6	0,84
1250	1100	**1NA1 456-4AC00-0C.0**	1491	96.9	0,90	1200	8006	2,80	39.0	2400	500	6422	96.1	0,88	155	5048	94.1	0,85	70	4520	91.2	0,84
1260	1110	**1NA1 456-4AC00-0A.0**	1491	96.9	0,91	1200	8070	3,10	30.5	2400	505	6474	96.0	0,89	155	5089	94.0	0,86	70	4557	91.1	0,85
1410	1240	**1NA1 458-4AC00-0A.0**	1491	97.1	0,90	1360	9031	3,20	33.6	2400	565	7243	96.1	0,88	175	5693	94.2	0,85	80	5098	91.5	0,84

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SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1400	1230	**1NA1 458-4AC00-0C.0**	1492	97.0	0,89	1360	8960	2,80	42.8	2400	560	7189	96.2	0,87	175	5651	94.4	0,84	75	5060	91.6	0,83
1470	1300	**1NA1 504-4AC00-0A.0**	1491	96.5	0,88	1440	9415	2,80	32.6	2200	590	7559	95.6	0,86	185	5942	93.4	0,84	80	5320	90.1	0,83
1470	1300	**1NA1 504-4AC00-0C.0**	1491	96.5	0,86	1480	9415	2,20	42.5	2200	590	7556	95.8	0,86	185	5940	93.7	0,84	80	5319	90.5	0,83
1560	1380	**1NA1 506-4AC00-0A.0**	1491	96.5	0,89	1520	9991	3,00	37.1	2200	625	8019	95.5	0,88	195	6303	93.3	0,85	85	5644	90.1	0,85
1550	1370	**1NA1 506-4AC00-0C.0**	1492	96.6	0,88	1520	9921	2,30	48.0	2200	620	7963	95.8	0,87	195	6260	93.7	0,85	85	5605	90.5	0,84
1760	1550	**1NA1 508-4AC00-0A.0**	1492	96.8	0,89	1700	11265	3,50	42.5	2200	705	9035	95.7	0,86	220	7103	93.8	0,83	95	6360	91.1	0,81
1770	1560	**1NA1 508-4AC00-0C.0**	1493	96.9	0,88	1740	11321	2,70	54.7	2200	710	9085	96.0	0,86	220	7142	94.2	0,83	100	6395	91.6	0,82
2020	1780	**1NA1 564-4AC00-0A.0**	1492	96.8	0,89	1960	12929	2,60	60.0	2000	810	10371	96.1	0,88	250	8153	94.4	0,86	110	7300	91.7	0,85
2010	1770	**1NA1 564-4AC00-0C.0**	1492	96.9	0,88	1980	12865	2,20	79.4	2000	805	10322	96.2	0,87	250	8114	94.4	0,86	110	7266	91.7	0,85
2075	1830	**1NA1 566-4AC00-0A.0**	1492	96.8	0,90	2000	13281	2,60	66.7	2000	830	10635	96.1	0,89	260	8360	94.3	0,87	115	7486	91.6	0,86
2070	1820	**1NA1 566-4AC00-0C.0**	1492	96.9	0,89	2000	13249	2,30	88.1	2000	830	10629	96.2	0,89	260	8355	94.4	0,87	115	7481	91.6	0,86
2220	1960	**1NA1 568-4AC00-0A.0**	1493	97.0	0,90	2150	14199	3,10	73.5	2000	890	11394	96.2	0,88	280	8956	94.5	0,86	125	8020	91.9	0,85
2220	1960	**1NA1 568-4AC00-0C.0**	1493	97.0	0,90	2150	14199	2,60	96.7	2000	890	11389	96.3	0,88	280	8952	94.6	0,86	125	8016	92.0	0,85
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - const torque drive																						
650	570	**1NA1 404-6AC00-0AA0**	995	96.1	0,87	650	6238	3,30	25.8	2400	260	5006	94.2	0,84	80	3935	91.2	0,81	35	3524	87.3	0,80
660	580	**1NA1 404-6AC00-0CA0**	994	96.2	0,87	660	6341	2,80	33.2	2400	265	5091	94.8	0,85	80	4002	91.9	0,83	35	3584	87.8	0,82
710	630	**1NA1 406-6AC00-0AA0**	995	96.2	0,88	700	6814	3,50	29.6	2400	285	5467	94.3	0,85	90	4297	91.4	0,81	40	3848	87.7	0,80
710	630	**1NA1 406-6AC00-0CA0**	994	96.3	0,88	700	6821	3,00	38.0	2400	285	5472	95.0	0,85	90	4302	92.2	0,82	40	3852	88.4	0,81
730	640	**1NA1 408-6AC00-0AA0**	995	96.2	0,87	730	7006	4,40	33.5	2400	290	5617	94.0	0,82	90	4416	91.1	0,77	40	3954	87.6	0,75
780	690	**1NA1 408-6AC00-0CA0**	995	96.4	0,87	780	7486	3,40	42.0	2400	310	6005	95.0	0,83	95	4721	92.4	0,79	45	4227	88.8	0,78
950	840	**1NA1 454-6AC00-0A.0**	993	96.3	0,86	960	9136	2,80	39.5	2200	380	7330	94.8	0,84	120	5762	92.0	0,81	50	5160	88.0	0,80
950	840	**1NA1 454-6AC00-0C.0**	992	96.4	0,85	970	9145	2,40	49.1	2200	380	7335	95.1	0,84	120	5766	92.4	0,82	50	5163	88.2	0,82
980	860	**1NA1 456-6AC00-0A.0**	995	96.5	0,85	1000	9405	3,60	45.9	2200	390	7546	94.7	0,80	120	5932	92.1	0,76	55	5312	88.4	0,75
1000	880	**1NA1 456-6AC00-0C.0**	994	96.6	0,85	1020	9607	3,10	56.8	2200	400	7706	95.2	0,82	125	6058	92.8	0,79	55	5424	89.2	0,77
1000	880	**1NA1 458-6AC00-0A.0**	995	96.6	0,85	1020	9597	3,90	54.3	2200	400	7696	95.0	0,80	125	6049	92.6	0,76	55	5417	89.5	0,74
1020	900	**1NA1 458-6AC00-0C.0**	995	96.8	0,86	1020	9789	3,40	67.0	2200	410	7854	95.4	0,82	125	6173	93.3	0,78	55	5528	90.2	0,76
1200	1060	**1NA1 502-6AC00-0A.0**	992	96.3	0,83	1260	11552	2,10	52.8	2100	480	9276	95.3	0,83	150	7292	92.6	0,83	65	6529	88.6	0,82
1260	1110	**1NA1 502-6AC00-0C.0**	993	96.5	0,86	1280	12117	1,90	67.6	2100	505	9719	95.7	0,86	155	7640	93.4	0,85	70	6841	89.8	0,85
1300	1150	**1NA1 504-6AC00-0C.0**	993	96.5	0,87	1300	12502	1,90	76.2	2100	520	10031	95.7	0,87	160	7885	93.3	0,86	70	7061	89.8	0,86
1230	1090	**1NA1 504-6AC00-0A.0**	992	96.3	0,85	1260	11840	2,10	59.7	2100	490	9504	95.2	0,85	155	7471	92.6	0,84	65	6690	88.8	0,84
1460	1290	**1NA1 506-6AC00-0C.0**	994	96.7	0,87	1460	14026	2,00	85.6	2100	585	11254	95.7	0,87	180	8846	93.5	0,85	80	7922	90.4	0,85
1400	1230	**1NA1 506-6AC00-0A.0**	993	96.5	0,86	1420	13463	2,30	67.4	2100	560	10811	95.3	0,85	175	8498	92.7	0,84	75	7610	89.3	0,83
1550	1370	**1NA1 508-6AC00-0A.0**	994	96.6	0,86	1560	14891	2,70	76.4	2100	620	11954	95.3	0,84	195	9397	92.9	0,82	85	8414	89.7	0,80
1650	1450	**1NA1 508-6AC00-0C.0**	995	96.8	0,87	1640	15836	2,30	96.8	2100	660	12705	95.8	0,86	205	9987	93.7	0,84	90	8943	90.8	0,82
2020	1780	**1NA1 564-6AC00-0C.0**	994	97.1	0,88	1980	19406	2,30	136.8	2000	810	15570	96.1	0,87	250	12239	93.9	0,87	110	10960	90.9	0,86

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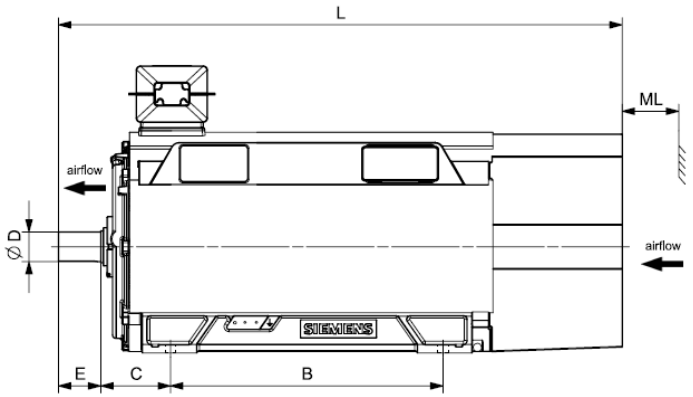
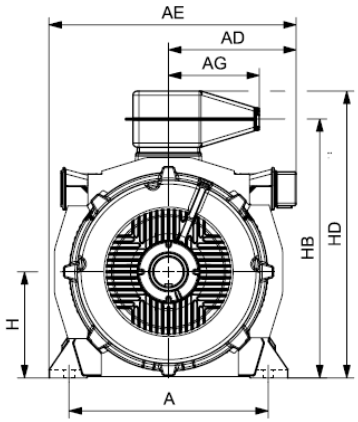
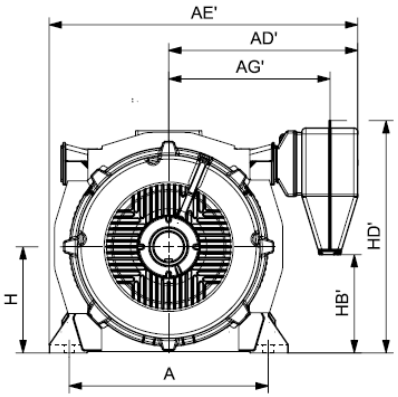
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2200	1940	**1NA1 566-6AC00-0C.0**	995	97.3	0,87	2150	21114	2,80	151.9	2000	880	16930	96.2	0,85	275	13308	94.3	0,83	120	11917	91.7	0,81
2260	1990	**1NA1 568-6AC00-0C.0**	995	97.3	0,88	2200	21690	2,70	167.0	2000	905	17397	96.2	0,87	280	13676	94.3	0,85	125	12246	91.7	0,84
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - const torque drive																						
500	440	**1NA1 404-8AC00-0AA0**	744	95.7	0,83	530	6418	2,90	26.7	2400	200	5153	93.2	0,80	60	4051	89.0	0,75	25	3627	83.4	0,75
500	440	**1NA1 404-8AC00-0CA0**	742	95.6	0,81	540	6435	2,50	32.8	2400	200	5165	93.4	0,79	60	4060	89.2	0,76	25	3636	83.3	0,75
540	480	**1NA1 406-8AC00-0AA0**	745	95.8	0,80	590	6922	3,80	30.6	2400	215	5552	92.7	0,73	65	4364	88.5	0,67	30	3908	83.1	0,66
540	480	**1NA1 406-8AC00-0CA0**	744	95.9	0,80	590	6931	3,10	37.6	2400	215	5560	93.4	0,75	65	4370	89.5	0,69	30	3913	84.1	0,68
560	490	**1NA1 408-8AC00-0AA0**	745	95.9	0,83	590	7178	3,50	33.8	2400	225	5761	93.1	0,78	70	4528	89.2	0,72	30	4055	84.2	0,71
560	490	**1NA1 408-8AC00-0CA0**	744	95.9	0,82	600	7188	3,00	41.5	2400	225	5768	93.6	0,78	70	4534	89.7	0,73	30	4060	84.6	0,72
750	660	**1NA1 454-8AC00-0A.0**	743	95.6	0,80	820	9639	2,30	40.0	2200	300	7737	93.6	0,78	95	6082	89.6	0,77	40	5446	84.0	0,76
750	660	**1NA1 454-8AC00-0C.0**	741	95.6	0,80	820	9665	2,30	48.8	2200	300	7753	93.6	0,79	95	6095	89.5	0,77	40	5458	83.5	0,77
800	710	**1NA1 456-8AC00-0A.0**	744	95.8	0,81	860	10268	2,60	46.4	2200	320	8243	93.6	0,78	100	6480	89.8	0,75	45	5802	84.5	0,74
800	710	**1NA1 456-8AC00-0C.0**	743	95.8	0,81	860	10282	2,60	56.4	2200	320	8258	93.8	0,78	100	6491	89.9	0,76	45	5813	84.4	0,75
900	790	**1NA1 458-8AC00-0A.0**	745	96.1	0,79	990	11536	3,00	54.9	2200	360	9258	93.9	0,74	110	7278	90.5	0,70	50	6517	85.9	0,69
900	790	**1NA1 458-8AC00-0C.0**	744	96.2	0,79	990	11552	3,10	66.6	2200	360	9270	94.3	0,76	110	7287	90.9	0,72	50	6525	86.1	0,70
1000	880	**1NA1 504-8AC00-0A.0**	743	95.8	0,80	1100	12852	1,70	58.9	2100	400	10319	94.6	0,80	125	8112	91.5	0,78	55	7264	86.9	0,78
1000	880	**1NA1 504-8AC00-0C.0**	744	95.9	0,85	1020	12835	2,00	75.7	2100	400	10307	94.6	0,83	125	8102	91.8	0,81	55	7255	87.5	0,80
1120	990	**1NA1 506-8AC00-0A.0**	743	96.0	0,81	1200	14395	1,90	66.4	2100	450	11548	94.6	0,80	140	9078	91.6	0,78	60	8129	87.2	0,77
1120	990	**1NA1 506-8AC00-0C.0**	744	96.0	0,85	1140	14375	2,10	85.2	2100	450	11534	94.6	0,83	140	9066	91.8	0,80	60	8119	87.7	0,79
1190	1050	**1NA1 508-8AC00-0A.0**	744	96.0	0,82	1260	15274	1,90	75.3	2100	475	12265	94.6	0,81	150	9641	91.7	0,78	65	8633	87.4	0,78
1190	1050	**1NA1 508-8AC00-0C.0**	744	96.0	0,85	1220	15274	2,20	96.4	2100	475	12250	94.6	0,83	150	9629	91.8	0,80	65	8623	87.9	0,79
1500	1320	**1NA1 564-8AC00-0C.0**	744	96.6	0,85	1520	19253	2,00	136.4	2000	600	15450	95.5	0,84	185	12145	92.7	0,83	80	10875	88.9	0,82
1600	1410	**1NA1 566-8AC00-0C.0**	744	96.7	0,85	1620	20536	1,90	151.8	2000	640	16483	95.6	0,85	200	12957	92.9	0,84	85	11602	89.2	0,83
1700	1500	**1NA1 568-8AC00-0C.0**	745	96.8	0,85	1720	21790	2,20	167.1	2000	680	17490	95.5	0,84	210	13748	93.1	0,82	95	12311	89.8	0,81







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2AC00-0A.0	3300	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 402-2AC00-0C.0	3400	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 404-2AC00-0A.0	3500	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 404-2AC00-0C.0	3600	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 406-2AC00-0A.0	3700	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 406-2AC00-0C.0	3800	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 408-2AC00-0A.0	3800	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 408-2AC00-0C.0	3900	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 454-2AC00-0A.0	4500	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 454-2AC00-0C.0	4700	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 456-2AC00-0A.0	4800	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 456-2AC00-0C.0	5000	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 458-2AC00-0A.0	5000	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 458-2AC00-0C.0	5200	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 504-2AC00-0AC0	6000	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 504-2AC00-0C.0	6200	950	610	1029	1175	1594	371	885	1320	280	110	165	500	1343	522	1508	1194	2472	200
1NA1 506-2AC00-0AC0	6400	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 506-2AC00-0C.0	6600	950	610	1029	1175	1594	371	885	1320	280	110	165	500	1343	522	1508	1194	2472	200
1NA1 508-2AC00-0AC0	6700	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 508-2AC00-0C.0	6900	950	610	1029	1175	1594	371	885	1320	280	110	165	500	1343	522	1508	1194	2472	200
1NA1 566-2AC00-0C.0	8800	1060	670	1089	1305	1724	371	945	1400	290	120	165	560	1470	627	1635	1300	2642	225
1NA1 568-2AC00-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	290	120	165	560	1470	627	1635	1300	2642	225

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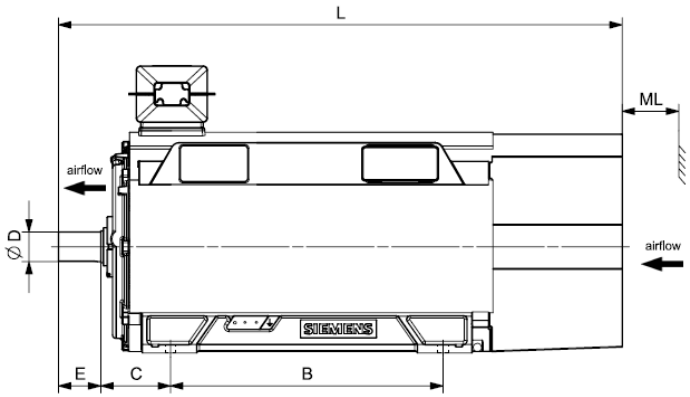

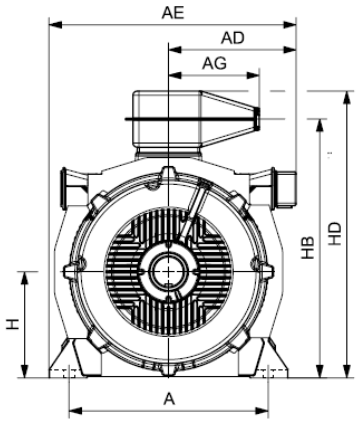

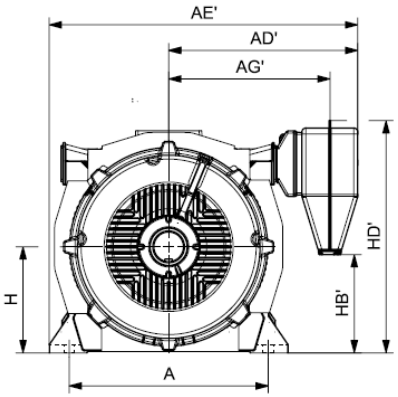

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
4-pole																			
1NA1 404-4AC00-0A.0	3500	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-4AC00-0C.0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-4AC00-0A.0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-4AC00-0C.0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-4AC00-0A.0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-4AC00-0C.0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-4AC00-0A.0	4700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-4AC00-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-4AC00-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-4AC00-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-4AC00-0A.0	5300	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-4AC00-0C.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 504-4AC00-0A.0	6200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-4AC00-0C.0	6500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-4AC00-0A.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-4AC00-0C.0	6900	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-4AC00-0A.0	7200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-4AC00-0C.0	7400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-4AC00-0A.0	8400	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 564-4AC00-0C.0	8700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-4AC00-0A.0	8900	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-4AC00-0C.0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225

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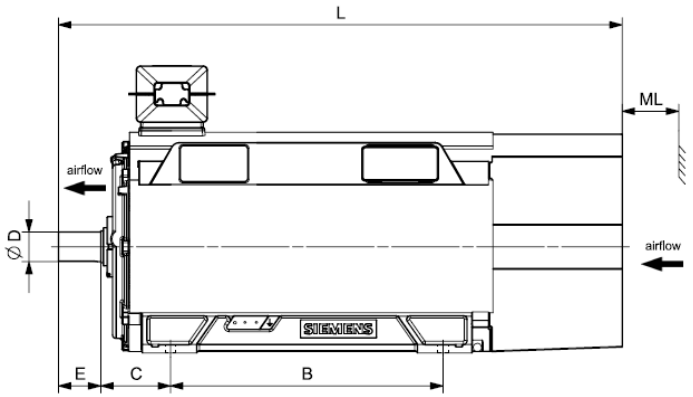

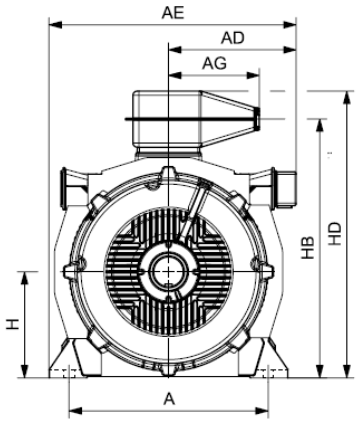

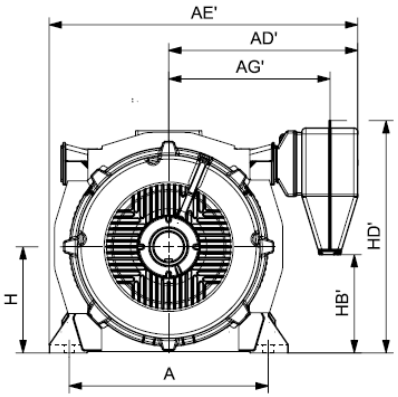

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 568-4AC00-0A.0	9300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-4AC00-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
6-pole																			
1NA1 404-6AC00-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-6AC00-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-6AC00-0AA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-6AC00-0CA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-6AC00-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-6AC00-0CA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-6AC00-0A.0	4600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-6AC00-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-6AC00-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-6AC00-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-6AC00-0A.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-6AC00-0C.0	5700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 502-6AC00-0A.0	6000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 502-6AC00-0C.0	6300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-6AC00-0C.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-6AC00-0A.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-6AC00-0C.0	7100	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-6AC00-0A.0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-6AC00-0A.0	7200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-6AC00-0C.0	7500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200

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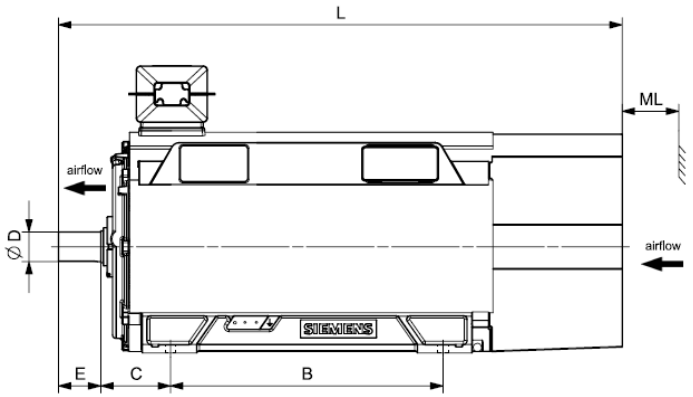

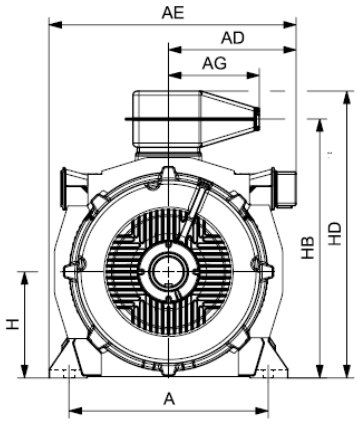

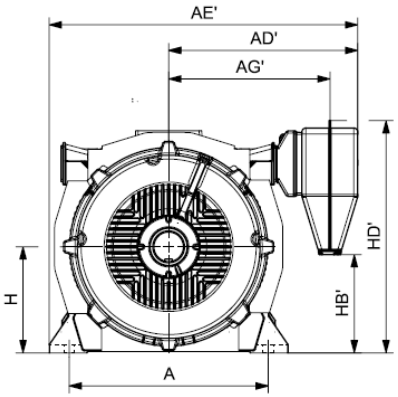

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 564-6AC00-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-6AC00-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-6AC00-0C.0	10300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
8-pole																			
1NA1 404-8AC00-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-8AC00-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-8AC00-0AA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-8AC00-0CA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-8AC00-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-8AC00-0CA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-8AC00-0A.0	4600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-8AC00-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-8AC00-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-8AC00-0C.0	5100	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-8AC00-0A.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-8AC00-0C.0	5700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 504-8AC00-0A.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-8AC00-0C.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-8AC00-0A.0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-8AC00-0C.0	7000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-8AC00-0A.0	7300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-8AC00-0C.0	7600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-8AC00-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225

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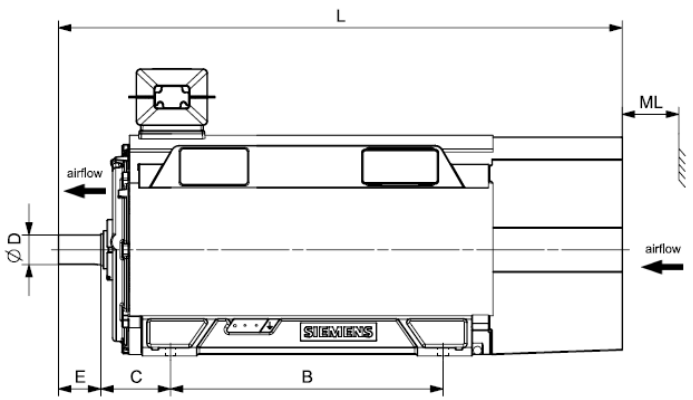

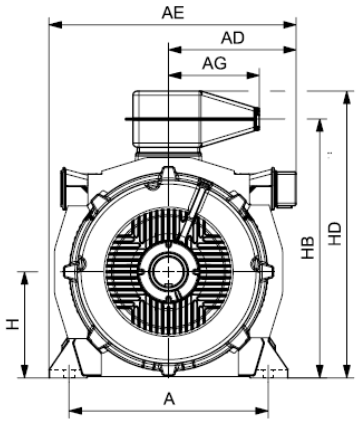

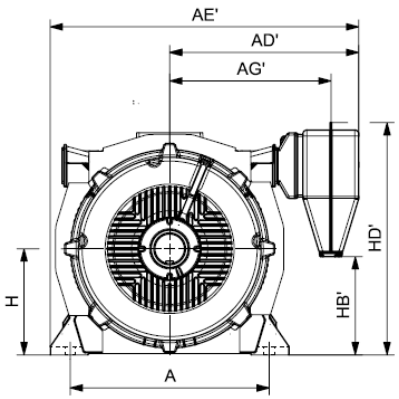

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 566-8AC00-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-8AC00-0C.0	10300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225

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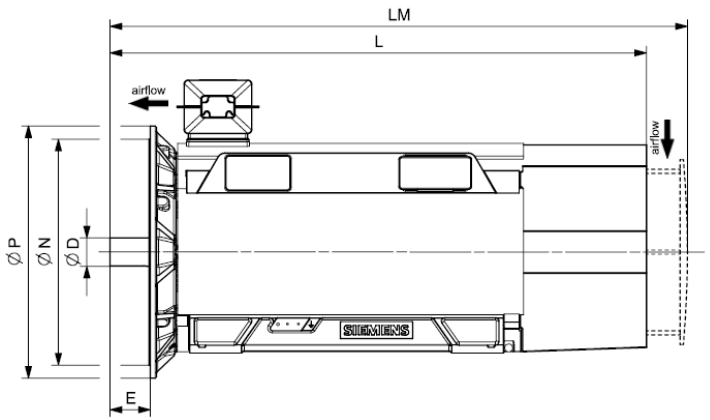

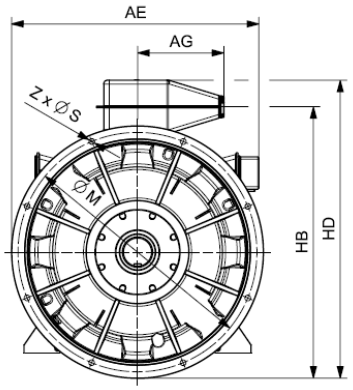

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 404-4AC04-0AA0	3600	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-4AC04-0CA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-4AC04-0AA0	3800	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-4AC04-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-4AC04-0AA0	4100	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-4AC04-0CA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-4AC04-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-4AC04-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-4AC04-0CA0	5400	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-4AC04-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-4AC04-0AA0	5500	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-4AC04-0CA0	5700	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 504-4AC04-0AA0	6400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-4AC04-0CA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-4AC04-0AA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-4AC04-0CA0	7100	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-4AC04-0AA0	7400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-4AC04-0CA0	7600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 564-4AC04-0AA0	8600	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 564-4AC04-0CA0	8900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-4AC04-0AA0	9100	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-4AC04-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

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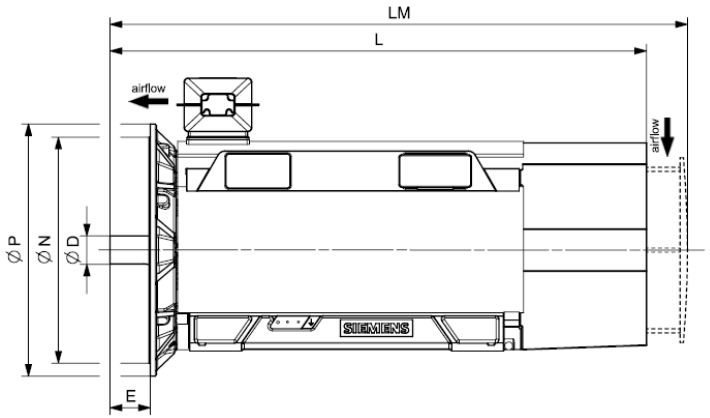

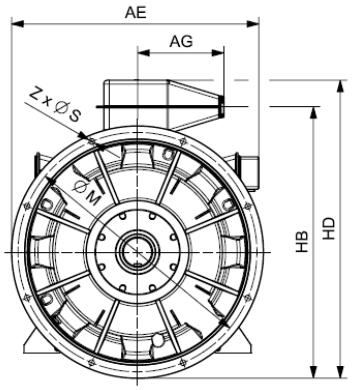

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 568-4AC04-0AA0	9500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-4AC04-0CA0	9900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 404-6AC04-0AA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-6AC04-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-6AC04-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-6AC04-0CA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-6AC04-0AA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-6AC04-0CA0	4400	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-6AC04-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-6AC04-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-6AC04-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-6AC04-0CA0	5400	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-6AC04-0AA0	5600	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-6AC04-0CA0	5900	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 502-6AC04-0AA0	6200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 502-6AC04-0CA0	6400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-6AC04-0CA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-6AC04-0AA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-6AC04-0CA0	7200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-6AC04-0AA0	7000	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-6AC04-0AA0	7400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-6AC04-0CA0	7700	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16

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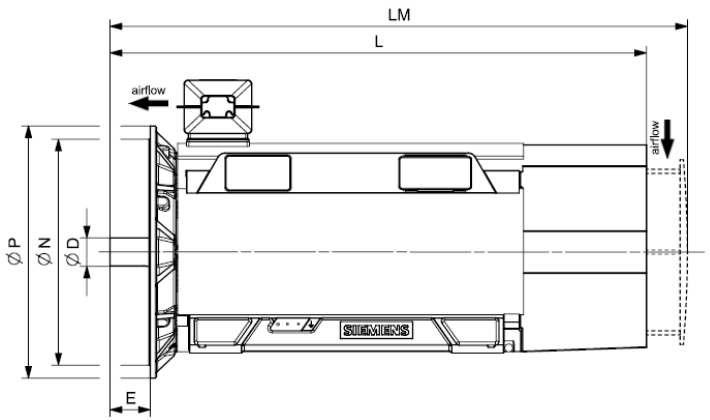

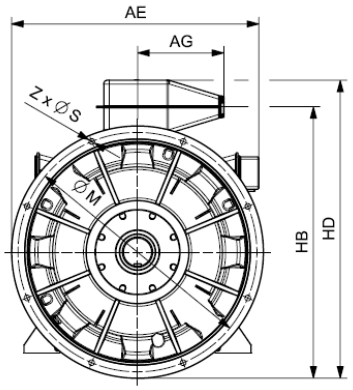

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 564-6AC04-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-6AC04-0CA0	10000	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-6AC04-0CA0	10500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 404-8AC04-0AA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-8AC04-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-8AC04-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-8AC04-0CA0	4100	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-8AC04-0AA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-8AC04-0CA0	4400	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-8AC04-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-8AC04-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-8AC04-0AA0	5100	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-8AC04-0CA0	5300	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-8AC04-0AA0	5600	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-8AC04-0CA0	5800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 504-8AC04-0AA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-8AC04-0CA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-8AC04-0AA0	6900	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-8AC04-0CA0	7200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-8AC04-0AA0	7500	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-8AC04-0CA0	7700	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 564-8AC04-0CA0	9300	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

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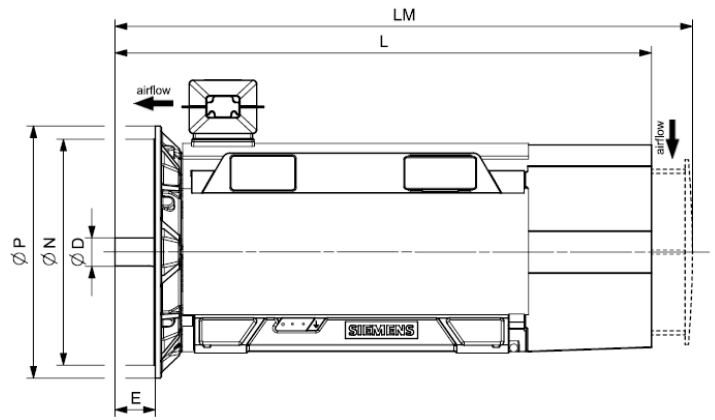

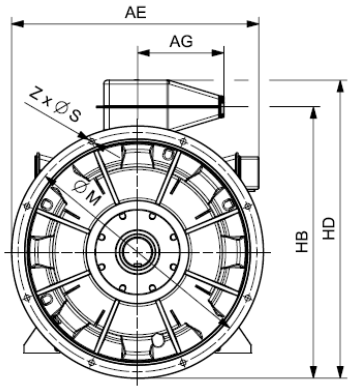

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 566-8AC04-0CA0	9900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-8AC04-0CA0	10500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - const torque drive																						
930	820	**1NA1 402-2AC10-0A.0**	3579	96.5	0,93	870	2481	3,20	10.0	3600	370	1991	96.2	0,91	115	1565	94.5	0,88	50	1401	91.6	0,87
930	820	**1NA1 402-2AC10-0C.0**	3579	96.4	0,93	870	2481	3,10	12.3	3600	370	1990	96.1	0,91	115	1564	94.3	0,88	50	1401	91.4	0,87
950	840	**1NA1 404-2AC10-0A.0**	3580	96.6	0,94	880	2534	3,70	11.0	3600	380	2033	96.2	0,92	120	1598	94.6	0,89	50	1431	91.8	0,89
950	840	**1NA1 404-2AC10-0C.0**	3581	96.5	0,94	880	2533	3,60	13.5	3600	380	2033	96.0	0,92	120	1598	94.4	0,89	50	1431	91.6	0,88
1010	890	**1NA1 406-2AC10-0A.0**	3580	96.6	0,95	920	2694	3,90	12.2	3600	405	2161	96.2	0,93	125	1699	94.5	0,90	55	1521	91.8	0,89
1000	880	**1NA1 406-2AC10-0C.0**	3582	96.5	0,94	920	2666	3,80	14.9	3600	400	2140	96.0	0,93	125	1682	94.3	0,90	55	1506	91.7	0,89
1150	1010	**1NA1 408-2AC10-0A.0**	3582	96.9	0,94	1060	3066	4,20	13.0	3600	460	2461	96.5	0,92	145	1934	95.1	0,89	65	1732	92.8	0,88
1150	1010	**1NA1 408-2AC10-0C.0**	3583	96.8	0,94	1060	3065	4,10	15.9	3600	460	2460	96.4	0,92	145	1934	94.9	0,88	65	1732	92.7	0,87
1200	1060	**1NA1 454-2AC10-0C.0**	3585	96.9	0,94	1100	3196	2,90	19.4	3600	480	2564	96.6	0,93	150	2016	95.3	0,90	65	1805	93.0	0,90
1250	1100	**1NA1 456-2AC10-0C.0**	3583	96.9	0,94	1140	3331	2,70	21.4	3600	500	2672	96.6	0,94	155	2101	95.1	0,92	70	1881	92.6	0,92
1520	1340	**1NA1 458-2AC10-0C.0**	3587	97.3	0,95	1380	4047	3,40	23.1	3600	610	3249	96.9	0,93	190	2554	95.7	0,91	85	2287	93.8	0,90
1610	1420	**1NA1 504-2AC10-0CC0**	3585	96.6	0,91	1540	4289	2,90	29.2	3600	645	3441	96.2	0,91	200	2704	94.8	0,89	90	2422	92.8	0,89
1900	1670	**1NA1 506-2AC10-0CC0**	3588	96.9	0,91	1800	5057	3,40	33.0	3600	760	4056	96.3	0,90	240	3189	95.1	0,88	105	2855	93.5	0,87
1950	1720	**1NA1 508-2AC10-0CC0**	3590	96.9	0,91	1860	5187	3,80	36.0	3600	780	4161	96.3	0,90	245	3270	95.2	0,87	110	2929	93.6	0,86
2170	1910	**1NA1 566-2AC10-0CC0**	3591	96.9	0,92	2050	5771	3,30	54.6	3600	870	4629	96.4	0,91	270	3639	95.4	0,89	120	3258	93.7	0,88
2355	2070	**1NA1 568-2AC10-0CC0**	3593	96.9	0,91	2250	6259	4,40	59.4	3600	940	5013	96.2	0,88	295	3940	95.1	0,85	130	3528	93.6	0,84
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - const torque drive																						
960	850	**1NA1 404-4AC10-0A.0**	1791	96.4	0,90	930	5119	3,10	15.6	2600	385	4108	95.1	0,88	120	3229	93.1	0,85	55	2891	90.2	0,84
950	840	**1NA1 404-4AC10-0C.0**	1789	96.5	0,89	930	5071	2,80	19.8	2600	380	4068	95.4	0,87	120	3198	93.4	0,85	50	2864	90.3	0,84
1020	900	**1NA1 406-4AC10-0A.0**	1792	96.5	0,90	980	5435	3,50	17.4	2600	410	4361	95.1	0,87	125	3428	93.2	0,83	55	3070	90.6	0,82
1020	900	**1NA1 406-4AC10-0C.0**	1790	96.6	0,89	990	5441	3,10	22.0	2600	410	4364	95.5	0,87	125	3431	93.6	0,84	55	3072	90.8	0,83
1120	990	**1NA1 408-4AC10-0A.0**	1792	96.6	0,90	1080	5968	3,80	19.7	2600	450	4787	95.1	0,87	140	3763	93.4	0,83	60	3369	91.1	0,82
1150	1010	**1NA1 408-4AC10-0C.0**	1791	96.7	0,90	1100	6132	3,30	24.9	2600	460	4919	95.6	0,87	145	3867	93.8	0,84	65	3462	91.3	0,83
1320	1160	**1NA1 454-4AC10-0A.0**	1791	96.9	0,90	1260	7038	3,20	26.4	2400	530	5645	95.8	0,88	165	4437	94.1	0,84	75	3973	91.6	0,83
1310	1150	**1NA1 454-4AC10-0C.0**	1792	96.8	0,89	1280	6981	2,90	33.9	2400	525	5601	95.9	0,87	165	4403	94.2	0,84	70	3943	91.6	0,82
1470	1300	**1NA1 456-4AC10-0A.0**	1791	97.0	0,91	1400	7838	3,20	30.5	2400	590	6285	96.0	0,88	185	4941	94.4	0,85	80	4424	92.1	0,84
1450	1280	**1NA1 456-4AC10-0C.0**	1792	97.0	0,90	1380	7727	2,90	39.0	2400	580	6199	96.1	0,88	180	4873	94.5	0,84	80	4363	92.2	0,83
1600	1410	**1NA1 458-4AC10-0C.0**	1792	97.1	0,89	1540	8526	3,00	42.8	2400	640	6838	96.3	0,87	200	5375	94.8	0,83	90	4813	92.7	0,82
1600	1410	**1NA1 458-4AC10-0A.0**	1792	97.1	0,90	1540	8526	3,30	33.6	2400	640	6839	96.2	0,88	200	5376	94.7	0,84	90	4814	92.6	0,83
1610	1420	**1NA1 504-4AC10-0A.0**	1790	96.2	0,89	1580	8589	2,60	32.6	2200	645	6894	95.5	0,88	200	5419	93.5	0,86	90	4853	90.6	0,85
1610	1420	**1NA1 504-4AC10-0C.0**	1790	96.3	0,87	1600	8589	2,10	42.5	2200	645	6890	95.7	0,87	200	5416	93.8	0,86	90	4850	90.9	0,85
1870	1650	**1NA1 506-4AC10-0A.0**	1791	96.6	0,89	1820	9971	3,00	37.1	2200	750	8000	95.6	0,87	235	6289	93.9	0,84	105	5631	91.4	0,83
1870	1650	**1NA1 506-4AC10-0C.0**	1792	96.7	0,87	1860	9965	2,30	48.0	2200	750	7998	95.9	0,87	235	6287	94.3	0,84	105	5630	91.8	0,83
1900	1670	**1NA1 508-4AC10-0A.0**	1792	96.6	0,90	1820	10125	3,20	42.5	2200	760	8124	95.5	0,88	240	6386	93.8	0,85	105	5718	91.5	0,84

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SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1900	1670	**1NA1 508-4AC10-0C.0**	1792	96.7	0,89	1840	10125	2,50	54.7	2200	760	8121	95.8	0,88	240	6384	94.2	0,85	105	5717	91.9	0,84
2210	1950	**1NA1 564-4AC10-0A.0**	1793	96.5	0,88	2200	11770	2,60	60.0	2000	885	9449	96.0	0,87	275	7428	94.6	0,85	125	6651	92.2	0,84
2210	1950	**1NA1 564-4AC10-0C.0**	1792	96.6	0,87	2200	11777	2,30	79.4	2000	885	9451	96.1	0,87	275	7429	94.6	0,85	125	6652	92.2	0,84
2270	2000	**1NA1 566-4AC10-0A.0**	1792	96.5	0,89	2200	12096	2,60	66.7	2000	910	9700	96.1	0,88	285	7625	94.6	0,86	125	6828	92.2	0,86
2270	2000	**1NA1 566-4AC10-0C.0**	1792	96.6	0,89	2200	12096	2,30	88.1	2000	910	9708	96.1	0,88	285	7631	94.6	0,86	125	6833	92.3	0,86
2550	2250	**1NA1 568-4AC10-0A.0**	1794	96.7	0,90	2450	13573	3,50	73.5	2000	1020	10887	95.9	0,87	320	8558	94.4	0,84	140	7663	92.2	0,83
2560	2260	**1NA1 568-4AC10-0C.0**	1794	96.8	0,90	2450	13627	3,00	96.7	2000	1025	10930	96.1	0,87	320	8592	94.6	0,84	145	7694	92.4	0,83
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - const torque drive																						
780	690	**1NA1 404-6AC10-0AA0**	1194	96.2	0,88	770	6238	2,90	25.8	2400	310	5005	94.4	0,86	95	3934	91.8	0,84	45	3523	88.3	0,83
770	680	**1NA1 404-6AC10-0CA0**	1193	96.3	0,87	770	6163	2,60	33.2	2400	310	4945	95.0	0,86	95	3887	92.4	0,84	40	3481	88.8	0,83
820	720	**1NA1 406-6AC10-0AA0**	1195	96.3	0,88	810	6553	3,40	29.6	2400	330	5257	94.4	0,85	105	4132	91.9	0,82	45	3700	88.8	0,80
820	720	**1NA1 406-6AC10-0CA0**	1194	96.5	0,88	810	6558	2,90	38.0	2400	330	5261	95.1	0,86	100	4136	92.8	0,83	45	3703	89.6	0,82
860	760	**1NA1 408-6AC10-0AA0**	1195	96.2	0,86	870	6872	4,40	33.5	2400	345	5515	93.8	0,81	110	4335	91.3	0,76	50	3882	88.5	0,74
910	800	**1NA1 408-6AC10-0CA0**	1195	96.6	0,87	910	7272	3,50	42.0	2400	365	5832	95.0	0,83	115	4585	92.8	0,78	50	4105	89.9	0,77
1100	970	**1NA1 454-6AC10-0A.0**	1194	96.5	0,86	1100	8798	3,00	39.5	2200	440	7061	94.8	0,83	135	5550	92.5	0,79	60	4970	89.1	0,78
1110	980	**1NA1 454-6AC10-0C.0**	1193	96.6	0,85	1140	8885	2,60	49.1	2200	445	7133	95.3	0,84	140	5607	93.0	0,81	60	5021	89.6	0,80
1150	1010	**1NA1 456-6AC10-0A.0**	1194	96.7	0,86	1160	9197	3,30	45.9	2200	460	7376	95.0	0,82	145	5798	92.9	0,79	65	5192	90.0	0,77
1170	1030	**1NA1 456-6AC10-0C.0**	1194	96.8	0,86	1180	9357	2,80	56.8	2200	470	7509	95.5	0,83	145	5902	93.5	0,81	65	5285	90.5	0,79
1200	1060	**1NA1 458-6AC10-0A.0**	1195	96.8	0,87	1200	9589	3,30	54.3	2200	480	7696	95.1	0,84	150	6049	93.1	0,80	65	5417	90.5	0,79
1200	1060	**1NA1 458-6AC10-0C.0**	1194	96.9	0,87	1200	9597	2,90	67.0	2200	480	7698	95.4	0,84	150	6051	93.5	0,81	65	5419	90.9	0,80
1400	1240	**1NA1 502-6AC10-0A.0**	1191	96.4	0,83	1460	11225	2,00	52.8	2100	560	9010	95.3	0,84	175	7082	93.0	0,83	75	6342	89.8	0,83
1500	1320	**1NA1 502-6AC10-0C.0**	1193	96.6	0,86	1520	12007	1,80	67.6	2100	600	9633	95.8	0,86	185	7572	93.8	0,86	85	6780	90.8	0,85
1550	1370	**1NA1 504-6AC10-0A.0**	1193	96.6	0,84	1600	12407	2,40	59.7	2100	620	9955	95.4	0,83	195	7825	93.3	0,81	85	7007	90.3	0,80
1650	1450	**1NA1 504-6AC10-0C.0**	1194	96.8	0,86	1660	13196	2,10	76.2	2100	660	10589	96.0	0,85	205	8324	94.1	0,84	90	7454	91.4	0,83
1600	1410	**1NA1 506-6AC10-0A.0**	1193	96.6	0,86	1620	12807	2,40	67.4	2100	640	10281	95.4	0,85	200	8082	93.2	0,83	90	7237	90.3	0,82
1700	1500	**1NA1 506-6AC10-0C.0**	1194	96.8	0,87	1680	13596	2,10	85.6	2100	680	10907	95.9	0,86	215	8574	94.0	0,85	95	7677	91.3	0,84
1850	1630	**1NA1 508-6AC10-0A.0**	1194	96.8	0,86	1860	14796	2,70	76.4	2100	740	11876	95.4	0,84	230	9336	93.4	0,81	100	8360	91.0	0,80
1960	1730	**1NA1 508-6AC10-0C.0**	1195	97.0	0,87	1940	15662	2,40	96.8	2100	785	12565	95.9	0,86	245	9877	94.3	0,83	110	8844	92.0	0,82
2300	2030	**1NA1 564-6AC10-0C.0**	1195	97.2	0,87	2300	18379	2,70	136.8	2000	920	14743	96.0	0,86	290	11589	94.3	0,84	130	10378	92.0	0,83
2420	2130	**1NA1 566-6AC10-0C.0**	1195	97.2	0,88	2350	19338	2,50	151.9	2000	970	15518	96.0	0,87	305	12198	94.2	0,86	135	10923	91.9	0,85
2510	2210	**1NA1 568-6AC10-0C.0**	1196	97.2	0,88	2450	20041	2,90	167.0	2000	1005	16082	95.9	0,86	315	12641	94.2	0,84	140	11320	91.8	0,83
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - const torque drive																						
600	530	**1NA1 404-8AC10-0AA0**	893	95.9	0,84	620	6416	2,70	26.7	2400	240	5150	93.4	0,82	75	4048	89.7	0,78	35	3625	84.8	0,77
580	510	**1NA1 404-8AC10-0CA0**	892	95.8	0,82	620	6209	2,30	32.8	2400	230	4986	93.6	0,80	70	3920	89.9	0,77	30	3510	84.7	0,77
630	560	**1NA1 406-8AC10-0AA0**	894	96.0	0,84	650	6729	3,10	30.6	2400	250	5398	93.2	0,80	80	4244	89.6	0,75	35	3800	85.0	0,74

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SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD const torque

Rated power IEC		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
620	550	**1NA1 406-8AC10-0CA0**	893	96.0	0,83	650	6630	2,70	37.6	2400	250	5320	93.6	0,80	75	4182	90.0	0,75	35	3745	85.3	0,74
660	580	**1NA1 408-8AC10-0AA0**	894	96.1	0,84	680	7050	3,20	33.8	2400	265	5653	93.4	0,80	80	4444	90.1	0,75	35	3979	85.9	0,73
650	570	**1NA1 408-8AC10-0CA0**	894	96.1	0,83	680	6943	2,80	41.5	2400	260	5575	93.8	0,79	80	4382	90.5	0,75	35	3924	86.1	0,74
860	760	**1NA1 454-8AC10-0A.0**	892	95.8	0,80	940	9207	2,00	40.0	2200	345	7388	93.9	0,80	105	5807	90.5	0,78	45	5200	85.6	0,78
850	750	**1NA1 454-8AC10-0C.0**	891	95.8	0,81	920	9110	2,10	48.8	2200	340	7315	93.9	0,79	105	5750	90.3	0,79	45	5149	85.0	0,78
1300	1150	**1NA1 456-8AC10-0A.0**	892	96.1	0,80	1420	13917	2,00	46.4	2200	555	12000	94.0	0,80	200	10853	89.8	0,80	90	10470	83.3	0,81
1000	880	**1NA1 456-8AC10-0C.0**	893	96.2	0,79	1100	10694	2,60	56.4	2200	400	8586	94.3	0,77	125	6750	91.2	0,74	55	6044	86.8	0,73
1020	900	**1NA1 458-8AC10-0A.0**	894	96.2	0,81	1100	10895	2,80	54.9	2200	410	8738	93.9	0,77	125	6869	90.9	0,74	55	6151	87.2	0,72
1020	900	**1NA1 458-8AC10-0C.0**	894	96.3	0,81	1100	10895	2,90	66.6	2200	410	8748	94.1	0,78	125	6877	91.2	0,74	55	6158	87.2	0,73
1100	970	**1NA1 504-8AC10-0A.0**	893	96.0	0,81	1180	11763	1,70	58.9	2100	440	9441	94.7	0,80	135	7421	92.1	0,79	60	6646	88.2	0,78
1150	1010	**1NA1 504-8AC10-0C.0**	893	95.9	0,85	1180	12298	2,00	75.7	2100	460	9867	94.7	0,84	145	7756	92.1	0,81	65	6945	88.4	0,81
1170	1030	**1NA1 506-8AC10-0A.0**	893	96.0	0,82	1240	12511	1,80	66.4	2100	470	10037	94.8	0,81	145	7890	92.2	0,79	65	7065	88.5	0,78
1200	1060	**1NA1 506-8AC10-0C.0**	894	96.0	0,85	1240	12818	2,10	85.2	2100	480	10289	94.7	0,84	150	8088	92.2	0,81	65	7242	88.7	0,80
1320	1160	**1NA1 508-8AC10-0C.0**	895	96.1	0,85	1360	14084	2,50	96.4	2100	530	11296	94.7	0,81	165	8880	92.5	0,77	75	7952	89.4	0,76
1320	1160	**1NA1 508-8AC10-0A.0**	894	96.3	0,81	1420	14100	2,20	75.3	2100	530	11307	94.9	0,79	165	8888	92.6	0,76	75	7959	89.2	0,74
1700	1500	**1NA1 564-8AC10-0C.0**	894	96.6	0,85	1740	18159	1,90	136.4	2000	680	14583	95.5	0,85	210	11463	93.0	0,84	95	10265	89.6	0,83
1820	1600	**1NA1 566-8AC10-0C.0**	894	96.8	0,85	1860	19440	2,10	151.8	2000	730	15594	95.4	0,85	225	12258	93.1	0,83	100	10977	90.1	0,82
1910	1680	**1NA1 568-8AC10-0C.0**	895	96.9	0,85	1940	20379	2,20	167.1	2000	765	16354	95.6	0,84	240	12856	93.4	0,82	105	11512	90.6	0,80

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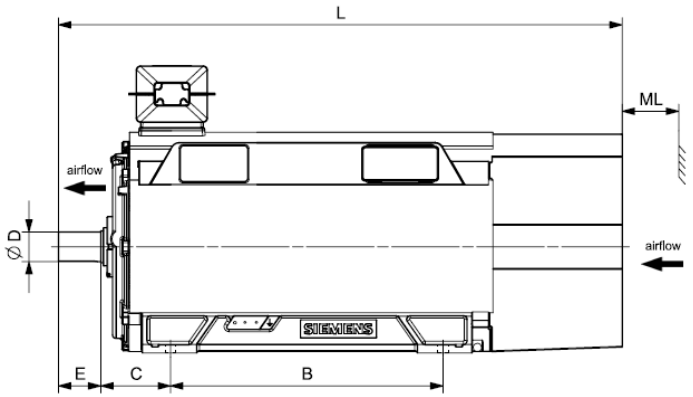

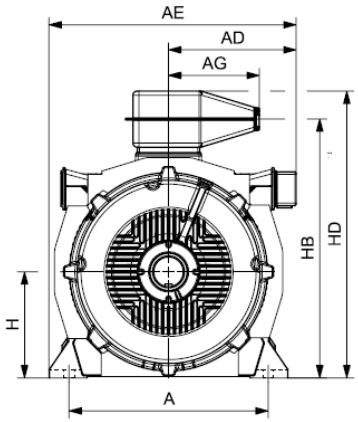

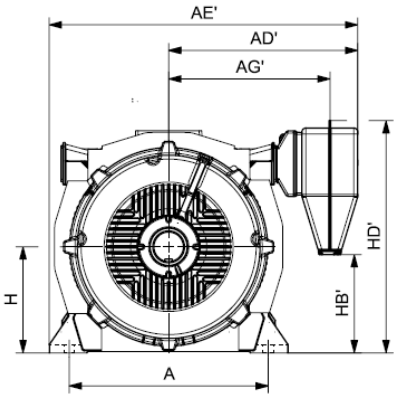

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2AC10-0A.0	3300	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 402-2AC10-0C.0	3400	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 404-2AC10-0A.0	3500	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 404-2AC10-0C.0	3600	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 406-2AC10-0A.0	3600	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 406-2AC10-0C.0	3700	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 408-2AC10-0A.0	3800	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 408-2AC10-0C.0	3900	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2162	160
1NA1 454-2AC10-0C.0	4700	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 456-2AC10-0C.0	4900	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 458-2AC10-0C.0	5100	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2286	180
1NA1 504-2AC10-0CC0	6100	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 506-2AC10-0CC0	6500	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 508-2AC10-0CC0	6900	950	610	1029	1175	1594	371	885	1320	475	110	165	500	1343	522	1508	1194	2662	200
1NA1 566-2AC10-0CC0	8400	1060	670	1089	1305	1724	371	945	1400	560	120	165	560	1470	627	1635	1300	2922	225
1NA1 568-2AC10-0CC0	8700	1060	670	1089	1305	1724	371	945	1400	560	120	165	560	1470	627	1635	1300	2922	225
4-pole																			
1NA1 404-4AC10-0A.0	3500	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-4AC10-0C.0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-4AC10-0A.0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-4AC10-0C.0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-4AC10-0A.0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160

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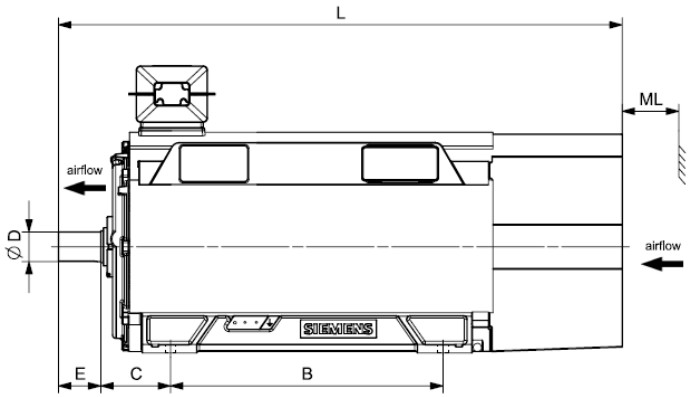

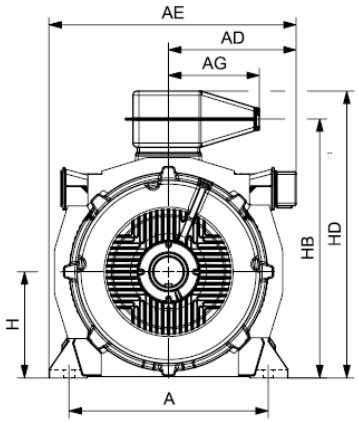

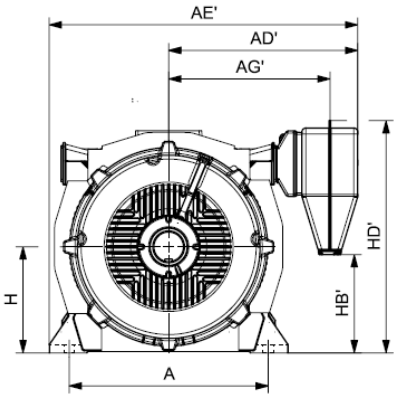

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 408-4AC10-0C.0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-4AC10-0A.0	4700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-4AC10-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-4AC10-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-4AC10-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-4AC10-0C.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-4AC10-0A.0	5300	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 504-4AC10-0A.0	6200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-4AC10-0C.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-4AC10-0A.0	6700	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-4AC10-0C.0	6900	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-4AC10-0A.0	7100	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-4AC10-0C.0	7400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-4AC10-0A.0	8300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 564-4AC10-0C.0	8600	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-4AC10-0A.0	8800	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-4AC10-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-4AC10-0A.0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-4AC10-0C.0	9600	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
6-pole																			
1NA1 404-6AC10-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-6AC10-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-6AC10-0AA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160

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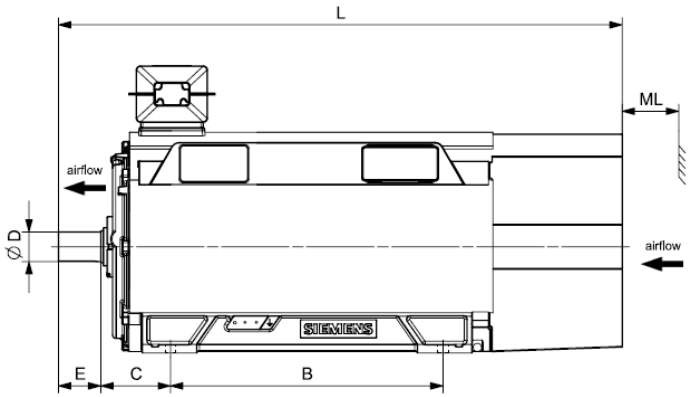

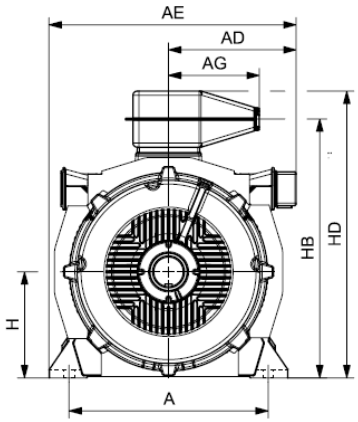

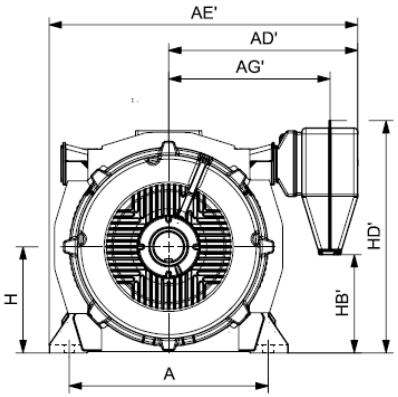

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 406-6AC10-0CA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-6AC10-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-6AC10-0CA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-6AC10-0A.0	4600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-6AC10-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-6AC10-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-6AC10-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-6AC10-0A.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-6AC10-0C.0	5700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 502-6AC10-0A.0	6100	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 502-6AC10-0C.0	6300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-6AC10-0A.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-6AC10-0C.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-6AC10-0A.0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-6AC10-0C.0	7000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-6AC10-0A.0	7300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-6AC10-0C.0	7600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-6AC10-0C.0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-6AC10-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-6AC10-0C.0	10200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
8-pole																			
1NA1 404-8AC10-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 404-8AC10-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160

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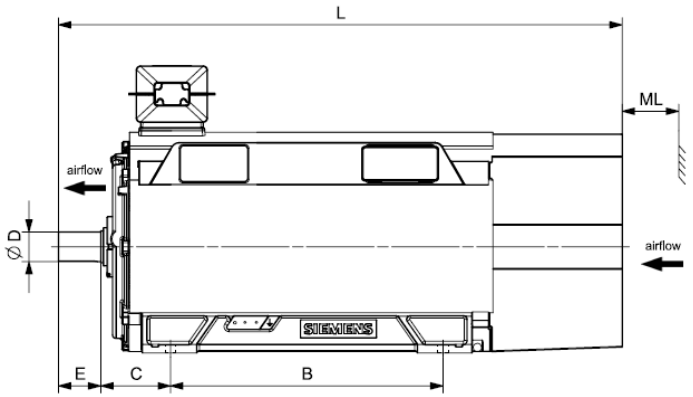

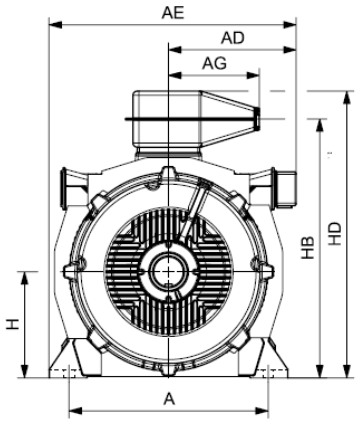

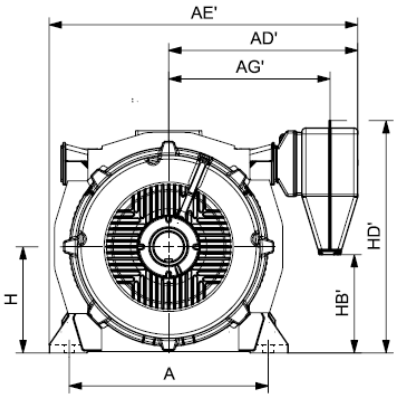

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 406-8AC10-0AA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 406-8AC10-0CA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-8AC10-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 408-8AC10-0CA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2197	160
1NA1 454-8AC10-0A.0	4600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 454-8AC10-0C.0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-8AC10-0A.0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 456-8AC10-0C.0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-8AC10-0A.0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 458-8AC10-0C.0	5600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2457	180
1NA1 504-8AC10-0A.0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 504-8AC10-0C.0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-8AC10-0A.0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 506-8AC10-0C.0	7000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-8AC10-0C.0	7500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 508-8AC10-0A.0	7300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	2672	200
1NA1 564-8AC10-0C.0	9100	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 566-8AC10-0C.0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225
1NA1 568-8AC10-0C.0	10200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	2847	225

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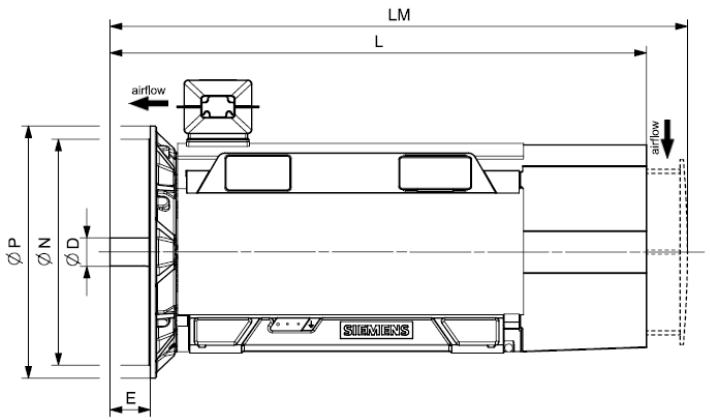

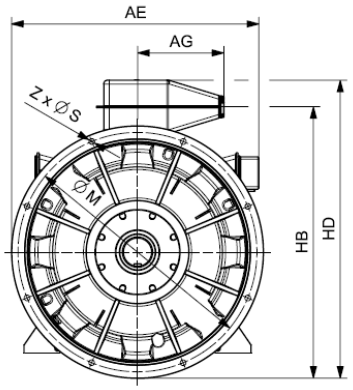

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 404-4AC14-0AA0	3600	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-4AC14-0CA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-4AC14-0AA0	3800	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-4AC14-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-4AC14-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-4AC14-0CA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-4AC14-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-4AC14-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-4AC14-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-4AC14-0CA0	5400	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-4AC14-0CA0	5700	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-4AC14-0AA0	5500	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 504-4AC14-0AA0	6400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-4AC14-0CA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-4AC14-0AA0	6900	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-4AC14-0CA0	7100	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-4AC14-0AA0	7300	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-4AC14-0CA0	7600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 564-4AC14-0AA0	8500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 564-4AC14-0CA0	8900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-4AC14-0AA0	9000	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-4AC14-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

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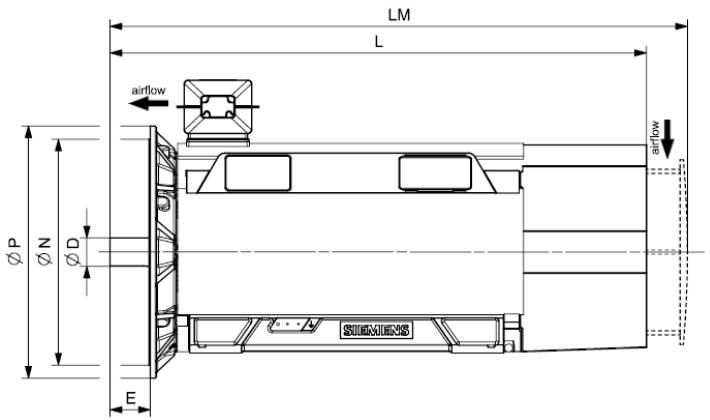

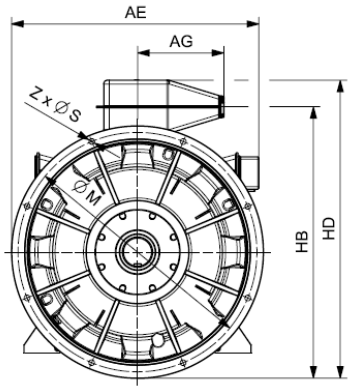

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 568-4AC14-0AA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-4AC14-0CA0	9800	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 404-6AC14-0AA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-6AC14-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-6AC14-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-6AC14-0CA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-6AC14-0AA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-6AC14-0CA0	4400	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-6AC14-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-6AC14-0CA0	5000	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-6AC14-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-6AC14-0CA0	5400	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-6AC14-0AA0	5600	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-6AC14-0CA0	5900	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 502-6AC14-0AA0	6200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 502-6AC14-0CA0	6500	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-6AC14-0AA0	6600	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-6AC14-0CA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-6AC14-0AA0	6900	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-6AC14-0CA0	7200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-6AC14-0AA0	7500	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-6AC14-0CA0	7800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16

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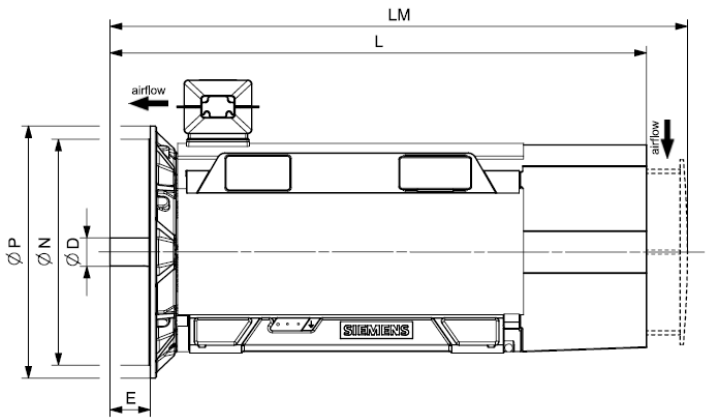

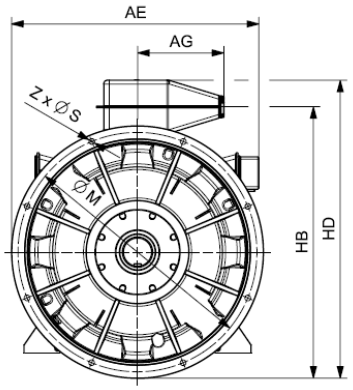

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 564-6AC14-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 566-6AC14-0CA0	9900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-6AC14-0CA0	10400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 404-8AC14-0AA0	3700	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 404-8AC14-0CA0	3900	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-8AC14-0AA0	4000	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 406-8AC14-0CA0	4100	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-8AC14-0AA0	4200	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 408-8AC14-0CA0	4400	1020	356	110	1044	1258	2197	2347	940	880	1000	22	8
1NA1 454-8AC14-0AA0	4800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 454-8AC14-0CA0	4900	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-8AC14-0AA0	5200	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 456-8AC14-0CA0	5300	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-8AC14-0AA0	5600	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 458-8AC14-0CA0	5800	1139	356	120	1193	1407	2457	2657	1080	1000	1150	26	8
1NA1 504-8AC14-0AA0	6500	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 504-8AC14-0CA0	6800	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-8AC14-0AA0	7000	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 506-8AC14-0CA0	7200	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-8AC14-0CA0	7700	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 508-8AC14-0AA0	7400	1235	371	140	1468	1633	2672	2872	1180	1120	1250	26	16
1NA1 564-8AC14-0CA0	9400	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

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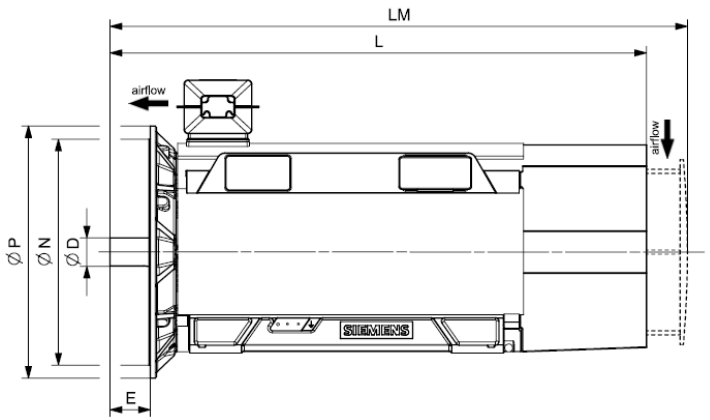

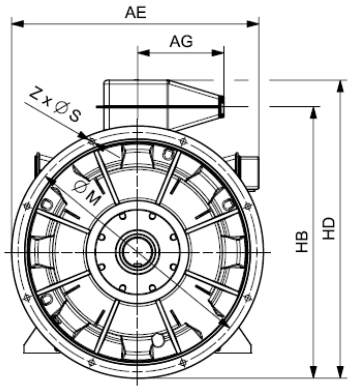

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 566-8AC14-0CA0	9900	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16
1NA1 568-8AC14-0CA0	10500	1370	371	160	1610	1775	2847	3087	1320	1250	1400	26	16

SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - const torque drive																						
	960	**1NA1 454-2AR40-0A.0**	2986	96.9	0,90	152	3070	2,90	14.3	3600	385	2463	96.8	0,90	120	1936	94.9	0,87	55	1734	92.6	0,83
	950	**1NA1 454-2AR40-0C.0**	2983	96.7	0,90	152	3041	2,50	18.4	3600	380	2441	96.6	0,90	120	1919	94.5	0,87	55	1719	92.0	0,83
	1050	**1NA1 456-2AR40-0A.0**	2986	97.0	0,91	166	3358	3,10	15.8	3600	420	2693	96.9	0,90	130	2117	95.0	0,88	60	1896	92.7	0,83
	1020	**1NA1 456-2AR40-0C.0**	2984	96.9	0,91	160	3264	2,70	20.3	3600	410	2619	96.8	0,90	125	2059	94.6	0,87	55	1844	92.2	0,83
	1170	**1NA1 458-2AR40-0A.0**	2987	97.1	0,92	182	3740	3,40	17.0	3600	470	3000	97.0	0,91	145	2358	95.0	0,88	65	2111	92.5	0,83
	1150	**1NA1 458-2AR40-0C.0**	2985	97.0	0,91	180	3679	2,80	21.9	3600	460	2952	96.9	0,90	145	2321	94.6	0,87	65	2078	92.1	0,83
	1310	**1NA1 504-2AR40-0AC0**	2987	96.9	0,90	210	4188	3,20	22.6	3600	525	3360	97.1	0,90	165	2641	95.6	0,87	75	2365	93.6	0,83
	1310	**1NA1 504-2AR40-0C.0**	2987	96.8	0,90	210	4188	2,80	27.0	3000	525	3360	97.0	0,90	165	2641	95.5	0,87	75	2365	93.3	0,82
	1450	**1NA1 506-2AR40-0AC0**	2987	97.1	0,91	230	4636	3,20	25.7	3600	580	3719	97.2	0,90	180	2923	95.7	0,88	80	2618	93.8	0,84
	1450	**1NA1 506-2AR40-0C.0**	2988	97.0	0,90	230	4634	2,80	31.0	3000	580	3719	97.2	0,90	180	2923	95.6	0,88	80	2618	93.6	0,83
	1600	**1NA1 508-2AR40-0AC0**	2989	97.2	0,91	250	5112	3,90	28.1	3600	640	4100	97.3	0,90	200	3223	95.8	0,87	90	2886	93.8	0,82
	1600	**1NA1 508-2AR40-0C.0**	2990	97.1	0,91	250	5110	3,30	34.0	3000	640	4100	97.3	0,90	200	3223	95.7	0,87	90	2886	93.6	0,80
	1900	**1NA1 566-2AR40-0C.0**	2990	97.3	0,91	300	6068	2,70	55.4	3000	760	4868	97.5	0,91	240	3827	96.3	0,89	105	3427	94.7	0,85
	2100	**1NA1 568-2AR40-0C.0**	2991	97.4	0,92	325	6705	2,90	60.1	3000	840	5378	97.6	0,91	265	4228	96.3	0,89	115	3786	94.7	0,84
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - const torque drive																						
	960	**1NA1 454-4AR40-0A.0**	1493	96.6	0,85	162	6140	3,30	21.6	2400	385	4928	96.4	0,82	120	3874	93.7	0,76	55	3469	89.6	0,63
	960	**1NA1 454-4AR40-0C.0**	1493	96.6	0,84	164	6140	2,70	27.6	2400	385	4929	96.5	0,82	120	3875	94.0	0,77	55	3470	90.7	0,67
	1050	**1NA1 456-4AR40-0A.0**	1493	96.7	0,86	176	6716	3,30	24.8	2400	420	5390	96.6	0,84	130	4237	93.9	0,78	60	3794	90.2	0,67
	1050	**1NA1 456-4AR40-0C.0**	1493	96.7	0,85	178	6716	2,70	31.8	2400	420	5391	96.6	0,83	130	4238	94.2	0,78	60	3795	91.1	0,70
	1160	**1NA1 458-4AR40-0A.0**	1494	96.8	0,85	196	7414	3,70	27.3	2400	465	5950	96.7	0,82	145	4677	94.2	0,74	65	4188	90.3	0,61
	1170	**1NA1 458-4AR40-0C.0**	1494	96.8	0,84	200	7478	3,00	34.8	2400	470	6002	96.8	0,82	145	4718	94.6	0,76	65	4225	91.4	0,65
	1300	**1NA1 504-4AR40-0A.0**	1492	96.6	0,87	215	8320	2,70	32.6	2200	520	6679	96.6	0,87	160	5250	94.7	0,83	70	4701	91.9	0,75
	1300	**1NA1 504-4AR40-0C.0**	1492	96.6	0,86	215	8320	2,10	42.5	2200	520	6677	96.7	0,86	160	5249	94.9	0,83	70	4700	92.5	0,77
	1460	**1NA1 506-4AR40-0A.0**	1492	96.7	0,88	240	9344	2,90	37.1	2200	585	7498	96.8	0,87	180	5894	94.7	0,83	80	5278	91.9	0,74
	1460	**1NA1 506-4AR40-0C.0**	1493	96.8	0,87	240	9338	2,30	48.0	2200	585	7494	96.8	0,86	185	5891	95.0	0,83	80	5275	92.6	0,76
	1520	**1NA1 508-4AR40-0A.0**	1494	96.8	0,88	250	9715	3,50	42.5	2200	610	7797	96.9	0,86	190	6129	95.0	0,80	85	5488	92.0	0,70
	1550	**1NA1 508-4AR40-0C.0**	1494	96.9	0,87	255	9907	2,70	54.7	2200	620	7951	97.0	0,86	195	6250	95.3	0,81	85	5597	92.8	0,73
	1810	**1NA1 562-4AR40-0C.0**	1493	96.9	0,86	300	11577	2,10	72.5	2000	725	9288	97.1	0,85	225	7301	95.5	0,82	100	6538	93.3	0,75
	1820	**1NA1 562-4AR40-0A.0**	1493	96.9	0,87	300	11641	2,50	54.5	2000	730	9343	97.1	0,86	230	7344	95.4	0,82	100	6576	92.9	0,73
	2020	**1NA1 564-4AR40-0A.0**	1494	97.0	0,88	330	12911	2,70	60.0	2000	810	10362	97.2	0,86	255	8146	95.4	0,82	115	7294	92.8	0,72
	2010	**1NA1 564-4AR40-0C.0**	1494	97.1	0,87	330	12847	2,30	79.4	2000	805	10315	97.2	0,86	250	8108	95.5	0,82	110	7261	93.3	0,75
	2200	**1NA1 566-4AR40-0A.0**	1494	97.2	0,88	355	14062	2,80	66.7	2000	880	11283	97.3	0,87	275	8869	95.4	0,82	125	7942	92.8	0,73
	2200	**1NA1 566-4AR40-0C.0**	1494	97.2	0,87	360	14062	2,40	88.1	2000	880	11286	97.3	0,86	275	8872	95.5	0,82	125	7944	93.4	0,75
	2360	**1NA1 568-4AR40-0A.0**	1495	97.2	0,88	385	15074	3,10	73.5	2000	945	12098	97.4	0,87	295	9510	95.5	0,81	130	8516	92.8	0,71

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SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	2370	**1NA1 568-4AR40-0C.0**	1495	97.3	0,88	385	15138	2,60	96.7	2000	950	12150	97.4	0,86	295	9551	95.7	0,82	130	8553	93.4	0,73
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - const torque drive																						
	710	**1NA1 454-6AR40-0A.0**	994	96.3	0,80	128	6821	2,40	31.8	2200	285	5475	95.8	0,79	90	4303	92.7	0,74	40	3854	88.1	0,63
	720	**1NA1 454-6AR40-0C.0**	994	96.4	0,83	124	6917	2,50	41.0	2200	290	5552	95.9	0,81	90	4365	92.8	0,76	40	3908	88.5	0,66
	800	**1NA1 456-6AR40-0A.0**	994	96.4	0,81	142	7686	2,40	36.9	2200	320	6166	95.9	0,80	100	4847	93.2	0,75	45	4340	88.9	0,64
	800	**1NA1 456-6AR40-0C.0**	994	96.4	0,84	138	7686	2,60	47.3	2200	320	6166	96.0	0,82	100	4847	93.2	0,77	45	4340	89.2	0,67
	860	**1NA1 458-6AR40-0A.0**	995	96.5	0,82	150	8254	2,60	43.6	2200	345	6624	96.1	0,80	105	5207	93.5	0,74	50	4663	89.5	0,64
	870	**1NA1 458-6AR40-0C.0**	995	96.5	0,84	148	8350	2,80	55.8	2200	350	6701	96.2	0,81	110	5268	93.5	0,76	50	4717	89.8	0,66
	950	**1NA1 502-6AR40-0A.0**	994	96.3	0,84	162	9127	2,60	52.8	2100	380	7330	95.9	0,83	120	5762	93.1	0,80	55	5160	89.0	0,72
	1000	**1NA1 502-6AR40-0C.0**	995	96.4	0,86	168	9597	2,30	67.6	2100	400	7703	96.2	0,86	125	6055	93.7	0,83	55	5422	90.1	0,75
	1050	**1NA1 504-6AR40-0A.0**	994	96.4	0,85	178	10087	2,40	59.7	2100	420	8100	96.1	0,85	130	6367	93.5	0,82	60	5701	90.0	0,75
	1120	**1NA1 504-6AR40-0C.0**	995	96.6	0,87	184	10749	2,10	76.2	2100	450	8632	96.3	0,87	140	6785	94.1	0,85	60	6076	91.0	0,79
	1180	**1NA1 506-6AR40-0A.0**	994	96.6	0,85	200	11336	2,60	67.4	2100	470	9104	96.3	0,84	145	7156	93.7	0,81	65	6408	90.2	0,73
	1250	**1NA1 506-6AR40-0C.0**	995	96.8	0,87	205	11997	2,30	85.6	2100	500	9626	96.6	0,86	155	7566	94.4	0,83	70	6775	91.4	0,76
	1310	**1NA1 508-6AR40-0A.0**	994	96.7	0,86	220	12585	2,80	76.4	2100	525	10099	96.4	0,85	165	7938	93.7	0,81	75	7108	90.2	0,72
	1400	**1NA1 508-6AR40-0C.0**	996	96.9	0,87	230	13423	2,40	96.8	2100	560	10776	96.7	0,86	175	8471	94.4	0,83	80	7585	91.5	0,75
	1770	**1NA1 564-6AR40-0C.0**	995	97.2	0,87	290	16987	2,40	136.8	2000	710	13635	97.1	0,87	220	10718	94.9	0,86	100	9598	92.3	0,79
	1890	**1NA1 566-6AR40-0C.0**	995	97.2	0,87	310	18139	2,60	151.9	2000	755	14551	97.2	0,87	235	11438	95.2	0,85	105	10242	92.7	0,78
	2000	**1NA1 568-6AR40-0C.0**	996	97.3	0,87	330	19175	2,90	167.0	2000	800	15386	97.3	0,86	250	12094	95.1	0,83	110	10830	92.5	0,74
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - const torque drive																						
	600	**1NA1 454-8AR40-0A.0**	744	95.8	0,78	112	7701	2,20	32.0	2200	240	6183	95.0	0,77	75	4860	91.0	0,72	35	4352	85.1	0,62
	610	**1NA1 454-8AR40-0C.0**	744	95.9	0,80	110	7829	2,20	41.1	2200	245	6284	95.1	0,78	75	4939	91.0	0,73	35	4423	85.4	0,64
	650	**1NA1 456-8AR40-0A.0**	744	95.9	0,78	120	8343	2,40	37.1	2200	260	6693	95.2	0,77	80	5261	91.2	0,72	35	4711	85.6	0,62
	650	**1NA1 456-8AR40-0C.0**	745	96.0	0,80	118	8332	2,40	47.5	2200	260	6689	95.3	0,78	80	5258	91.3	0,73	35	4709	85.8	0,63
	710	**1NA1 458-8AR40-0A.0**	745	96.1	0,79	130	9101	2,40	43.9	2200	285	7312	95.5	0,77	90	5747	92.0	0,72	40	5147	86.9	0,62
	710	**1NA1 458-8AR40-0C.0**	745	96.1	0,80	128	9101	2,50	55.9	2200	285	7302	95.5	0,78	90	5740	92.0	0,72	40	5140	87.0	0,62
	760	**1NA1 504-8AR40-0A.0**	745	95.9	0,80	138	9742	2,20	58.9	2100	305	7821	95.3	0,79	95	6148	92.4	0,75	40	5505	88.1	0,67
	780	**1NA1 504-8AR40-0C.0**	745	95.9	0,84	134	9998	2,50	75.7	2100	310	8021	95.3	0,82	95	6305	92.5	0,77	45	5646	88.4	0,69
	800	**1NA1 506-8AR40-0A.0**	746	96.0	0,80	144	10241	2,60	66.4	2100	320	8226	95.4	0,78	100	6467	92.6	0,72	45	5791	87.9	0,61
	800	**1NA1 506-8AR40-0C.0**	746	95.8	0,83	140	10241	3,00	85.2	2100	320	8214	95.4	0,80	100	6456	92.7	0,73	45	5781	88.1	0,63
	850	**1NA1 508-8AR40-0A.0**	746	96.0	0,80	154	10881	2,80	75.3	2100	340	8733	95.5	0,77	105	6865	92.8	0,71	45	6147	88.2	0,60
	840	**1NA1 508-8AR40-0C.0**	747	95.9	0,82	148	10738	3,20	96.4	2100	335	8620	95.5	0,79	105	6776	92.8	0,72	45	6068	88.3	0,61
	1120	**1NA1 564-8AR40-0C.0**	746	96.7	0,84	192	14337	2,70	136.4	2000	450	11503	96.5	0,82	140	9042	93.9	0,77	60	8097	90.4	0,67
	1310	**1NA1 566-8AR40-0C.0**	746	96.8	0,84	225	16769	2,70	151.8	2000	525	13453	96.6	0,82	165	10575	93.8	0,77	75	9469	90.3	0,67
	1350	**1NA1 568-8AR40-0C.0**	746	96.9	0,84	230	17281	2,80	167.1	2000	540	13860	96.7	0,82	170	10895	94.3	0,77	75	9756	91.0	0,67

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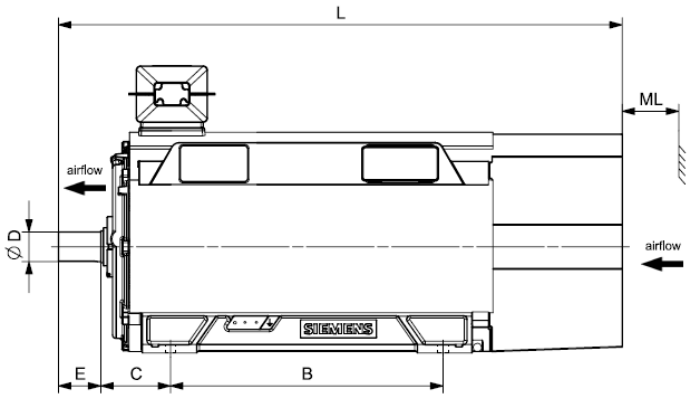

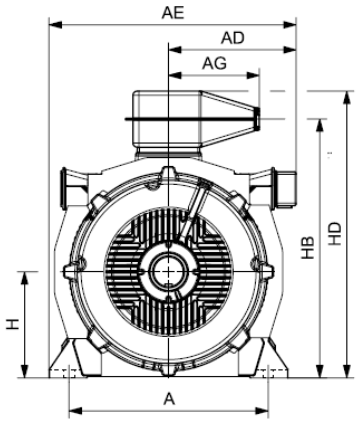

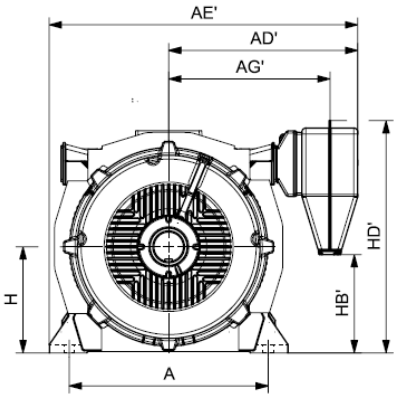

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2AR40-0A.0	4600	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 454-2AR40-0C.0	4800	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 456-2AR40-0A.0	4900	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 456-2AR40-0C.0	5000	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 458-2AR40-0A.0	5100	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 458-2AR40-0C.0	5200	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 504-2AR40-0AC0	6100	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 504-2AR40-0C.0	6200	950	610	894	1175	1459	489	763	1320	280	110	165	500	1221	403	1352	1095	2472	200
1NA1 506-2AR40-0AC0	6500	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 506-2AR40-0C.0	6700	950	610	894	1175	1459	489	763	1320	280	110	165	500	1221	403	1352	1095	2472	200
1NA1 508-2AR40-0AC0	6800	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 508-2AR40-0C.0	7000	950	610	894	1175	1459	489	763	1320	280	110	165	500	1221	403	1352	1095	2472	200
1NA1 566-2AR40-0C.0	9000	1060	670	954	1305	1589	489	823	1400	290	120	165	560	1348	509	1479	1201	2642	225
1NA1 568-2AR40-0C.0	9400	1060	670	954	1305	1589	489	823	1400	290	120	165	560	1348	509	1479	1201	2642	225
4-pole																			
1NA1 454-4AR40-0A.0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-4AR40-0C.0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-4AR40-0A.0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-4AR40-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-4AR40-0A.0	5300	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-4AR40-0C.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 504-4AR40-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200

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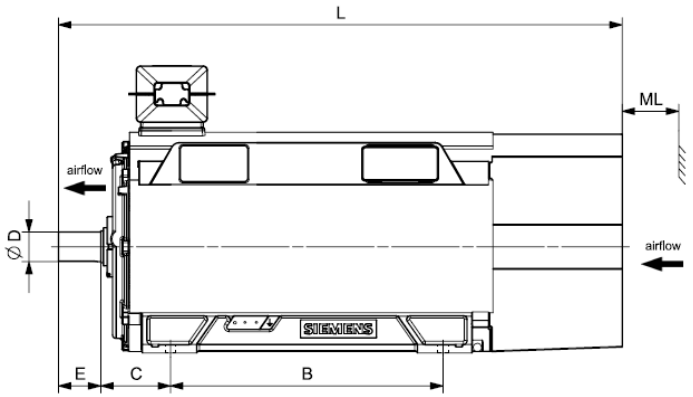

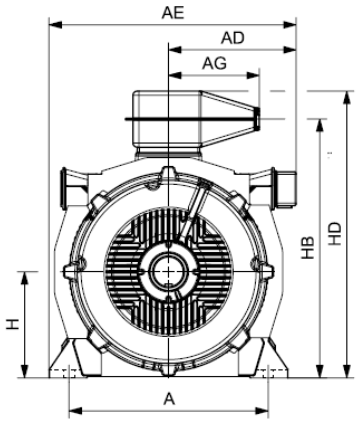

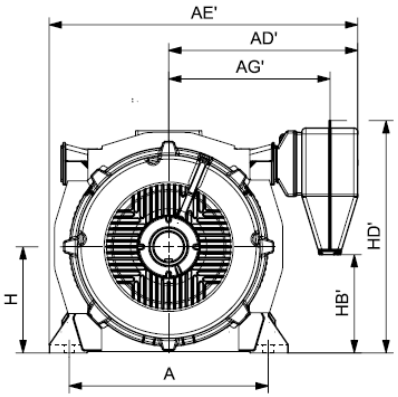

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 504-4AR40-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-4AR40-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-4AR40-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-4AR40-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-4AR40-0C.0	7400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 562-4AR40-0C.0	8300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 562-4AR40-0A.0	8000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 564-4AR40-0A.0	8400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 564-4AR40-0C.0	8700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-4AR40-0A.0	8900	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-4AR40-0C.0	9300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-4AR40-0A.0	9300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-4AR40-0C.0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
6-pole																			
1NA1 454-6AR40-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-6AR40-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-6AR40-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-6AR40-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-6AR40-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-6AR40-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 502-6AR40-0A.0	5900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 502-6AR40-0C.0	6100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-6AR40-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200

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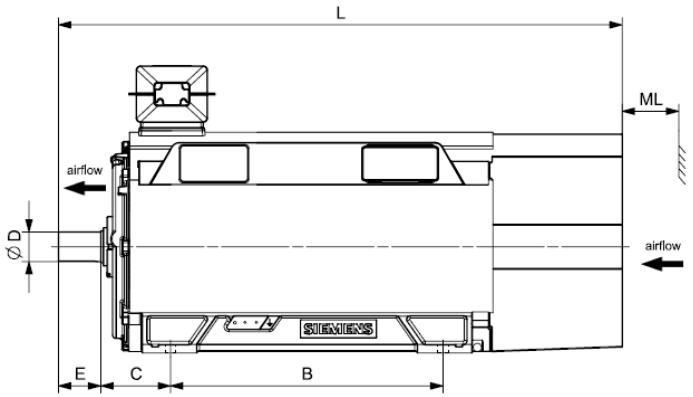

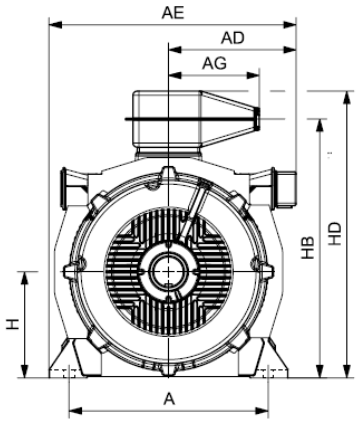

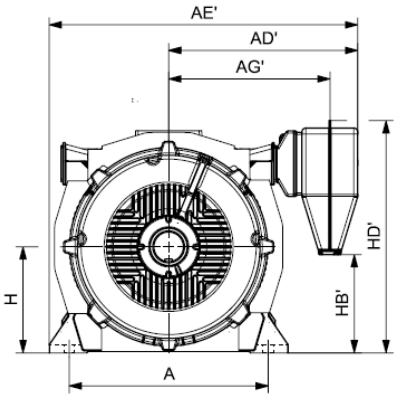

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 504-6AR40-0C.0	6600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-6AR40-0A.0	6800	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-6AR40-0C.0	7000	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-6AR40-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-6AR40-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 564-6AR40-0C.0	9200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-6AR40-0C.0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-6AR40-0C.0	10300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
8-pole																			
1NA1 454-8AR40-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-8AR40-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-8AR40-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-8AR40-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-8AR40-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-8AR40-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 504-8AR40-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-8AR40-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-8AR40-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-8AR40-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-8AR40-0A.0	7100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-8AR40-0C.0	7400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 564-8AR40-0C.0	9100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-8AR40-0C.0	9600	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225

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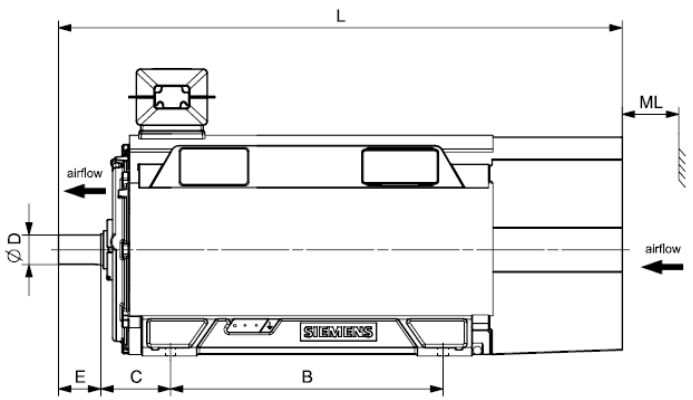
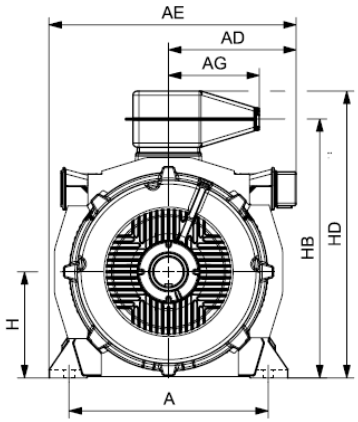
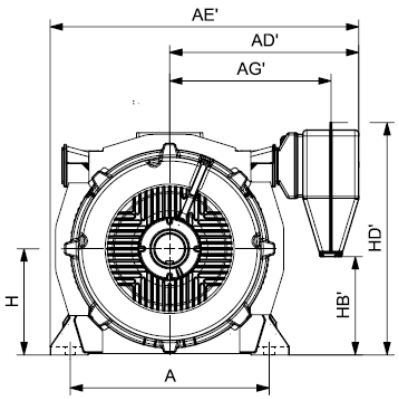
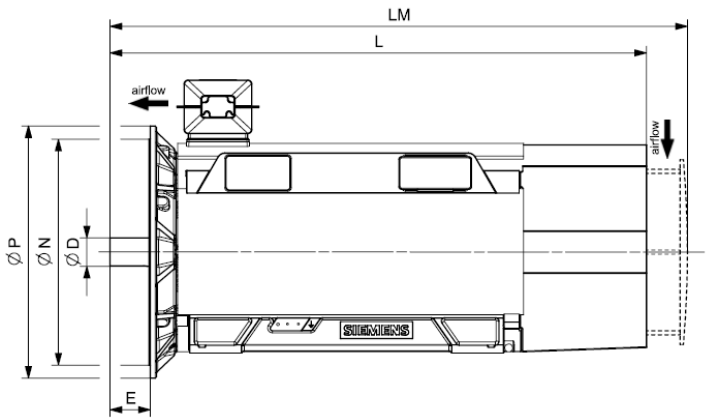
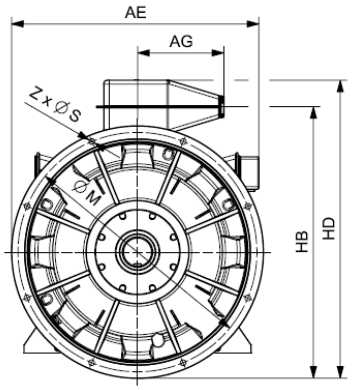






Motor type	Weight	Dimensions																		
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																				
1NA1 568-8AR40-0C.0	10200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225





Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 454-4AR44-0AA0	4900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-4AR44-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AR44-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AR44-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AR44-0AA0	5500	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AR44-0CA0	5700	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 504-4AR44-0AA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-4AR44-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AR44-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AR44-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AR44-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AR44-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 562-4AR44-0CA0	8600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 562-4AR44-0AA0	8200	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AR44-0AA0	8600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AR44-0CA0	9000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AR44-0AA0	9100	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AR44-0CA0	9500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AR44-0AA0	9600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AR44-0CA0	10000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 454-6AR44-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8

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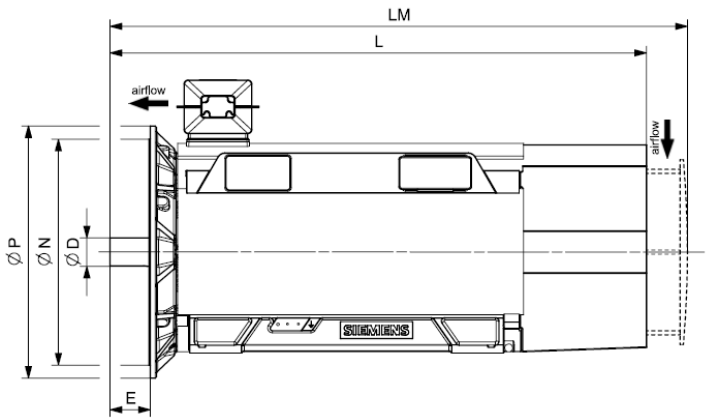

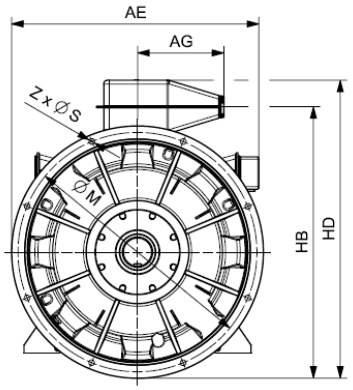

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 454-6AR44-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AR44-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AR44-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AR44-0AA0	5700	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AR44-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 502-6AR44-0AA0	6100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 502-6AR44-0CA0	6300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AR44-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AR44-0CA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AR44-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AR44-0CA0	7200	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AR44-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AR44-0CA0	7700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-6AR44-0CA0	9400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-6AR44-0CA0	9900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-6AR44-0CA0	10500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 454-8AR44-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-8AR44-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AR44-0AA0	5100	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AR44-0CA0	5300	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AR44-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AR44-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8

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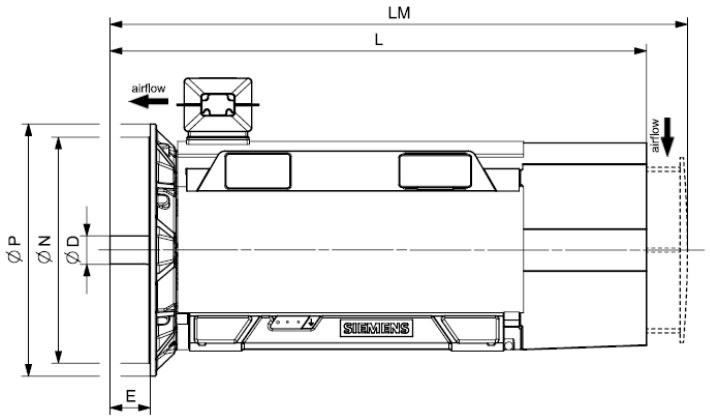

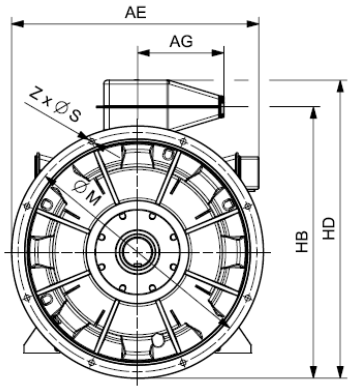

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-8AR44-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-8AR44-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AR44-0AA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AR44-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AR44-0AA0	7300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AR44-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-8AR44-0CA0	9300	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-8AR44-0CA0	9900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-8AR44-0CA0	10400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - const torque drive																						
	1100	**1NA1 454-2AR30-0C.0**	3584	96.7	0,90	176	2931	2,50	18.7	3600	440	2352	96.8	0,89	140	1849	95.1	0,86	60	1656	92.9	0,81
	1250	**1NA1 456-2AR30-0C.0**	3585	96.9	0,90	198	3330	2,70	20.6	3600	500	2672	97.0	0,90	155	2100	95.2	0,86	70	1881	93.0	0,79
	1400	**1NA1 458-2AR30-0C.0**	3586	97.0	0,91	220	3728	2,90	22.3	3600	560	2991	97.1	0,89	175	2351	95.2	0,86	80	2105	92.9	0,76
	1500	**1NA1 504-2AR30-0CC0**	3588	96.7	0,90	240	3992	2,90	28.9	3600	600	3204	97.0	0,90	190	2519	95.5	0,87	85	2255	93.6	0,81
	1670	**1NA1 506-2AR30-0CC0**	3588	96.9	0,91	265	4445	3,00	32.6	3600	670	3566	97.2	0,90	210	2803	95.5	0,87	95	2510	93.7	0,82
	1750	**1NA1 508-2AR30-0CC0**	3590	96.9	0,91	275	4655	3,60	35.6	3600	700	3733	97.2	0,90	220	2935	95.6	0,86	100	2628	93.7	0,78
	2160	**1NA1 566-2AR30-0CC0**	3590	97.1	0,91	340	5746	2,70	54.6	3600	865	4610	97.5	0,91	270	3623	96.4	0,90	120	3245	95.0	0,86
	2400	**1NA1 568-2AR30-0CC0**	3591	97.2	0,92	370	6382	2,80	59.4	3600	960	5120	97.6	0,91	300	4025	96.4	0,90	135	3604	95.0	0,86
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - const torque drive																						
	1150	**1NA1 454-4AR30-0A.0**	1793	96.7	0,84	196	6125	3,20	21.6	2400	460	4914	96.6	0,82	145	3863	94.2	0,74	65	3459	90.5	0,61
	1150	**1NA1 454-4AR30-0C.0**	1793	96.7	0,84	196	6125	2,70	27.6	2400	460	4917	96.6	0,82	145	3865	94.5	0,76	65	3461	91.6	0,65
	1200	**1NA1 456-4AR30-0A.0**	1794	96.7	0,84	205	6387	3,60	24.8	2400	480	5125	96.7	0,81	150	4029	94.1	0,74	65	3608	90.5	0,60
	1210	**1NA1 456-4AR30-0C.0**	1794	96.7	0,84	205	6441	3,00	31.8	2400	485	5169	96.8	0,81	150	4063	94.6	0,75	70	3639	91.7	0,64
	1300	**1NA1 458-4AR30-0A.0**	1794	96.8	0,85	220	6920	3,90	27.3	2400	520	5551	96.8	0,81	165	4363	94.3	0,73	75	3907	90.8	0,60
	1310	**1NA1 458-4AR30-0C.0**	1794	96.8	0,84	225	6973	3,20	34.8	2400	525	5594	96.8	0,82	165	4397	94.8	0,75	75	3938	91.9	0,63
	1510	**1NA1 504-4AR30-0A.0**	1792	96.4	0,88	245	8047	2,70	32.6	2200	605	6460	96.7	0,87	190	5078	94.8	0,83	85	4547	92.3	0,74
	1510	**1NA1 504-4AR30-0C.0**	1792	96.5	0,86	255	8047	2,20	42.5	2200	605	6460	96.8	0,86	190	5078	95.1	0,83	85	4547	93.0	0,76
	1660	**1NA1 506-4AR30-0A.0**	1793	96.6	0,88	270	8841	3,20	37.1	2200	665	7094	96.8	0,86	210	5577	94.7	0,81	95	4994	92.0	0,71
	1670	**1NA1 506-4AR30-0C.0**	1793	96.7	0,87	275	8894	2,50	48.0	2200	670	7136	96.9	0,86	210	5609	95.1	0,82	95	5023	92.9	0,74
	1750	**1NA1 508-4AR30-0A.0**	1793	96.7	0,89	280	9320	3,20	42.5	2200	700	7478	96.9	0,87	220	5878	95.2	0,82	100	5263	92.8	0,74
	1750	**1NA1 508-4AR30-0C.0**	1794	96.8	0,87	290	9315	2,50	54.7	2200	700	7477	97.0	0,86	220	5877	95.4	0,82	100	5263	93.4	0,75
	2050	**1NA1 562-4AR30-0C.0**	1793	96.7	0,86	340	10918	2,10	72.5	2000	820	8760	97.1	0,86	255	6886	95.6	0,83	115	6166	93.8	0,76
	2060	**1NA1 562-4AR30-0A.0**	1793	96.6	0,87	340	10971	2,40	54.5	2000	825	8805	97.0	0,86	260	6922	95.5	0,83	115	6198	93.4	0,74
	2255	**1NA1 564-4AR30-0A.0**	1794	96.7	0,88	370	12003	2,60	60.0	2000	900	9618	97.1	0,87	280	7560	95.4	0,83	125	6770	93.3	0,74
	2255	**1NA1 564-4AR30-0C.0**	1793	96.9	0,87	370	12010	2,20	79.4	2000	900	9618	97.2	0,86	280	7560	95.6	0,83	125	6770	93.7	0,76
	2420	**1NA1 566-4AR30-0A.0**	1794	96.8	0,88	395	12881	2,80	66.7	2000	970	10337	97.2	0,87	305	8125	95.3	0,82	135	7276	92.9	0,73
	2455	**1NA1 566-4AR30-0C.0**	1794	97.0	0,88	400	13068	2,40	88.1	2000	980	10470	97.2	0,87	305	8230	95.5	0,83	135	7370	93.5	0,76
	2650	**1NA1 568-4AR30-0A.0**	1795	97.0	0,89	425	14098	3,10	73.5	2000	1060	11313	97.2	0,87	330	8892	94.8	0,81	150	7963	92.1	0,70
	2670	**1NA1 568-4AR30-0C.0**	1795	97.1	0,88	435	14204	2,70	96.7	2000	1070	11401	97.3	0,86	335	8962	95.1	0,82	150	8025	92.9	0,73
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - const torque drive																						
	800	**1NA1 454-6AR30-0A.0**	1194	96.3	0,81	142	6398	2,20	31.8	2200	320	5135	96.0	0,80	100	4037	93.5	0,75	45	3615	89.9	0,65
	850	**1NA1 454-6AR30-0C.0**	1194	96.5	0,84	146	6798	2,30	41.0	2200	340	5460	96.1	0,82	105	4292	93.5	0,78	45	3843	90.1	0,69
	900	**1NA1 456-6AR30-0A.0**	1194	96.5	0,81	160	7198	2,40	36.9	2200	360	5775	96.2	0,80	115	4539	93.7	0,75	50	4065	90.3	0,65
	950	**1NA1 456-6AR30-0C.0**	1194	96.6	0,84	162	7598	2,50	47.3	2200	380	6098	96.2	0,82	120	4793	93.7	0,78	55	4292	90.5	0,68

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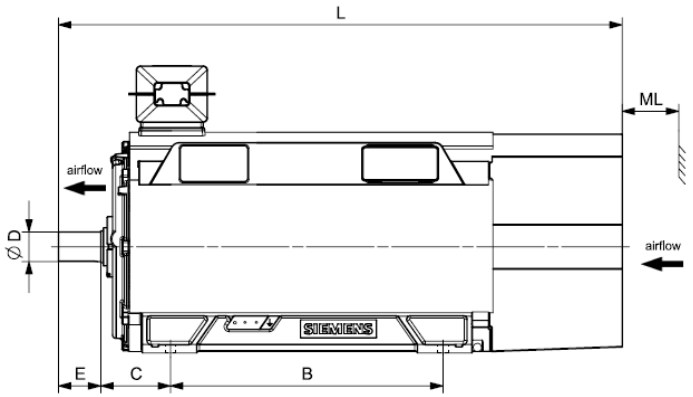
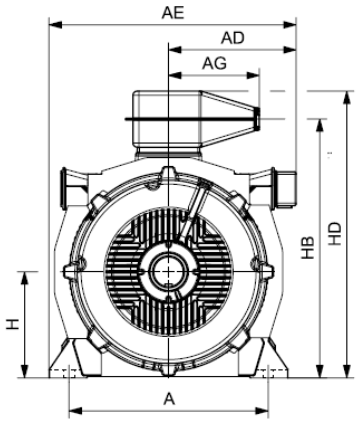
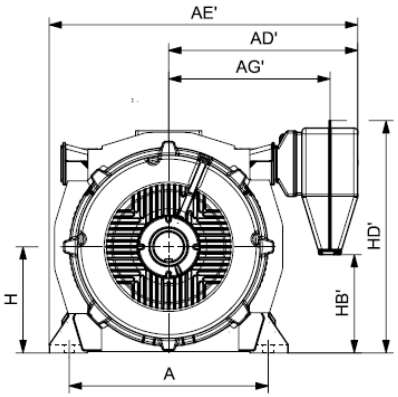
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	1000	**1NA1 458-6AR30-0A.0**	1195	96.5	0,81	178	7991	2,80	43.6	2200	400	6413	96.3	0,78	125	5041	93.9	0,72	55	4514	90.2	0,59
	1000	**1NA1 458-6AR30-0C.0**	1195	96.6	0,83	174	7991	3,00	55.8	2200	400	6409	96.3	0,80	125	5038	93.9	0,73	55	4511	90.4	0,61
	1150	**1NA1 502-6AR30-0A.0**	1193	96.5	0,83	200	9205	2,20	52.8	2100	460	7391	96.2	0,83	145	5810	93.9	0,82	65	5202	90.8	0,75
	1200	**1NA1 502-6AR30-0C.0**	1195	96.6	0,86	200	9589	2,10	67.6	2100	480	7703	96.5	0,86	150	6055	94.5	0,84	65	5422	91.8	0,77
	1250	**1NA1 504-6AR30-0A.0**	1194	96.6	0,85	210	9997	2,40	59.7	2100	500	8028	96.4	0,84	155	6311	94.0	0,82	70	5651	90.9	0,74
	1320	**1NA1 504-6AR30-0C.0**	1195	96.8	0,87	220	10548	2,20	76.2	2100	530	8469	96.6	0,87	165	6657	94.6	0,84	75	5961	92.0	0,77
	1310	**1NA1 506-6AR30-0A.0**	1195	96.7	0,85	220	10468	2,80	67.4	2100	525	8404	96.5	0,84	165	6606	94.1	0,80	75	5916	90.8	0,71
	1400	**1NA1 506-6AR30-0C.0**	1196	96.8	0,87	230	11178	2,50	85.6	2100	560	8972	96.7	0,86	175	7053	94.6	0,83	80	6315	91.9	0,74
	1450	**1NA1 508-6AR30-0A.0**	1195	96.8	0,86	240	11587	2,90	76.4	2100	580	9301	96.5	0,85	180	7311	94.1	0,81	80	6547	91.0	0,71
	1520	**1NA1 508-6AR30-0C.0**	1196	96.9	0,87	250	12136	2,60	96.8	2100	610	9739	96.8	0,86	190	7655	94.7	0,83	85	6855	92.0	0,74
	2000	**1NA1 564-6AR30-0C.0**	1195	97.2	0,88	325	15982	2,40	136.8	2000	800	12828	97.2	0,88	250	10084	95.3	0,86	110	9029	93.1	0,80
	2230	**1NA1 566-6AR30-0C.0**	1195	97.3	0,88	360	17820	2,40	151.9	2000	890	14302	97.3	0,88	280	11243	95.3	0,86	125	10067	93.2	0,80
	2330	**1NA1 568-6AR30-0C.0**	1196	97.3	0,87	380	18604	2,90	167.0	2000	935	14927	97.3	0,87	290	11734	95.1	0,83	130	10507	92.8	0,75
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - const torque drive																						
	720	**1NA1 454-8AR30-0A.0**	893	96.0	0,78	134	7699	1,90	32.0	2200	290	6179	95.4	0,78	90	4857	92.3	0,75	40	4349	87.9	0,66
	750	**1NA1 454-8AR30-0C.0**	893	96.0	0,81	134	8020	2,00	41.1	2200	300	6438	95.4	0,80	95	5060	92.3	0,76	40	4531	87.9	0,68
	770	**1NA1 456-8AR30-0A.0**	894	96.1	0,79	140	8225	2,20	37.1	2200	310	6601	95.6	0,78	95	5189	92.4	0,73	45	4647	87.9	0,64
	770	**1NA1 456-8AR30-0C.0**	895	96.1	0,80	140	8216	2,20	47.5	2200	310	6598	95.6	0,79	95	5186	92.4	0,74	45	4644	88.0	0,64
	800	**1NA1 458-8AR30-0A.0**	895	96.2	0,77	150	8536	2,70	43.9	2200	320	6849	95.8	0,75	100	5384	92.5	0,68	45	4821	87.7	0,56
	800	**1NA1 458-8AR30-0C.0**	896	96.1	0,78	148	8526	2,80	55.9	2200	320	6843	95.8	0,75	100	5379	92.4	0,68	45	4816	87.7	0,56
	850	**1NA1 504-8AR30-0C.0**	896	95.8	0,84	146	9059	2,50	75.7	2100	340	7273	95.4	0,82	105	5717	92.9	0,77	45	5119	89.1	0,68
	850	**1NA1 504-8AR30-0A.0**	896	95.9	0,80	154	9059	2,50	58.9	2100	340	7277	95.5	0,78	105	5720	92.9	0,72	45	5122	88.7	0,61
	910	**1NA1 506-8AR30-0A.0**	895	96.0	0,81	162	9709	2,30	66.4	2100	365	7789	95.6	0,80	115	6122	93.0	0,75	50	5482	89.2	0,66
	910	**1NA1 506-8AR30-0C.0**	896	95.8	0,84	156	9699	2,70	85.2	2100	365	7783	95.5	0,82	115	6118	93.0	0,76	50	5478	89.3	0,67
	940	**1NA1 508-8AR30-0A.0**	895	96.1	0,82	166	10029	2,30	75.3	2100	375	8045	95.8	0,80	115	6324	93.5	0,75	50	5663	90.1	0,67
	940	**1NA1 508-8AR30-0C.0**	896	96.0	0,84	162	10018	2,80	96.4	2100	375	8039	95.7	0,82	120	6319	93.4	0,77	50	5658	90.1	0,68
	1250	**1NA1 564-8AR30-0C.0**	896	96.7	0,85	210	13322	2,40	136.4	2000	500	10697	96.6	0,84	155	8408	94.4	0,80	70	7529	91.7	0,72
	1450	**1NA1 566-8AR30-0C.0**	896	96.8	0,84	245	15454	2,50	151.8	2000	580	12402	96.7	0,83	180	9749	94.4	0,79	80	8730	91.5	0,70
	1520	**1NA1 568-8AR30-0C.0**	896	96.8	0,84	260	16200	2,90	167.1	2000	610	12990	96.8	0,82	190	10211	94.4	0,76	85	9143	91.5	0,66







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2AR30-0C.0	4800	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 456-2AR30-0C.0	5000	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 458-2AR30-0C.0	5300	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2286	180
1NA1 504-2AR30-0CC0	6200	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 506-2AR30-0CC0	6700	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 508-2AR30-0CC0	6900	950	610	894	1175	1459	489	763	1320	475	110	165	500	1221	403	1352	1095	2662	200
1NA1 566-2AR30-0CC0	8600	1060	670	954	1305	1589	489	823	1400	560	120	165	560	1348	509	1479	1201	2922	225
1NA1 568-2AR30-0CC0	9100	1060	670	954	1305	1589	489	823	1400	560	120	165	560	1348	509	1479	1201	2922	225
4-pole																			
1NA1 454-4AR30-0A.0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-4AR30-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-4AR30-0A.0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-4AR30-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-4AR30-0A.0	5300	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-4AR30-0C.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 504-4AR30-0A.0	6200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-4AR30-0C.0	6400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-4AR30-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-4AR30-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-4AR30-0A.0	7100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-4AR30-0C.0	7400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 562-4AR30-0C.0	8300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225

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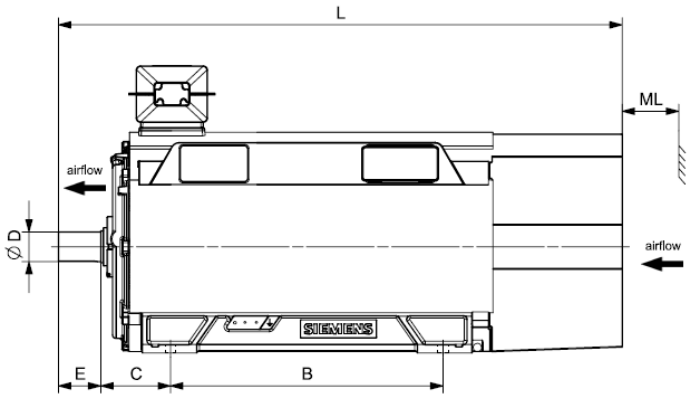

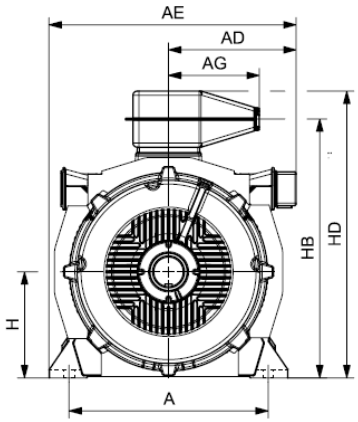

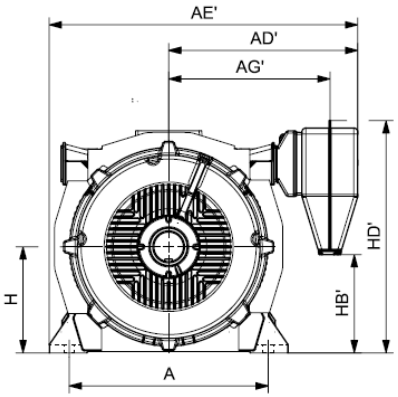

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 562-4AR30-0A.0	8000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 564-4AR30-0A.0	8400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 564-4AR30-0C.0	8700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-4AR30-0A.0	8900	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-4AR30-0C.0	9200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-4AR30-0A.0	9400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-4AR30-0C.0	9800	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
6-pole																			
1NA1 454-6AR30-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-6AR30-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-6AR30-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-6AR30-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-6AR30-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-6AR30-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 502-6AR30-0A.0	6000	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 502-6AR30-0C.0	6200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-6AR30-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-6AR30-0C.0	6600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-6AR30-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-6AR30-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-6AR30-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-6AR30-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 564-6AR30-0C.0	9100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225

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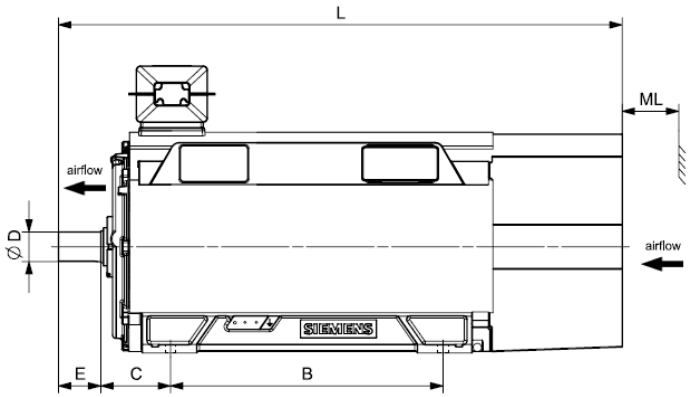

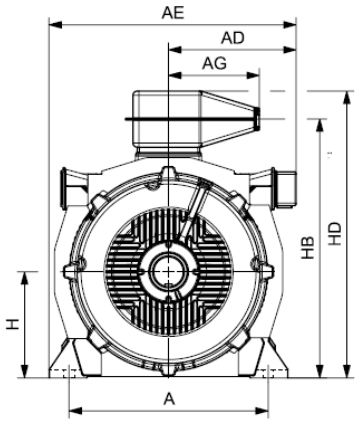

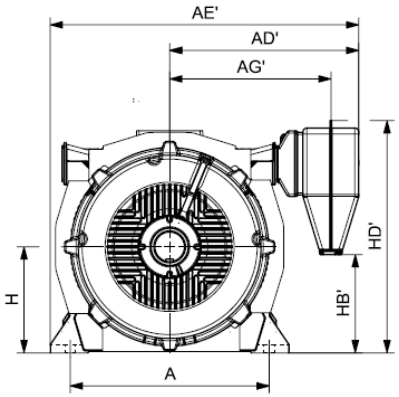

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 566-6AR30-0C.0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-6AR30-0C.0	10300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
8-pole																			
1NA1 454-8AR30-0A.0	4600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 454-8AR30-0C.0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-8AR30-0A.0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 456-8AR30-0C.0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-8AR30-0A.0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 458-8AR30-0C.0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2457	180
1NA1 504-8AR30-0C.0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 504-8AR30-0A.0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-8AR30-0A.0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 506-8AR30-0C.0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-8AR30-0A.0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 508-8AR30-0C.0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	2672	200
1NA1 564-8AR30-0C.0	9000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 566-8AR30-0C.0	9600	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225
1NA1 568-8AR30-0C.0	10200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	2847	225

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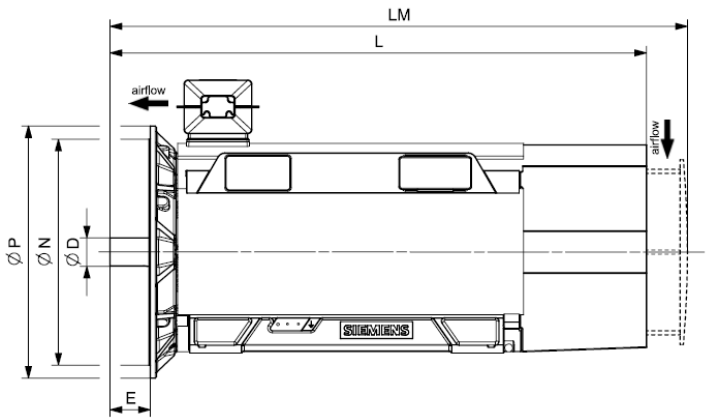

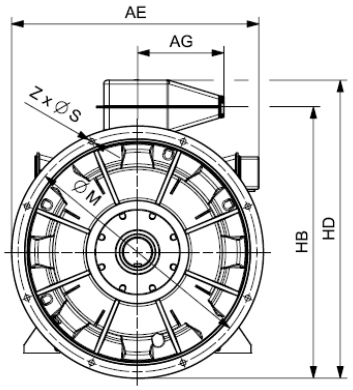

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 454-4AR34-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-4AR34-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AR34-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-4AR34-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AR34-0AA0	5500	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-4AR34-0CA0	5700	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 504-4AR34-0AA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-4AR34-0CA0	6600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AR34-0AA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-4AR34-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AR34-0AA0	7300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-4AR34-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 562-4AR34-0CA0	8500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 562-4AR34-0AA0	8200	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AR34-0AA0	8600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 564-4AR34-0CA0	8900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AR34-0AA0	9100	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-4AR34-0CA0	9400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AR34-0AA0	9600	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-4AR34-0CA0	10000	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
6-pole													
1NA1 454-6AR34-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8

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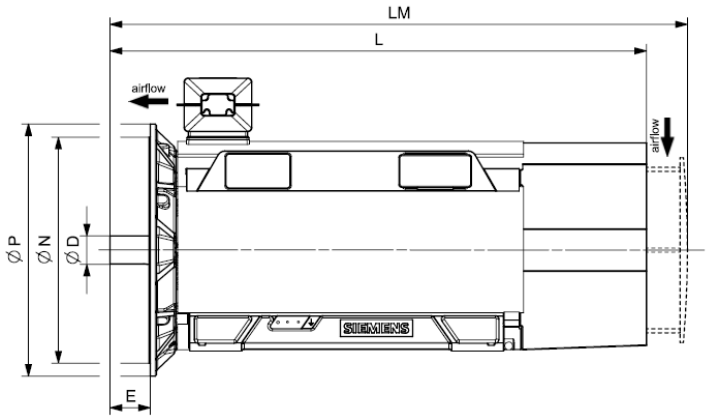

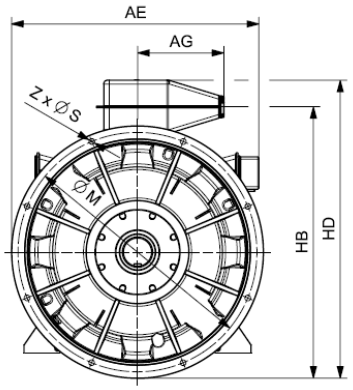

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 454-6AR34-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AR34-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-6AR34-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AR34-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-6AR34-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 502-6AR34-0AA0	6200	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 502-6AR34-0CA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AR34-0AA0	6500	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-6AR34-0CA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AR34-0AA0	6900	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-6AR34-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AR34-0AA0	7300	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-6AR34-0CA0	7600	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-6AR34-0CA0	9300	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-6AR34-0CA0	9900	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-6AR34-0CA0	10500	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
8-pole													
1NA1 454-8AR34-0AA0	4800	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 454-8AR34-0CA0	5000	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AR34-0AA0	5200	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 456-8AR34-0CA0	5400	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AR34-0AA0	5600	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8
1NA1 458-8AR34-0CA0	5900	1139	489	120	1240	1371	2457	2657	1080	1000	1150	26	8

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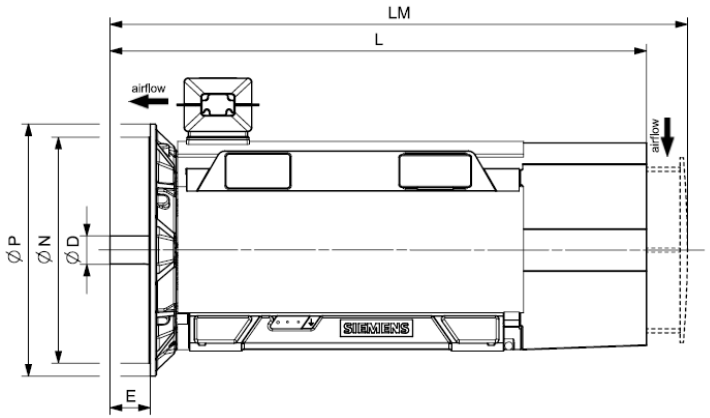

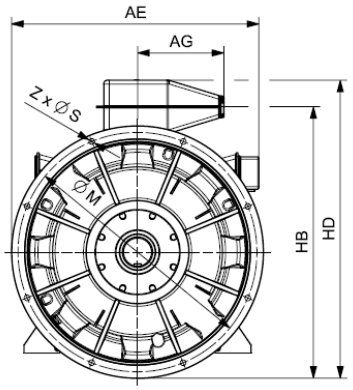

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-8AR34-0CA0	6700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 504-8AR34-0AA0	6400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AR34-0AA0	6800	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 506-8AR34-0CA0	7100	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AR34-0AA0	7400	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 508-8AR34-0CA0	7700	1235	489	140	1346	1477	2672	2872	1180	1120	1250	26	16
1NA1 564-8AR34-0CA0	9300	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 566-8AR34-0CA0	9800	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16
1NA1 568-8AR34-0CA0	10400	1370	489	160	1488	1619	2847	3087	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC416 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - const torque drive																						
780	690	**1NA1 402-2BC00-0AA0**	2979	96.6	0,93	730	2500	3,30	10.0	3600	365	2368	95.6	0,92	130	2125	92.5	0,91	60	2014	87.4	0,91
770	680	**1NA1 402-2BC00-0CA0**	2980	96.5	0,93	720	2467	3,30	12.3	3600	360	2336	95.5	0,92	130	2097	92.4	0,90	60	1987	87.5	0,91
800	710	**1NA1 404-2BC00-0AA0**	2979	96.6	0,94	740	2564	3,60	11.0	3600	375	2428	95.6	0,93	135	2179	92.5	0,92	60	2065	87.5	0,92
800	710	**1NA1 404-2BC00-0CA0**	2980	96.5	0,94	740	2564	3,50	13.5	3600	375	2427	95.5	0,93	135	2178	92.4	0,92	60	2065	87.5	0,92
930	820	**1NA1 406-2BC00-0AA0**	2980	96.8	0,94	860	2980	3,60	12.2	3600	440	2822	95.9	0,93	155	2533	93.1	0,92	70	2400	88.6	0,92
920	810	**1NA1 406-2BC00-0CA0**	2981	96.8	0,94	850	2947	3,50	14.9	3600	435	2790	95.9	0,93	155	2504	93.1	0,91	70	2373	88.8	0,91
1000	880	**1NA1 408-2BC00-0AA0**	2981	96.8	0,95	910	3203	4,20	13.0	3600	470	3036	95.9	0,94	165	2724	93.1	0,92	75	2582	88.7	0,92
970	860	**1NA1 408-2BC00-0CA0**	2983	96.8	0,95	880	3105	4,20	15.9	3600	460	2943	95.8	0,93	160	2641	93.2	0,92	75	2503	89.0	0,92
1070	940	**1NA1 454-2BC00-0AA0**	2982	97.0	0,94	980	3426	2,60	14.1	3600	505	3244	96.0	0,93	180	2911	93.0	0,92	85	2759	88.2	0,92
1060	930	**1NA1 454-2BC00-0CA0**	2983	96.9	0,94	970	3393	2,60	19.1	3600	500	3214	95.9	0,93	175	2884	93.0	0,92	80	2734	88.3	0,93
1260	1110	**1NA1 456-2BC00-0AA0**	2984	97.3	0,94	1160	4032	3,00	15.6	3600	595	3817	96.4	0,93	210	3426	93.8	0,92	100	3247	89.6	0,92
1260	1110	**1NA1 456-2BC00-0CA0**	2984	97.2	0,94	1160	4032	2,90	21.0	3600	595	3817	96.3	0,94	210	3426	93.8	0,92	100	3247	89.7	0,93
1300	1150	**1NA1 458-2BC00-0AA0**	2984	97.3	0,95	1180	4160	3,00	16.8	3600	615	3938	96.4	0,94	215	3534	93.7	0,93	100	3349	89.5	0,93
1300	1150	**1NA1 458-2BC00-0CA0**	2985	97.2	0,95	1180	4159	2,90	22.6	3600	615	3938	96.3	0,94	220	3534	93.8	0,93	100	3349	89.7	0,93
1550	1370	**1NA1 504-2BC00-0CA0**	2987	97.1	0,91	1460	4955	3,10	30.1	3000	730	4692	96.2	0,90	260	4211	94.1	0,89	120	3991	90.7	0,90
1620	1430	**1NA1 506-2BC00-0CA0**	2987	97.1	0,92	1520	5179	3,20	33.7	3000	765	4904	96.1	0,91	270	4401	94.0	0,90	125	4171	90.6	0,91
1900	1670	**1NA1 508-2BC00-0CA0**	2989	97.3	0,91	1800	6070	3,70	36.7	3000	895	5746	96.4	0,91	320	5157	94.6	0,90	150	4888	91.9	0,90
2100	1850	**1NA1 566-2BC00-0CA0**	2989	97.2	0,92	1960	6709	2,80	55.3	3000	990	6353	96.4	0,92	355	5701	94.4	0,91	165	5404	91.2	0,92
2250	1980	**1NA1 568-2BC00-0CA0**	2992	97.3	0,92	2100	7181	3,60	60.0	3000	1065	6798	96.5	0,91	380	6101	94.7	0,91	180	5783	92.0	0,91
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - const torque drive																						
870	770	**1NA1 404-4BC00-0AA0**	1490	96.5	0,89	850	5576	3,20	15.6	2600	410	5279	94.9	0,88	145	4737	91.8	0,88	65	4490	86.9	0,88
860	760	**1NA1 404-4BC00-0CA0**	1489	96.5	0,89	840	5515	2,80	19.8	2600	405	5224	95.0	0,88	145	4688	91.7	0,88	65	4443	86.5	0,88
950	840	**1NA1 406-4BC00-0AA0**	1491	96.6	0,90	910	6084	3,40	17.4	2600	450	5761	95.0	0,89	160	5170	92.1	0,88	75	4900	87.6	0,88
950	840	**1NA1 406-4BC00-0CA0**	1490	96.6	0,89	920	6088	3,00	22.0	2600	445	5767	95.2	0,89	160	5175	92.1	0,88	75	4905	87.3	0,88
1050	930	**1NA1 408-4BC00-0AA0**	1491	96.7	0,90	1000	6725	3,60	19.7	2600	495	6365	95.1	0,89	175	5712	92.4	0,88	80	5414	88.3	0,88
1050	930	**1NA1 408-4BC00-0CA0**	1490	96.7	0,90	1000	6729	3,20	24.9	2600	495	6370	95.4	0,89	175	5716	92.6	0,88	80	5418	88.1	0,88
1200	1060	**1NA1 454-4BC00-0AA0**	1490	96.8	0,90	1160	7691	2,80	26.4	2400	565	7283	95.5	0,89	200	6536	92.5	0,88	90	6195	87.9	0,88
1200	1060	**1NA1 454-4BC00-0CA0**	1490	96.8	0,89	1160	7691	2,50	33.9	2400	565	7284	95.6	0,88	200	6537	92.6	0,87	95	6196	87.8	0,88
1300	1150	**1NA1 456-4BC00-0CA0**	1491	97.0	0,90	1240	8326	2,70	39.0	2400	615	7885	95.8	0,89	215	7076	93.0	0,88	100	6707	88.7	0,88
1300	1150	**1NA1 456-4BC00-0AA0**	1491	97.0	0,91	1240	8326	3,00	30.4	2400	615	7885	95.7	0,90	215	7076	93.0	0,88	100	6707	88.7	0,88
1450	1280	**1NA1 458-4BC00-0AA0**	1491	97.1	0,90	1380	9287	3,10	33.5	2400	685	8792	95.9	0,89	240	7891	93.3	0,88	110	7479	89.3	0,88
1450	1280	**1NA1 458-4BC00-0CA0**	1492	97.1	0,89	1400	9280	2,70	42.8	2400	685	8789	96.0	0,88	240	7888	93.5	0,87	110	7476	89.5	0,87
1410	1240	**1NA1 504-4BC00-0CA0**	1491	96.7	0,86	1420	9031	2,30	42.4	2200	665	8551	95.6	0,86	235	7674	92.9	0,85	110	7273	88.6	0,86
1410	1240	**1NA1 504-4BC00-0AA0**	1491	96.7	0,88	1380	9031	2,90	32.5	2200	665	8554	95.4	0,87	235	7677	92.6	0,86	110	7276	88.3	0,86

SIMOTICS HV C - 1NA1 IC416 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1500	1320	**1NA1 506-4BC00-0AA0**	1491	96.7	0,89	1460	9607	3,10	37.1	2200	705	9096	95.4	0,89	250	8163	92.6	0,88	115	7737	88.3	0,88
1500	1320	**1NA1 506-4BC00-0CA0**	1492	96.8	0,88	1480	9600	2,40	48.0	2200	705	9095	95.6	0,88	250	8162	92.9	0,87	115	7736	88.6	0,87
1700	1500	**1NA1 508-4BC00-0AA0**	1493	97.0	0,89	1640	10873	3,60	42.4	2200	800	10298	95.6	0,88	285	9242	93.3	0,86	135	8759	89.8	0,86
1700	1500	**1NA1 508-4BC00-0CA0**	1493	97.0	0,88	1660	10873	2,80	54.6	2200	800	10295	95.9	0,87	285	9239	93.7	0,86	135	8757	90.2	0,86
1960	1730	**1NA1 564-4BC00-0AA0**	1493	97.2	0,89	1900	12536	2,60	59.9	2000	925	11873	96.0	0,88	330	10656	93.5	0,87	155	10100	89.7	0,88
1950	1720	**1NA1 564-4BC00-0CA0**	1492	97.2	0,88	1900	12481	2,30	79.4	2000	920	11816	96.1	0,87	325	10604	93.6	0,87	150	10050	89.7	0,87
2000	1760	**1NA1 566-4BC00-0AA0**	1492	97.2	0,90	1920	12801	2,70	66.7	2000	945	12116	96.0	0,89	335	10873	93.5	0,88	155	10306	89.7	0,89
2000	1760	**1NA1 566-4BC00-0CA0**	1492	97.3	0,89	1940	12801	2,30	88.0	2000	945	12117	96.1	0,89	335	10874	93.5	0,88	155	10306	89.6	0,88
2150	1900	**1NA1 568-4BC00-0AA0**	1494	97.3	0,90	2050	13742	3,20	73.4	2000	1015	13019	96.1	0,89	360	11684	93.8	0,88	170	11074	90.2	0,88
2150	1890	**1NA1 568-4BC00-0CA0**	1494	97.4	0,90	2050	13742	2,70	96.7	2000	1015	13015	96.2	0,89	360	11680	93.9	0,88	170	11070	90.3	0,88
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - const torque drive																						
710	630	**1NA1 404-6BC00-0AA0**	994	96.1	0,88	700	6821	3,00	25.8	2400	335	6460	94.1	0,87	120	5797	90.4	0,86	55	5495	84.9	0,87
720	640	**1NA1 404-6BC00-0CA0**	993	96.2	0,87	720	6924	2,60	33.2	2400	340	6561	94.4	0,87	120	5888	90.5	0,86	55	5581	84.5	0,87
730	640	**1NA1 406-6BC00-0AA0**	995	96.3	0,88	720	7006	3,40	29.6	2400	345	6635	94.3	0,87	120	5954	90.9	0,86	55	5643	86.1	0,86
760	670	**1NA1 406-6BC00-0CA0**	994	96.3	0,88	750	7301	2,80	38.0	2400	360	6918	94.7	0,87	125	6208	91.2	0,86	60	5884	85.8	0,87
800	710	**1NA1 408-6BC00-0AA0**	995	96.2	0,87	800	7678	4,00	33.5	2400	375	7270	94.2	0,85	135	6524	91.0	0,84	60	6184	86.5	0,84
810	710	**1NA1 408-6BC00-0CA0**	995	96.5	0,87	810	7774	3,30	41.9	2400	380	7362	94.9	0,86	135	6607	91.8	0,85	65	6262	87.1	0,85
970	860	**1NA1 454-6BC00-0AA0**	993	96.3	0,86	980	9328	2,70	39.5	2200	455	8836	94.5	0,85	160	7930	90.9	0,85	75	7516	85.4	0,86
1000	880	**1NA1 454-6BC00-0CA0**	992	96.3	0,85	1020	9626	2,30	49.1	2200	470	9118	94.6	0,85	165	8183	90.8	0,85	75	7756	84.7	0,86
1020	900	**1NA1 456-6BC00-0AA0**	995	96.5	0,85	1040	9789	3,40	45.8	2200	480	9273	94.7	0,83	170	8322	91.6	0,83	80	7888	86.9	0,83
1050	930	**1NA1 456-6BC00-0CA0**	994	96.6	0,86	1060	10087	2,90	56.8	2200	495	9554	95.0	0,84	175	8574	91.9	0,84	80	8127	87.0	0,84
1070	940	**1NA1 458-6BC00-0AA0**	995	96.6	0,86	1080	10269	3,70	54.3	2200	505	9722	95.0	0,84	180	8725	92.3	0,83	85	8270	88.2	0,83
1100	970	**1NA1 458-6BC00-0CA0**	995	96.8	0,86	1100	10557	3,10	67.0	2200	520	10001	95.3	0,85	185	8975	92.6	0,84	85	8507	88.4	0,84
1250	1100	**1NA1 502-6BC00-0AA0**	991	96.4	0,83	1300	12045	2,00	52.8	2100	590	11411	94.9	0,84	205	10240	91.1	0,84	95	9706	85.3	0,85
1300	1150	**1NA1 502-6BC00-0CA0**	993	96.7	0,86	1300	12502	1,80	67.5	2100	610	11837	95.4	0,86	215	10623	92.1	0,87	100	10069	87.0	0,88
1350	1190	**1NA1 504-6BC00-0CA0**	993	96.7	0,87	1340	12982	1,80	76.1	2100	635	12300	95.4	0,87	225	11039	92.0	0,88	105	10463	86.9	0,89
1300	1150	**1NA1 504-6BC00-0AA0**	991	96.5	0,85	1320	12527	2,00	59.7	2100	610	11864	94.9	0,86	215	10647	91.1	0,86	100	10091	85.4	0,87
1510	1330	**1NA1 506-6BC00-0CA0**	994	96.9	0,87	1500	14506	2,00	85.6	2100	710	13742	95.5	0,87	250	12333	92.6	0,88	115	11689	88.0	0,88
1450	1280	**1NA1 506-6BC00-0AA0**	992	96.6	0,86	1460	13958	2,20	67.3	2100	685	13217	95.0	0,86	240	11862	91.7	0,86	110	11243	86.6	0,87
1610	1420	**1NA1 508-6BC00-0AA0**	993	96.8	0,86	1620	15483	2,60	76.4	2100	760	14660	95.2	0,86	270	13157	92.2	0,86	125	12470	87.7	0,86
1700	1500	**1NA1 508-6BC00-0CA0**	995	97.0	0,87	1680	16315	2,30	96.7	2100	800	15453	95.7	0,87	285	13869	93.0	0,87	130	13145	88.9	0,87
2100	1850	**1NA1 564-6BC00-0CA0**	994	97.2	0,88	2050	20175	2,20	136.7	2000	990	19111	95.9	0,88	350	17151	93.0	0,89	160	16256	88.6	0,89
2270	2000	**1NA1 566-6BC00-0CA0**	995	97.4	0,87	2250	21786	2,70	151.9	2000	1070	20621	96.1	0,87	380	18506	93.9	0,87	175	17540	90.4	0,87
2350	2070	**1NA1 568-6BC00-0CA0**	995	97.4	0,88	2300	22554	2,60	167.0	2000	1110	21356	96.1	0,88	395	19166	93.7	0,89	185	18166	90.1	0,89
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - const torque drive																						

SIMOTICS HV C - 1NA1 IC416 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
560	490	**1NA1 404-8BC00-0AA0**	743	95.6	0,84	580	7197	2,60	26.7	2400	265	6822	92.8	0,83	90	6122	87.4	0,82	40	5803	79.5	0,83
550	490	**1NA1 404-8BC00-0CA0**	741	95.5	0,82	590	7088	2,20	32.8	2400	260	6709	92.8	0,81	90	6021	87.0	0,80	40	5707	78.5	0,82
600	530	**1NA1 406-8BC00-0AA0**	745	95.8	0,81	650	7691	3,40	30.6	2400	280	7288	92.9	0,79	100	6540	88.2	0,77	45	6199	81.6	0,78
600	530	**1NA1 406-8BC00-0CA0**	744	95.9	0,81	650	7701	2,80	37.6	2400	280	7300	93.3	0,79	100	6551	88.5	0,78	45	6209	81.5	0,79
620	550	**1NA1 408-8BC00-0AA0**	744	95.9	0,84	640	7958	3,20	33.8	2400	290	7535	93.1	0,82	105	6762	88.5	0,80	45	6409	81.9	0,81
610	540	**1NA1 408-8BC00-0CA0**	743	95.9	0,83	640	7840	2,70	41.5	2400	285	7424	93.4	0,81	100	6663	88.6	0,80	45	6315	81.7	0,81
800	710	**1NA1 454-8BC00-0AA0**	742	95.7	0,80	870	10296	2,10	40.0	2200	375	9749	93.1	0,80	130	8749	87.8	0,81	60	8292	79.9	0,82
760	670	**1NA1 454-8BC00-0CA0**	741	95.6	0,80	830	9794	2,30	48.8	2200	355	9275	93.1	0,80	125	8324	87.5	0,81	55	7889	79.3	0,82
850	750	**1NA1 456-8BC00-0AA0**	743	95.9	0,81	920	10924	2,40	46.4	2200	400	10346	93.4	0,80	140	9285	88.5	0,81	65	8800	81.4	0,82
850	750	**1NA1 456-8BC00-0CA0**	742	95.8	0,81	920	10939	2,50	56.4	2200	400	10363	93.4	0,80	140	9300	88.3	0,81	65	8815	80.6	0,82
910	800	**1NA1 458-8BC00-0AA0**	745	96.2	0,79	1000	11664	3,00	54.9	2200	430	11049	93.9	0,77	150	9916	90.0	0,77	70	9398	84.4	0,77
920	810	**1NA1 458-8BC00-0CA0**	744	96.2	0,80	1000	11808	3,00	66.6	2200	435	11187	94.1	0,78	155	10040	90.1	0,78	70	9516	84.0	0,79
1000	880	**1NA1 504-8BC00-0AA0**	743	95.9	0,80	1100	12852	1,70	58.9	2100	470	12179	94.2	0,80	165	10930	90.1	0,80	75	10360	83.6	0,81
1050	930	**1NA1 504-8BC00-0CA0**	743	95.9	0,85	1080	13495	1,90	75.7	2100	495	12782	94.3	0,84	175	11471	90.5	0,84	80	10872	84.4	0,84
1100	970	**1NA1 506-8BC00-0AA0**	743	96.0	0,81	1180	14138	1,90	66.4	2100	515	13383	94.3	0,81	180	12010	90.5	0,80	85	11383	84.6	0,81
1120	990	**1NA1 506-8BC00-0CA0**	744	96.0	0,85	1140	14375	2,10	85.2	2100	525	13613	94.4	0,84	185	12217	90.9	0,83	85	11579	85.5	0,84
1150	1010	**1NA1 508-8BC00-0AA0**	744	96.1	0,82	1220	14760	2,00	75.3	2100	540	13983	94.4	0,81	190	12549	90.8	0,81	90	11894	85.2	0,81
1160	1020	**1NA1 508-8BC00-0CA0**	745	96.1	0,85	1180	14869	2,30	96.4	2100	545	14090	94.5	0,84	195	12645	91.1	0,83	90	11985	86.0	0,84
1620	1430	**1NA1 564-8BC00-0CA0**	744	96.6	0,85	1660	20793	1,80	136.4	2000	765	19714	95.1	0,85	270	17692	91.4	0,86	125	16768	85.8	0,87
1710	1510	**1NA1 566-8BC00-0CA0**	744	96.7	0,85	1740	21948	1,80	151.7	2000	805	20811	95.2	0,86	285	18677	91.6	0,86	130	17702	86.2	0,87
1870	1650	**1NA1 568-8BC00-0CA0**	744	96.9	0,85	1900	24002	2,00	167.0	2000	880	22731	95.3	0,85	310	20399	92.1	0,86	145	19335	87.3	0,86

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2BC00-0AA0	3500	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 402-2BC00-0CA0	3500	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 404-2BC00-0AA0	3600	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 404-2BC00-0CA0	3700	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 406-2BC00-0AA0	3800	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 406-2BC00-0CA0	3900	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 408-2BC00-0AA0	3900	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 408-2BC00-0CA0	4000	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 454-2BC00-0AA0	4700	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2895	180
1NA1 454-2BC00-0CA0	4800	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2895	180
1NA1 456-2BC00-0AA0	4900	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2895	180
1NA1 456-2BC00-0CA0	5100	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2895	180
1NA1 458-2BC00-0AA0	5100	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2895	180
1NA1 458-2BC00-0CA0	5300	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2895	180
1NA1 504-2BC00-0CA0	6400	950	610	1029	1175	1594	371	885	1320	280	110	165	500	1343	522	1508	1194	3096	200
1NA1 506-2BC00-0CA0	6700	950	610	1029	1175	1594	371	885	1320	280	110	165	500	1343	522	1508	1194	3096	200
1NA1 508-2BC00-0CA0	7100	950	610	1029	1175	1594	371	885	1320	280	110	165	500	1343	522	1508	1194	3096	200
1NA1 566-2BC00-0CA0	8900	1060	670	1089	1305	1724	371	945	1400	290	120	165	560	1470	627	1635	1300	3302	225
1NA1 568-2BC00-0CA0	9300	1060	670	1089	1305	1724	371	945	1400	290	120	165	560	1470	627	1635	1300	3302	225
4-pole																			
1NA1 404-4BC00-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 404-4BC00-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-4BC00-0AA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-4BC00-0CA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-4BC00-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-4BC00-0CA0	4200	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 454-4BC00-0AA0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 454-4BC00-0CA0	4900	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-4BC00-0CA0	5300	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-4BC00-0AA0	5100	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-4BC00-0AA0	5400	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-4BC00-0CA0	5600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 504-4BC00-0CA0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 504-4BC00-0AA0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-4BC00-0AA0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-4BC00-0CA0	7000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 508-4BC00-0AA0	7300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-4BC00-0CA0	7600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 564-4BC00-0AA0	8500	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 564-4BC00-0CA0	8800	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 566-4BC00-0AA0	9000	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 566-4BC00-0CA0	9300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 568-4BC00-0AA0	9400	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 568-4BC00-0CA0	9800	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
6-pole																			
1NA1 404-6BC00-0AA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 404-6BC00-0CA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-6BC00-0AA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-6BC00-0CA0	4200	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-6BC00-0AA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-6BC00-0CA0	4400	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 454-6BC00-0AA0	4700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 454-6BC00-0CA0	4900	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-6BC00-0AA0	5100	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-6BC00-0CA0	5300	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-6BC00-0AA0	5600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-6BC00-0CA0	5800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 502-6BC00-0AA0	6200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 502-6BC00-0CA0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 504-6BC00-0CA0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 504-6BC00-0AA0	6500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-6BC00-0CA0	7200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-6BC00-0AA0	6900	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-6BC00-0AA0	7400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-6BC00-0CA0	7700	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 564-6BC00-0CA0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 566-6BC00-0CA0	9800	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 568-6BC00-0CA0	10400	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
8-pole																			
1NA1 404-8BC00-0AA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 404-8BC00-0CA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-8BC00-0AA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-8BC00-0CA0	4200	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 408-8BC00-0AA0	4200	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-8BC00-0CA0	4400	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 454-8BC00-0AA0	4700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 454-8BC00-0CA0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-8BC00-0AA0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-8BC00-0CA0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-8BC00-0AA0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-8BC00-0CA0	5700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 504-8BC00-0AA0	6500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 504-8BC00-0CA0	6700	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-8BC00-0AA0	6900	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-8BC00-0CA0	7200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-8BC00-0AA0	7400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-8BC00-0CA0	7700	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 564-8BC00-0CA0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 566-8BC00-0CA0	9800	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 568-8BC00-0CA0	10300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225

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Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z	
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
SIMOTICS HV C - 1NA1 IC416 690 V / 50 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NA1 404-4BC04-0AA0	3700	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 404-4BC04-0CA0	3900	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 406-4BC04-0AA0	3900	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 406-4BC04-0CA0	4100	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 408-4BC04-0AA0	4200	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 408-4BC04-0CA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 454-4BC04-0AA0	4900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 454-4BC04-0CA0	5100	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 456-4BC04-0CA0	5500	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 456-4BC04-0AA0	5300	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 458-4BC04-0AA0	5600	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 458-4BC04-0CA0	5800	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 504-4BC04-0CA0	6800	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 504-4BC04-0AA0	6600	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 506-4BC04-0AA0	7000	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 506-4BC04-0CA0	7200	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 508-4BC04-0AA0	7500	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 508-4BC04-0CA0	7800	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 564-4BC04-0AA0	8700	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 564-4BC04-0CA0	9000	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 566-4BC04-0AA0	9200	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 566-4BC04-0CA0	9500	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 568-4BC04-0AA0	9600	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 568-4BC04-0CA0	10000	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
6-pole														
1NA1 404-6BC04-0AA0	3900	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 404-6BC04-0CA0	4000	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 406-6BC04-0AA0	4100	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 406-6BC04-0CA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 408-6BC04-0AA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 408-6BC04-0CA0	4500	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 454-6BC04-0AA0	4900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 454-6BC04-0CA0	5100	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 456-6BC04-0AA0	5200	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 456-6BC04-0CA0	5400	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 458-6BC04-0AA0	5700	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 458-6BC04-0CA0	5900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 502-6BC04-0AA0	6400	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 502-6BC04-0CA0	6600	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 504-6BC04-0CA0	6900	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 504-6BC04-0AA0	6700	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 506-6BC04-0CA0	7400	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 506-6BC04-0AA0	7100	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 508-6BC04-0AA0	7600	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 508-6BC04-0CA0	7900	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 564-6BC04-0CA0	9500	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
1NA1 566-6BC04-0CA0	10100	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
1NA1 568-6BC04-0CA0	10600	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
8-pole													
1NA1 404-8BC04-0AA0	3900	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 404-8BC04-0CA0	4000	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 406-8BC04-0AA0	4100	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 406-8BC04-0CA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 408-8BC04-0AA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 408-8BC04-0CA0	4500	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 454-8BC04-0AA0	4900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 454-8BC04-0CA0	5000	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 456-8BC04-0AA0	5200	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 456-8BC04-0CA0	5400	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 458-8BC04-0AA0	5700	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 458-8BC04-0CA0	5900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 504-8BC04-0AA0	6700	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 504-8BC04-0CA0	6900	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 506-8BC04-0AA0	7100	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 506-8BC04-0CA0	7300	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 508-8BC04-0AA0	7600	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 508-8BC04-0CA0	7900	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 564-8BC04-0CA0	9400	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
1NA1 566-8BC04-0CA0	10000	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
1NA1 568-8BC04-0CA0	10600	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16

SIMOTICS HV C - 1NA1 IC416 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - const torque drive																						
940	830	**1NA1 402-2BC10-0AA0**	3579	96.7	0,93	870	2508	3,20	10.0	3600	445	2374	95.9	0,92	155	2131	93.5	0,90	75	2020	89.3	0,90
930	820	**1NA1 402-2BC10-0CA0**	3580	96.6	0,93	870	2481	3,10	12.3	3600	440	2349	95.8	0,91	155	2108	93.4	0,90	70	1998	89.3	0,90
960	850	**1NA1 404-2BC10-0AA0**	3580	96.7	0,94	880	2561	3,70	11.0	3600	450	2424	95.9	0,93	160	2176	93.6	0,91	75	2062	89.6	0,92
950	840	**1NA1 404-2BC10-0CA0**	3581	96.6	0,94	880	2533	3,60	13.5	3600	450	2399	95.8	0,93	160	2153	93.5	0,91	75	2041	89.6	0,91
1010	890	**1NA1 406-2BC10-0AA0**	3580	96.7	0,95	920	2694	3,90	12.2	3600	475	2550	95.9	0,94	170	2289	93.6	0,92	80	2169	89.6	0,92
1000	880	**1NA1 406-2BC10-0CA0**	3582	96.7	0,94	920	2666	3,80	14.9	3600	470	2526	95.8	0,93	165	2267	93.5	0,92	80	2148	89.7	0,92
1170	1030	**1NA1 408-2BC10-0AA0**	3582	97.0	0,94	1080	3119	4,10	13.0	3600	550	2955	96.3	0,93	195	2652	94.3	0,91	90	2514	91.0	0,91
1150	1010	**1NA1 408-2BC10-0CA0**	3584	96.9	0,94	1060	3064	4,10	15.9	3600	545	2903	96.2	0,93	195	2606	94.3	0,91	90	2470	91.1	0,91
1260	1110	**1NA1 454-2BC10-0CA0**	3584	97.0	0,94	1160	3357	2,80	19.4	3600	595	3178	96.4	0,93	210	2852	94.3	0,92	100	2703	90.7	0,92
1300	1150	**1NA1 456-2BC10-0CA0**	3582	97.0	0,94	1200	3466	2,60	21.3	3600	615	3281	96.3	0,94	220	2944	93.9	0,93	100	2791	90.0	0,93
1550	1370	**1NA1 458-2BC10-0CA0**	3586	97.4	0,95	1400	4128	3,30	23.0	3600	730	3910	96.7	0,94	260	3509	95.0	0,92	120	3326	92.1	0,92
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - const torque drive																						
1000	880	**1NA1 404-4BC10-0AA0**	1790	96.6	0,90	960	5335	3,00	15.6	2600	470	5051	95.0	0,89	165	4533	92.4	0,88	80	4297	88.1	0,89
970	860	**1NA1 404-4BC10-0CA0**	1789	96.6	0,89	940	5178	2,70	19.8	2600	455	4904	95.2	0,88	160	4401	92.5	0,88	75	4171	88.0	0,88
1060	930	**1NA1 406-4BC10-0AA0**	1791	96.7	0,90	1020	5652	3,40	17.4	2600	500	5350	95.1	0,89	180	4802	92.8	0,88	85	4551	89.0	0,88
1060	930	**1NA1 406-4BC10-0CA0**	1790	96.7	0,89	1040	5655	3,00	22.0	2600	500	5354	95.4	0,88	175	4805	92.9	0,88	80	4554	88.9	0,88
1160	1020	**1NA1 408-4BC10-0AA0**	1792	96.8	0,90	1120	6181	3,70	19.7	2600	545	5853	95.2	0,89	195	5253	93.1	0,88	90	4979	89.7	0,88
1160	1020	**1NA1 408-4BC10-0CA0**	1791	96.9	0,90	1120	6185	3,20	24.9	2600	545	5857	95.5	0,89	195	5256	93.3	0,88	90	4982	89.7	0,88
1370	1210	**1NA1 454-4BC10-0AA0**	1791	96.9	0,90	1320	7305	3,10	26.4	2400	645	6916	95.7	0,89	230	6206	93.3	0,87	105	5882	89.6	0,88
1350	1190	**1NA1 454-4BC10-0CA0**	1791	96.9	0,89	1300	7198	2,80	33.9	2400	635	6814	95.8	0,88	225	6116	93.4	0,87	105	5796	89.7	0,87
1450	1280	**1NA1 456-4BC10-0CA0**	1792	97.1	0,90	1380	7727	2,90	39.0	2400	685	7316	96.0	0,89	245	6566	93.9	0,87	115	6223	90.6	0,87
1510	1330	**1NA1 456-4BC10-0AA0**	1791	97.1	0,91	1420	8051	3,20	30.4	2400	710	7622	95.9	0,90	255	6840	93.7	0,88	120	6483	90.3	0,88
1650	1450	**1NA1 458-4BC10-0CA0**	1792	97.2	0,89	1600	8793	2,90	42.8	2400	780	8325	96.2	0,88	275	7471	94.2	0,87	130	7081	91.1	0,87
1670	1470	**1NA1 458-4BC10-0AA0**	1792	97.2	0,90	1600	8899	3,20	33.5	2400	790	8427	96.1	0,89	280	7563	94.1	0,88	130	7168	91.0	0,88
1550	1370	**1NA1 504-4BC10-0AA0**	1790	96.6	0,89	1500	8269	2,70	32.5	2200	730	7832	95.3	0,89	260	7029	92.8	0,88	120	6662	88.8	0,88
1550	1370	**1NA1 504-4BC10-0CA0**	1791	96.6	0,87	1540	8264	2,20	42.4	2200	730	7826	95.5	0,87	260	7023	93.0	0,87	120	6657	89.0	0,87
1800	1590	**1NA1 506-4BC10-0AA0**	1792	96.8	0,89	1740	9592	3,10	37.1	2200	850	9086	95.6	0,88	300	8154	93.4	0,87	140	7728	90.1	0,87
1800	1590	**1NA1 506-4BC10-0CA0**	1792	96.9	0,87	1780	9592	2,40	48.0	2200	850	9084	95.8	0,87	300	8152	93.7	0,86	140	7727	90.4	0,86
1820	1600	**1NA1 508-4BC10-0AA0**	1792	96.8	0,90	1740	9699	3,30	42.4	2200	860	9182	95.5	0,89	305	8240	93.5	0,88	140	7810	90.3	0,88
1820	1600	**1NA1 508-4BC10-0CA0**	1793	96.9	0,89	1760	9693	2,60	54.6	2200	860	9178	95.8	0,88	305	8237	93.8	0,87	145	7807	90.6	0,87
2160	1900	**1NA1 564-4BC10-0AA0**	1793	97.1	0,88	2100	11504	2,70	59.9	2000	1020	10898	96.0	0,88	365	9780	93.9	0,87	170	9270	90.6	0,87
2150	1900	**1NA1 564-4BC10-0CA0**	1793	97.1	0,88	2100	11451	2,30	79.4	2000	1015	10849	96.1	0,87	360	9736	94.0	0,86	170	9228	90.5	0,87
2210	1950	**1NA1 566-4BC10-0AA0**	1793	97.1	0,89	2150	11770	2,70	66.7	2000	1045	11143	96.1	0,89	370	10000	93.9	0,88	175	9478	90.5	0,88
2220	1960	**1NA1 566-4BC10-0CA0**	1792	97.2	0,89	2150	11830	2,30	88.0	2000	1050	11203	96.1	0,88	375	10054	93.9	0,88	175	9529	90.4	0,88

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SIMOTICS HV C - 1NA1 IC416 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2450	2160	**1NA1 568-4BC10-0AA0**	1795	97.2	0,90	2350	13034	3,60	73.4	2000	1155	12343	96.0	0,88	415	11077	94.1	0,87	195	10499	91.1	0,87
2450	2160	**1NA1 568-4BC10-0CA0**	1795	97.3	0,90	2350	13034	3,10	96.7	2000	1155	12343	96.1	0,88	415	11077	94.2	0,87	195	10499	91.2	0,87
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - const torque drive																						
850	750	**1NA1 404-6BC10-0AA0**	1194	96.3	0,88	840	6798	2,70	25.8	2400	400	6442	94.3	0,88	140	5781	91.0	0,87	65	5479	86.0	0,88
850	750	**1NA1 404-6BC10-0CA0**	1192	96.3	0,87	850	6809	2,30	33.2	2400	400	6448	94.7	0,87	140	5787	91.1	0,87	65	5485	85.7	0,88
900	790	**1NA1 406-6BC10-0AA0**	1194	96.4	0,89	880	7198	3,10	29.6	2400	425	6813	94.5	0,88	150	6115	91.6	0,87	70	5796	87.2	0,87
900	790	**1NA1 406-6BC10-0CA0**	1193	96.5	0,88	890	7204	2,70	38.0	2400	425	6820	95.0	0,87	150	6121	91.9	0,87	70	5801	87.3	0,87
930	820	**1NA1 408-6BC10-0AA0**	1195	96.4	0,87	930	7432	4,10	33.5	2400	440	7035	94.2	0,85	155	6313	91.6	0,83	75	5984	88.0	0,83
970	850	**1NA1 408-6BC10-0CA0**	1195	96.6	0,87	970	7751	3,30	41.9	2400	460	7340	95.1	0,85	165	6587	92.5	0,84	75	6243	88.7	0,84
1120	990	**1NA1 454-6BC10-0AA0**	1194	96.5	0,86	1120	8957	2,90	39.5	2200	530	8486	94.7	0,84	185	7615	91.8	0,84	85	7218	87.4	0,84
1170	1030	**1NA1 454-6BC10-0CA0**	1192	96.6	0,85	1200	9373	2,50	49.1	2200	550	8878	95.0	0,85	195	7968	91.9	0,85	90	7552	87.1	0,85
1200	1060	**1NA1 456-6BC10-0AA0**	1194	96.7	0,86	1200	9597	3,10	45.8	2200	565	9087	95.0	0,85	200	8155	92.5	0,84	95	7729	88.6	0,84
1250	1100	**1NA1 456-6BC10-0CA0**	1193	96.8	0,86	1260	10006	2,60	56.8	2200	590	9473	95.3	0,85	210	8501	92.7	0,85	95	8057	88.5	0,85
1270	1120	**1NA1 458-6BC10-0AA0**	1194	96.8	0,87	1260	10157	3,10	54.3	2200	600	9616	95.1	0,86	215	8629	92.7	0,86	100	8179	89.0	0,86
1300	1150	**1NA1 458-6BC10-0CA0**	1194	96.9	0,87	1300	10397	2,70	67.0	2200	615	9849	95.4	0,86	215	8839	92.9	0,86	100	8378	89.0	0,86
1460	1290	**1NA1 502-6BC10-0AA0**	1191	96.6	0,83	1520	11706	1,90	52.8	2100	685	11084	95.2	0,84	245	9947	91.9	0,84	110	9428	87.0	0,85
1450	1280	**1NA1 502-6BC10-0CA0**	1193	96.9	0,86	1460	11606	1,80	67.5	2100	685	10996	95.7	0,86	245	9868	93.0	0,87	115	9353	88.9	0,87
1610	1420	**1NA1 504-6BC10-0AA0**	1192	96.8	0,84	1660	12898	2,30	59.7	2100	760	12208	95.4	0,84	270	10956	92.6	0,85	125	10384	88.4	0,85
1690	1490	**1NA1 504-6BC10-0CA0**	1194	97.0	0,86	1700	13516	2,00	76.1	2100	795	12803	95.9	0,86	285	11490	93.4	0,87	130	10890	89.6	0,87
1700	1500	**1NA1 506-6BC10-0AA0**	1192	96.8	0,86	1700	13619	2,30	67.3	2100	800	12890	95.3	0,86	285	11568	92.5	0,86	130	10964	88.2	0,87
1760	1550	**1NA1 506-6BC10-0CA0**	1194	97.0	0,87	1740	14076	2,00	85.6	2100	830	13331	95.8	0,87	295	11964	93.3	0,88	135	11339	89.5	0,88
1950	1720	**1NA1 508-6BC10-0AA0**	1193	97.0	0,86	1960	15609	2,60	76.4	2100	920	14781	95.4	0,85	325	13266	93.1	0,86	150	12573	89.5	0,86
2050	1810	**1NA1 508-6BC10-0CA0**	1195	97.2	0,87	2050	16382	2,30	96.7	2100	965	15515	96.0	0,87	345	13924	93.9	0,87	160	13197	90.7	0,87
2400	2110	**1NA1 564-6BC10-0CA0**	1195	97.4	0,87	2350	19179	2,50	136.7	2000	1130	18162	96.0	0,88	405	16299	94.0	0,88	190	15448	90.8	0,88
2460	2170	**1NA1 566-6BC10-0CA0**	1195	97.4	0,88	2400	19658	2,40	151.9	2000	1160	18620	96.0	0,88	410	16710	93.9	0,89	190	15838	90.6	0,89
2610	2300	**1NA1 568-6BC10-0CA0**	1195	97.4	0,88	2550	20857	2,70	167.0	2000	1230	19741	96.0	0,88	440	17717	93.9	0,88	205	16792	90.8	0,88
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - const torque drive																						
650	570	**1NA1 404-8BC10-0AA0**	892	95.9	0,84	680	6959	2,50	26.7	2400	305	6591	93.1	0,84	110	5915	88.4	0,83	50	5606	81.4	0,84
630	560	**1NA1 404-8BC10-0CA0**	891	95.8	0,82	670	6752	2,10	32.8	2400	295	6395	93.1	0,82	105	5739	88.1	0,81	45	5440	80.5	0,82
690	610	**1NA1 406-8BC10-0AA0**	894	96.0	0,85	710	7370	2,80	30.6	2400	325	6985	93.2	0,83	115	6268	88.9	0,82	55	5941	82.6	0,83
690	610	**1NA1 406-8BC10-0CA0**	892	96.0	0,83	720	7387	2,40	37.6	2400	325	6996	93.4	0,82	115	6279	88.8	0,81	50	5951	82.0	0,82
730	640	**1NA1 408-8BC10-0AA0**	894	96.2	0,85	750	7798	2,90	33.8	2400	345	7388	93.5	0,83	120	6630	89.5	0,82	55	6284	83.7	0,82
720	640	**1NA1 408-8BC10-0CA0**	893	96.2	0,83	750	7699	2,50	41.5	2400	340	7297	93.7	0,82	120	6549	89.5	0,81	55	6207	83.3	0,82
900	790	**1NA1 454-8BC10-0AA0**	892	95.9	0,80	980	9635	1,90	40.0	2200	425	9130	93.5	0,80	150	8194	88.8	0,81	70	7766	81.8	0,83
870	770	**1NA1 454-8BC10-0CA0**	890	95.9	0,81	940	9335	2,10	48.8	2200	410	8840	93.5	0,80	145	7933	88.4	0,81	65	7519	80.9	0,82

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SIMOTICS HV C - 1NA1 IC416 690 V / 60 Hz B3 (IM 1001) - VSD const torque

Rated power IEC		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1050	930	**1NA1 456-8BC10-0CA0**	892	96.3	0,80	1140	11241	2,50	56.4	2200	495	10647	94.1	0,79	175	9555	90.2	0,79	80	9056	84.2	0,80
1050	930	**1NA1 456-8BC10-0AA0**	894	96.3	0,80	1140	11216	2,50	46.4	2200	495	10631	94.0	0,79	175	9541	90.2	0,79	80	9043	84.7	0,79
1100	970	**1NA1 458-8BC10-0AA0**	894	96.4	0,81	1180	11750	2,60	54.9	2200	520	11131	94.0	0,80	185	9989	90.4	0,80	85	9468	85.3	0,81
1100	970	**1NA1 458-8BC10-0CA0**	893	96.4	0,81	1180	11763	2,70	66.6	2200	520	11144	94.1	0,81	185	10001	90.4	0,81	85	9479	84.8	0,81
1160	1020	**1NA1 504-8BC10-0AA0**	892	96.0	0,81	1240	12418	1,70	58.9	2100	545	11759	94.4	0,80	190	10553	90.8	0,80	90	10002	85.1	0,81
1200	1060	**1NA1 504-8BC10-0CA0**	893	96.1	0,85	1220	12832	1,90	75.7	2100	565	12158	94.5	0,84	200	10911	91.1	0,84	90	10342	85.9	0,85
1250	1100	**1NA1 506-8BC10-0AA0**	893	96.1	0,81	1340	13367	1,70	66.4	2100	590	12667	94.5	0,81	205	11368	91.0	0,81	95	10775	85.5	0,82
1260	1110	**1NA1 506-8BC10-0CA0**	894	96.1	0,85	1300	13459	2,00	85.2	2100	595	12757	94.5	0,85	210	11449	91.4	0,84	95	10851	86.4	0,85
1400	1230	**1NA1 508-8BC10-0CA0**	895	96.2	0,84	1440	14937	2,60	96.4	2100	660	14137	94.7	0,82	235	12687	92.1	0,81	110	12025	88.2	0,81
1400	1230	**1NA1 508-8BC10-0AA0**	894	96.4	0,82	1480	14954	2,10	75.3	2100	660	14162	94.9	0,81	235	12709	91.9	0,80	110	12046	87.4	0,80
1820	1600	**1NA1 564-8BC10-0CA0**	893	96.7	0,84	1880	19462	1,70	136.4	2000	855	18428	95.2	0,85	300	16538	91.9	0,86	140	15675	87.0	0,87
1920	1690	**1NA1 566-8BC10-0CA0**	894	96.8	0,85	1960	20509	1,90	151.7	2000	905	19427	95.3	0,85	320	17435	92.4	0,86	150	16525	88.2	0,86
2060	1820	**1NA1 568-8BC10-0CA0**	894	97.0	0,85	2100	22004	2,10	167.0	2000	970	20833	95.6	0,85	345	18697	92.9	0,86	160	17721	88.9	0,86

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2BC10-0AA0	3500	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 402-2BC10-0CA0	3600	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 404-2BC10-0AA0	3600	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 404-2BC10-0CA0	3700	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 406-2BC10-0AA0	3800	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 406-2BC10-0CA0	3900	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 408-2BC10-0AA0	3900	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 408-2BC10-0CA0	4000	750	520	840	970	1290	356	626	1120	254	85	130	400	944	365	1158	971	2642	160
1NA1 454-2BC10-0CA0	4800	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2895	180
1NA1 456-2BC10-0CA0	5000	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2895	180
1NA1 458-2BC10-0CA0	5200	850	564	884	1079	1399	356	670	1250	254	95	130	450	1068	451	1282	1057	2895	180
4-pole																			
1NA1 404-4BC10-0AA0	3700	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 404-4BC10-0CA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-4BC10-0AA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-4BC10-0CA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-4BC10-0AA0	4100	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-4BC10-0CA0	4200	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 454-4BC10-0AA0	4700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 454-4BC10-0CA0	4900	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-4BC10-0CA0	5300	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-4BC10-0AA0	5100	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-4BC10-0CA0	5600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-4BC10-0AA0	5400	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 504-4BC10-0AA0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 504-4BC10-0CA0	6600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-4BC10-0AA0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-4BC10-0CA0	7000	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-4BC10-0AA0	7300	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-4BC10-0CA0	7500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 564-4BC10-0AA0	8400	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 564-4BC10-0CA0	8700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 566-4BC10-0AA0	8900	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 566-4BC10-0CA0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 568-4BC10-0AA0	9300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 568-4BC10-0CA0	9700	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
6-pole																			
1NA1 404-6BC10-0AA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 404-6BC10-0CA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-6BC10-0AA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-6BC10-0CA0	4200	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-6BC10-0AA0	4300	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-6BC10-0CA0	4400	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 454-6BC10-0AA0	4700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 454-6BC10-0CA0	4900	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-6BC10-0AA0	5100	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-6BC10-0CA0	5300	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-6BC10-0AA0	5600	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-6BC10-0CA0	5800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 502-6BC10-0AA0	6200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 502-6BC10-0CA0	6400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 504-6BC10-0AA0	6500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 504-6BC10-0CA0	6800	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-6BC10-0AA0	6900	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-6BC10-0CA0	7200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-6BC10-0AA0	7400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-6BC10-0CA0	7700	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 564-6BC10-0CA0	9300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 566-6BC10-0CA0	9800	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 568-6BC10-0CA0	10300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
8-pole																			
1NA1 404-8BC10-0AA0	3800	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 404-8BC10-0CA0	3900	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-8BC10-0AA0	4000	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 406-8BC10-0CA0	4200	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-8BC10-0AA0	4200	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 408-8BC10-0CA0	4400	750	520	840	970	1290	356	626	1120	254	110	165	400	944	365	1158	971	2677	160
1NA1 454-8BC10-0AA0	4700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 454-8BC10-0CA0	4800	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-8BC10-0CA0	5200	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 456-8BC10-0AA0	5000	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-8BC10-0AA0	5500	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180
1NA1 458-8BC10-0CA0	5700	850	564	884	1079	1399	356	670	1250	280	120	165	450	1068	451	1282	1057	2956	180

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 504-8BC10-0AA0	6500	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 504-8BC10-0CA0	6700	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-8BC10-0AA0	6900	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 506-8BC10-0CA0	7200	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-8BC10-0CA0	7600	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 508-8BC10-0AA0	7400	950	610	1029	1175	1594	371	885	1320	315	140	200	500	1343	522	1508	1194	3166	200
1NA1 564-8BC10-0CA0	9200	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 566-8BC10-0CA0	9800	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225
1NA1 568-8BC10-0CA0	10300	1060	670	1089	1305	1724	371	945	1400	335	160	240	560	1470	627	1635	1300	3422	225

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Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z	
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
SIMOTICS HV C - 1NA1 IC416 690 V / 60 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NA1 404-4BC14-0AA0	3700	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 404-4BC14-0CA0	3900	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 406-4BC14-0AA0	3900	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 406-4BC14-0CA0	4100	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 408-4BC14-0AA0	4200	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 408-4BC14-0CA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 454-4BC14-0AA0	4900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 454-4BC14-0CA0	5100	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 456-4BC14-0CA0	5500	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 456-4BC14-0AA0	5300	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 458-4BC14-0CA0	5800	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 458-4BC14-0AA0	5600	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 504-4BC14-0AA0	6500	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 504-4BC14-0CA0	6800	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 506-4BC14-0AA0	7000	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 506-4BC14-0CA0	7200	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 508-4BC14-0AA0	7500	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 508-4BC14-0CA0	7700	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16	
1NA1 564-4BC14-0AA0	8600	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 564-4BC14-0CA0	9000	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 566-4BC14-0AA0	9100	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 566-4BC14-0CA0	9500	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 568-4BC14-0AA0	9500	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
1NA1 568-4BC14-0CA0	9900	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16	
6-pole														
1NA1 404-6BC14-0AA0	3900	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 404-6BC14-0CA0	4000	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 406-6BC14-0AA0	4100	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 406-6BC14-0CA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 408-6BC14-0AA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 408-6BC14-0CA0	4500	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8	
1NA1 454-6BC14-0AA0	4900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 454-6BC14-0CA0	5100	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 456-6BC14-0AA0	5300	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 456-6BC14-0CA0	5400	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	
1NA1 458-6BC14-0AA0	5700	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8	

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 458-6BC14-0CA0	5900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 502-6BC14-0AA0	6400	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 502-6BC14-0CA0	6600	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 504-6BC14-0AA0	6700	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 504-6BC14-0CA0	7000	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 506-6BC14-0AA0	7100	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 506-6BC14-0CA0	7400	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 508-6BC14-0AA0	7600	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 508-6BC14-0CA0	7900	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 564-6BC14-0CA0	9500	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
1NA1 566-6BC14-0CA0	10000	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
1NA1 568-6BC14-0CA0	10500	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
8-pole													
1NA1 404-8BC14-0AA0	3900	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 404-8BC14-0CA0	4000	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 406-8BC14-0AA0	4100	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 406-8BC14-0CA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 408-8BC14-0AA0	4300	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 408-8BC14-0CA0	4500	1020	356	110	1044	1258	2677	2880	940	880	1000	22	8
1NA1 454-8BC14-0AA0	4900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 454-8BC14-0CA0	5000	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 456-8BC14-0CA0	5400	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 456-8BC14-0AA0	5200	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 458-8BC14-0AA0	5700	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 458-8BC14-0CA0	5900	1139	356	120	1193	1407	2956	3164	1080	1000	1150	26	8
1NA1 504-8BC14-0AA0	6700	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 504-8BC14-0CA0	6900	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 506-8BC14-0AA0	7100	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 506-8BC14-0CA0	7400	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 508-8BC14-0CA0	7800	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 508-8BC14-0AA0	7600	1235	371	140	1468	1633	3166	3374	1180	1120	1250	26	16
1NA1 564-8BC14-0CA0	9400	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
1NA1 566-8BC14-0CA0	10000	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16
1NA1 568-8BC14-0CA0	10600	1370	371	160	1610	1775	3422	3630	1320	1250	1400	26	16

SIMOTICS HV C - 1NA1 IC416 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - const torque drive																						
	1000	**1NA1 454-2BR40-0AA0**	2985	97.0	0,90	158	3199	2,80	14.2	3600	470	3029	96.5	0,90	165	2719	94.0	0,89	80	2577	91.3	0,88
	960	**1NA1 454-2BR40-0CA0**	2983	96.8	0,90	152	3073	2,50	18.4	3600	450	2912	96.3	0,90	160	2613	93.6	0,89	75	2477	90.7	0,88
	1110	**1NA1 456-2BR40-0AA0**	2986	97.2	0,91	174	3550	2,90	15.7	3600	525	3361	96.6	0,91	185	3017	94.2	0,89	85	2859	91.6	0,88
	1070	**1NA1 456-2BR40-0CA0**	2983	96.9	0,91	168	3425	2,50	20.2	3600	505	3244	96.4	0,90	180	2911	93.8	0,89	85	2759	91.0	0,88
	1250	**1NA1 458-2BR40-0AA0**	2987	97.3	0,92	194	3996	3,20	17.0	3600	590	3783	96.7	0,91	210	3395	94.3	0,90	100	3218	91.7	0,88
	1200	**1NA1 458-2BR40-0CA0**	2984	97.1	0,91	188	3840	2,70	21.9	3600	565	3638	96.5	0,90	200	3265	94.0	0,89	95	3094	91.2	0,88
	1350	**1NA1 504-2BR40-0CA0**	2987	97.1	0,90	215	4316	2,70	29.7	3000	635	4087	96.8	0,90	225	3668	94.8	0,89	105	3477	92.5	0,87
	1500	**1NA1 506-2BR40-0CA0**	2987	97.2	0,90	240	4795	2,70	33.3	3000	705	4541	97.0	0,90	250	4076	95.0	0,89	120	3863	92.8	0,88
	1670	**1NA1 508-2BR40-0CA0**	2989	97.3	0,91	260	5335	3,20	36.2	3000	790	5051	97.2	0,91	280	4533	95.3	0,89	130	4297	93.2	0,87
	2000	**1NA1 566-2BR40-0CA0**	2990	97.4	0,91	315	6387	2,60	55.3	3000	945	6050	97.2	0,91	335	5429	95.7	0,91	160	5146	93.8	0,90
	2250	**1NA1 568-2BR40-0CA0**	2990	97.5	0,92	350	7186	2,70	60.0	3000	1060	6804	97.4	0,91	380	6106	95.8	0,91	180	5787	94.1	0,90
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - const torque drive																						
	1000	**1NA1 454-4BR40-0AA0**	1493	96.7	0,85	168	6396	3,20	21.5	2400	470	6060	96.2	0,84	165	5439	93.2	0,82	80	5155	89.4	0,75
	1000	**1NA1 454-4BR40-0CA0**	1492	96.7	0,84	170	6400	2,60	27.6	2400	470	6062	96.2	0,84	165	5440	93.4	0,82	80	5156	90.0	0,77
	1100	**1NA1 456-4BR40-0AA0**	1492	96.8	0,86	184	7040	3,10	24.8	2400	520	6667	96.3	0,86	185	5983	93.4	0,83	85	5671	89.9	0,78
	1100	**1NA1 456-4BR40-0CA0**	1492	96.9	0,85	186	7040	2,60	31.7	2400	520	6669	96.3	0,85	185	5985	93.6	0,83	85	5672	90.4	0,79
	1200	**1NA1 458-4BR40-0AA0**	1493	96.9	0,85	200	7675	3,60	27.2	2400	565	7266	96.5	0,84	200	6521	93.9	0,81	95	6180	90.3	0,73
	1210	**1NA1 458-4BR40-0CA0**	1493	97.0	0,85	205	7739	2,90	34.8	2400	570	7328	96.5	0,84	205	6577	94.1	0,81	95	6233	91.0	0,76
	1260	**1NA1 504-4BR40-0AA0**	1492	96.8	0,87	210	8064	2,80	32.5	2200	595	7640	96.4	0,87	210	6856	94.0	0,85	100	6498	91.0	0,82
	1260	**1NA1 504-4BR40-0CA0**	1492	96.9	0,86	210	8064	2,20	42.4	2200	595	7637	96.5	0,85	210	6854	94.2	0,85	100	6496	91.5	0,82
	1410	**1NA1 506-4BR40-0AA0**	1493	96.9	0,88	230	9018	3,00	37.1	2200	665	8544	96.6	0,88	235	7668	94.2	0,86	110	7268	91.3	0,81
	1410	**1NA1 506-4BR40-0CA0**	1493	97.0	0,87	230	9018	2,40	48.0	2200	665	8547	96.6	0,86	235	7671	94.4	0,85	110	7270	91.9	0,82
	1450	**1NA1 508-4BR40-0AA0**	1494	97.0	0,88	235	9268	3,70	42.4	2200	685	8776	96.8	0,87	245	7876	94.6	0,84	115	7465	91.8	0,78
	1470	**1NA1 508-4BR40-0CA0**	1494	97.0	0,87	240	9396	2,90	54.6	2200	695	8896	96.9	0,86	245	7984	94.9	0,84	115	7567	92.4	0,80
	1750	**1NA1 562-4BR40-0CA0**	1493	97.3	0,86	290	11193	2,20	72.5	2000	825	10603	97.0	0,85	295	9516	94.9	0,84	140	9019	92.5	0,81
	1750	**1NA1 562-4BR40-0AA0**	1494	97.2	0,87	285	11186	2,60	54.5	2000	825	10598	97.0	0,86	295	9511	94.9	0,84	140	9014	92.3	0,80
	1920	**1NA1 564-4BR40-0AA0**	1494	97.4	0,87	315	12272	2,80	59.9	2000	905	11621	97.1	0,87	325	10429	95.0	0,85	150	9885	92.5	0,79
	2050	**1NA1 564-4BR40-0CA0**	1494	97.5	0,87	335	13103	2,30	79.4	2000	965	12419	97.1	0,86	345	11145	94.9	0,85	160	10563	92.6	0,82
	2150	**1NA1 566-4BR40-0AA0**	1494	97.5	0,88	350	13742	2,90	66.7	2000	1015	13012	97.2	0,87	360	11677	95.0	0,85	170	11068	92.5	0,80
	2150	**1NA1 566-4BR40-0CA0**	1494	97.6	0,87	350	13742	2,50	88.0	2000	1015	13015	97.2	0,87	360	11680	95.1	0,85	170	11070	92.9	0,82
	2260	**1NA1 568-4BR40-0AA0**	1495	97.5	0,88	365	14436	3,20	73.4	2000	1065	13670	97.3	0,87	380	12269	95.2	0,85	180	11628	92.7	0,79
	2300	**1NA1 568-4BR40-0CA0**	1495	97.6	0,88	370	14691	2,70	96.7	2000	1085	13917	97.3	0,87	385	12489	95.4	0,85	180	11837	93.2	0,81
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - const torque drive																						
	720	**1NA1 454-6BR40-0AA0**	994	96.3	0,80	130	6917	2,30	31.8	2200	340	6553	95.5	0,80	120	5881	92.0	0,79	55	5574	87.7	0,74

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SIMOTICS HV C - 1NA1 IC416 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	770	**1NA1 454-6BR40-0CA0**	994	96.4	0,83	134	7397	2,40	41.0	2200	365	7013	95.5	0,83	130	6294	92.0	0,82	60	5965	87.8	0,77
	820	**1NA1 456-6BR40-0AA0**	994	96.4	0,81	146	7878	2,30	36.9	2200	385	7461	95.6	0,81	135	6696	92.4	0,80	65	6346	88.3	0,75
	850	**1NA1 456-6BR40-0CA0**	994	96.5	0,84	146	8166	2,50	47.3	2200	400	7737	95.6	0,84	140	6944	92.4	0,83	65	6581	88.5	0,78
	920	**1NA1 458-6BR40-0AA0**	994	96.5	0,82	162	8838	2,40	43.6	2200	435	8368	95.8	0,82	155	7510	92.8	0,80	70	7118	89.1	0,75
	950	**1NA1 458-6BR40-0CA0**	994	96.6	0,84	162	9127	2,60	55.7	2200	450	8643	95.9	0,84	160	7756	92.9	0,83	75	7351	89.3	0,78
	970	**1NA1 502-6BR40-0AA0**	994	96.5	0,84	166	9319	2,50	52.8	2100	455	8835	95.6	0,84	160	7929	92.0	0,84	75	7515	87.7	0,81
	1020	**1NA1 502-6BR40-0CA0**	995	96.7	0,86	170	9789	2,30	67.5	2100	480	9274	95.8	0,87	170	8323	92.7	0,87	80	7888	88.8	0,84
	1100	**1NA1 504-6BR40-0AA0**	993	96.6	0,85	186	10578	2,30	59.7	2100	520	10020	95.6	0,85	185	8992	92.2	0,86	85	8523	88.3	0,84
	1150	**1NA1 504-6BR40-0CA0**	995	96.8	0,87	190	11037	2,10	76.1	2100	540	10462	96.0	0,87	190	9390	92.9	0,88	90	8899	89.4	0,86
	1250	**1NA1 506-6BR40-0AA0**	994	96.8	0,85	210	12009	2,50	67.3	2100	590	11379	95.9	0,85	210	10212	92.7	0,85	95	9679	89.0	0,82
	1300	**1NA1 506-6BR40-0CA0**	995	97.0	0,87	215	12476	2,20	85.6	2100	615	11819	96.3	0,87	220	10607	93.5	0,87	100	10053	90.3	0,84
	1400	**1NA1 508-6BR40-0AA0**	994	96.9	0,86	235	13450	2,60	76.4	2100	660	12745	96.1	0,86	235	11438	92.9	0,86	110	10841	89.3	0,82
	1450	**1NA1 508-6BR40-0CA0**	995	97.1	0,87	240	13916	2,40	96.7	2100	685	13177	96.4	0,87	245	11825	93.7	0,87	115	11208	90.6	0,84
	1800	**1NA1 564-6BR40-0CA0**	995	97.3	0,87	295	17275	2,40	136.7	2000	850	16367	96.8	0,88	300	14689	94.1	0,88	140	13922	91.3	0,86
	1950	**1NA1 566-6BR40-0CA0**	995	97.3	0,87	320	18715	2,50	151.9	2000	920	17723	96.9	0,88	325	15905	94.5	0,88	155	15075	91.7	0,85
	2120	**1NA1 568-6BR40-0CA0**	996	97.4	0,87	345	20326	2,80	167.0	2000	1000	19255	97.1	0,88	355	17280	94.7	0,88	165	16378	92.0	0,84
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - const torque drive																						
	650	**1NA1 454-8BR40-0AA0**	743	95.9	0,78	120	8354	2,00	32.0	2200	305	7912	94.4	0,78	105	7101	89.4	0,78	50	6730	83.6	0,75
	630	**1NA1 454-8BR40-0CA0**	744	96.0	0,80	114	8086	2,10	41.1	2200	295	7662	94.6	0,80	105	6877	89.9	0,80	50	6518	84.3	0,75
	680	**1NA1 456-8BR40-0AA0**	744	96.0	0,79	124	8728	2,30	37.1	2200	320	8269	94.8	0,79	115	7421	90.1	0,78	50	7034	84.6	0,74
	680	**1NA1 456-8BR40-0CA0**	745	96.1	0,80	122	8716	2,30	47.4	2200	320	8263	94.9	0,80	115	7416	90.4	0,79	55	7029	85.1	0,75
	710	**1NA1 458-8BR40-0AA0**	745	96.2	0,79	130	9101	2,40	43.9	2200	335	8629	95.2	0,79	120	7744	91.2	0,78	55	7340	86.1	0,72
	710	**1NA1 458-8BR40-0CA0**	745	96.2	0,80	128	9101	2,50	55.9	2200	335	8618	95.3	0,80	120	7734	91.3	0,78	55	7331	86.5	0,73
	800	**1NA1 504-8BR40-0AA0**	744	96.0	0,80	144	10268	2,10	58.9	2100	375	9721	94.8	0,80	135	8724	91.2	0,80	60	8268	86.7	0,76
	810	**1NA1 504-8BR40-0CA0**	745	96.0	0,85	138	10382	2,40	75.7	2100	380	9834	95.0	0,84	135	8826	91.6	0,83	65	8365	87.3	0,79
	850	**1NA1 506-8BR40-0AA0**	745	96.1	0,80	154	10895	2,40	66.4	2100	400	10314	95.1	0,80	140	9256	91.8	0,78	65	8773	87.3	0,73
	850	**1NA1 506-8BR40-0CA0**	746	96.0	0,84	146	10881	2,80	85.2	2100	400	10304	95.2	0,83	140	9248	92.1	0,81	65	8765	87.8	0,75
	900	**1NA1 508-8BR40-0AA0**	746	96.1	0,81	160	11521	2,60	75.3	2100	425	10920	95.3	0,80	150	9800	92.2	0,78	70	9288	87.9	0,72
	900	**1NA1 508-8BR40-0CA0**	746	96.0	0,83	156	11521	3,00	96.4	2100	425	10904	95.4	0,82	150	9786	92.5	0,80	70	9275	88.4	0,74
	1200	**1NA1 564-8BR40-0CA0**	746	96.8	0,84	205	15361	2,50	136.4	2000	565	14553	96.2	0,85	200	13061	93.2	0,84	95	12379	89.6	0,79
	1350	**1NA1 566-8BR40-0CA0**	746	96.9	0,84	230	17281	2,60	151.7	2000	635	16366	96.4	0,84	225	14687	93.3	0,83	105	13921	89.8	0,78
	1450	**1NA1 568-8BR40-0CA0**	746	96.9	0,84	245	18561	2,60	167.0	2000	685	17580	96.4	0,85	240	15777	93.6	0,84	115	14953	90.3	0,79

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2BR40-0AA0	4700	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2895	180
1NA1 454-2BR40-0CA0	4900	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2895	180
1NA1 456-2BR40-0AA0	5000	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2895	180
1NA1 456-2BR40-0CA0	5100	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2895	180
1NA1 458-2BR40-0AA0	5200	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2895	180
1NA1 458-2BR40-0CA0	5300	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2895	180
1NA1 504-2BR40-0CA0	6400	950	610	894	1175	1459	489	763	1320	280	110	165	500	1221	403	1352	1095	3096	200
1NA1 506-2BR40-0CA0	6900	950	610	894	1175	1459	489	763	1320	280	110	165	500	1221	403	1352	1095	3096	200
1NA1 508-2BR40-0CA0	7200	950	610	894	1175	1459	489	763	1320	280	110	165	500	1221	403	1352	1095	3096	200
1NA1 566-2BR40-0CA0	9100	1060	670	954	1305	1589	489	823	1400	290	120	165	560	1348	509	1479	1201	3302	225
1NA1 568-2BR40-0CA0	9500	1060	670	954	1305	1589	489	823	1400	290	120	165	560	1348	509	1479	1201	3302	225
4-pole																			
1NA1 454-4BR40-0AA0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 454-4BR40-0CA0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-4BR40-0AA0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-4BR40-0CA0	5300	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-4BR40-0AA0	5400	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-4BR40-0CA0	5600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 504-4BR40-0AA0	6400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 504-4BR40-0CA0	6600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-4BR40-0AA0	6800	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-4BR40-0CA0	7000	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-4BR40-0AA0	7300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-4BR40-0CA0	7600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 562-4BR40-0CA0	8400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 562-4BR40-0AA0	8100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 564-4BR40-0AA0	8500	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 564-4BR40-0CA0	8800	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 566-4BR40-0AA0	9000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 566-4BR40-0CA0	9400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 568-4BR40-0AA0	9400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 568-4BR40-0CA0	9800	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
6-pole																			
1NA1 454-6BR40-0AA0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 454-6BR40-0CA0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-6BR40-0AA0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 456-6BR40-0CA0	5300	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-6BR40-0AA0	5600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-6BR40-0CA0	5800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 502-6BR40-0AA0	6100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 502-6BR40-0CA0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 504-6BR40-0AA0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 504-6BR40-0CA0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-6BR40-0AA0	6900	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-6BR40-0CA0	7200	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-6BR40-0AA0	7400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-6BR40-0CA0	7700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 564-6BR40-0CA0	9300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 566-6BR40-0CA0	9800	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 568-6BR40-0CA0	10400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
8-pole																			
1NA1 454-8BR40-0AA0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 454-8BR40-0CA0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-8BR40-0AA0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-8BR40-0CA0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-8BR40-0AA0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-8BR40-0CA0	5700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 504-8BR40-0AA0	6400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 504-8BR40-0CA0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-8BR40-0AA0	6800	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-8BR40-0CA0	7000	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-8BR40-0AA0	7300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-8BR40-0CA0	7600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 564-8BR40-0CA0	9200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 566-8BR40-0CA0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 568-8BR40-0CA0	10300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NA1 454-4BR44-0AA0	4900	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 454-4BR44-0CA0	5100	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-4BR44-0AA0	5300	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-4BR44-0CA0	5500	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-4BR44-0AA0	5600	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-4BR44-0CA0	5800	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 504-4BR44-0AA0	6600	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 504-4BR44-0CA0	6800	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-4BR44-0AA0	7000	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-4BR44-0CA0	7200	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-4BR44-0AA0	7500	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-4BR44-0CA0	7800	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 562-4BR44-0CA0	8700	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 562-4BR44-0AA0	8300	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 564-4BR44-0AA0	8700	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 564-4BR44-0CA0	9100	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 566-4BR44-0AA0	9200	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 566-4BR44-0CA0	9600	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 568-4BR44-0AA0	9700	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 568-4BR44-0CA0	10100	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
6-pole														
1NA1 454-6BR44-0AA0	4900	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 454-6BR44-0CA0	5100	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-6BR44-0AA0	5200	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-6BR44-0CA0	5500	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-6BR44-0AA0	5700	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-6BR44-0CA0	6000	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 502-6BR44-0AA0	6300	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 502-6BR44-0CA0	6500	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 504-6BR44-0AA0	6700	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 504-6BR44-0CA0	6900	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-6BR44-0AA0	7100	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-6BR44-0CA0	7300	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-6BR44-0AA0	7600	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-6BR44-0CA0	7800	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 564-6BR44-0CA0	9500	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 566-6BR44-0CA0	10000	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 568-6BR44-0CA0	10600	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
8-pole													
1NA1 454-8BR44-0AA0	4900	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 454-8BR44-0CA0	5000	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-8BR44-0AA0	5200	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-8BR44-0CA0	5400	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-8BR44-0AA0	5700	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-8BR44-0CA0	5900	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 504-8BR44-0AA0	6600	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 504-8BR44-0CA0	6900	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-8BR44-0AA0	7000	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-8BR44-0CA0	7200	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-8BR44-0AA0	7500	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-8BR44-0CA0	7700	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 564-8BR44-0CA0	9400	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 566-8BR44-0CA0	10000	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 568-8BR44-0CA0	10500	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16

SIMOTICS HV C - 1NA1 IC416 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - const torque drive																						
	1150	**1NA1 454-2BR30-0CA0**	3583	96.8	0,90	184	3065	2,40	18.7	3600	540	2903	96.5	0,89	195	2606	94.3	0,88	90	2470	91.9	0,86
	1300	**1NA1 456-2BR30-0CA0**	3584	97.0	0,90	205	3464	2,60	20.6	3600	615	3280	96.7	0,90	220	2944	94.6	0,88	100	2790	92.3	0,86
	1460	**1NA1 458-2BR30-0CA0**	3585	97.1	0,91	230	3889	2,80	22.3	3600	690	3682	96.8	0,90	245	3305	94.8	0,88	115	3132	92.5	0,84
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - const torque drive																						
	1200	**1NA1 454-4BR30-0AA0**	1793	96.8	0,84	205	6391	3,10	21.5	2400	565	6055	96.4	0,84	200	5434	93.9	0,81	95	5150	90.6	0,73
	1200	**1NA1 454-4BR30-0CA0**	1792	96.8	0,84	205	6395	2,60	27.6	2400	565	6057	96.5	0,83	200	5436	94.1	0,81	95	5152	91.2	0,75
	1260	**1NA1 456-4BR30-0AA0**	1793	96.9	0,85	210	6711	3,50	24.8	2400	595	6353	96.6	0,84	210	5701	94.1	0,81	100	5404	91.0	0,73
	1270	**1NA1 456-4BR30-0CA0**	1793	96.9	0,84	215	6764	2,80	31.7	2400	600	6406	96.6	0,83	215	5749	94.4	0,81	100	5449	91.7	0,75
	1370	**1NA1 458-4BR30-0AA0**	1794	97.0	0,85	230	7292	3,70	27.2	2400	645	6905	96.7	0,84	230	6197	94.3	0,81	110	5874	91.3	0,72
	1400	**1NA1 458-4BR30-0CA0**	1794	97.0	0,85	235	7452	3,00	34.8	2400	660	7059	96.7	0,84	235	6335	94.6	0,81	110	6004	92.0	0,75
	1450	**1NA1 504-4BR30-0AA0**	1792	96.8	0,88	235	7727	2,90	32.5	2200	685	7319	96.6	0,87	245	6568	94.4	0,85	115	6225	91.8	0,81
	1450	**1NA1 504-4BR30-0CA0**	1793	96.8	0,86	240	7723	2,30	42.4	2200	685	7319	96.6	0,86	245	6568	94.6	0,85	115	6225	92.4	0,82
	1620	**1NA1 506-4BR30-0AA0**	1793	96.9	0,88	265	8628	3,20	37.1	2200	765	8170	96.7	0,87	270	7332	94.5	0,85	130	6949	92.0	0,79
	1650	**1NA1 506-4BR30-0CA0**	1793	97.0	0,87	270	8788	2,50	48.0	2200	780	8321	96.8	0,86	275	7468	94.8	0,85	130	7078	92.6	0,81
	1650	**1NA1 508-4BR30-0AA0**	1794	96.9	0,88	270	8783	3,40	42.4	2200	780	8318	96.8	0,88	275	7465	94.9	0,86	130	7075	92.6	0,81
	1660	**1NA1 508-4BR30-0CA0**	1794	97.0	0,87	275	8836	2,70	54.6	2200	785	8368	96.9	0,87	280	7510	95.1	0,85	130	7118	93.1	0,81
	2000	**1NA1 562-4BR30-0CA0**	1793	97.3	0,86	330	10652	2,20	72.5	2000	945	10084	97.1	0,86	335	9050	95.2	0,85	160	8577	93.2	0,82
	2005	**1NA1 562-4BR30-0AA0**	1794	97.2	0,87	330	10672	2,50	54.5	2000	945	10090	97.0	0,87	335	9055	95.1	0,85	160	8582	93.0	0,81
	2205	**1NA1 564-4BR30-0AA0**	1794	97.3	0,88	355	11737	2,60	59.9	2000	1040	11097	97.1	0,87	370	9959	95.2	0,85	175	9439	93.0	0,81
	2205	**1NA1 564-4BR30-0CA0**	1794	97.4	0,87	360	11737	2,30	79.4	2000	1040	11099	97.2	0,87	370	9961	95.3	0,85	175	9441	93.3	0,82
	2350	**1NA1 566-4BR30-0AA0**	1794	97.4	0,88	380	12509	2,90	66.7	2000	1110	11845	97.2	0,88	395	10630	95.1	0,86	185	10075	93.0	0,81
	2355	**1NA1 566-4BR30-0CA0**	1794	97.5	0,88	380	12535	2,50	88.0	2000	1110	11849	97.2	0,87	395	10634	95.3	0,85	185	10079	93.3	0,82
	2510	**1NA1 568-4BR30-0AA0**	1795	97.4	0,88	405	13353	3,30	73.4	2000	1185	12643	97.2	0,87	425	11346	94.9	0,85	200	10754	92.6	0,78
	2550	**1NA1 568-4BR30-0CA0**	1795	97.5	0,88	410	13566	2,80	96.7	2000	1205	12847	97.3	0,87	430	11530	95.2	0,85	205	10928	93.2	0,80
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - const torque drive																						
	850	**1NA1 454-6BR30-0AA0**	1193	96.4	0,81	152	6804	2,10	31.8	2200	400	6442	95.7	0,81	140	5781	92.7	0,80	65	5479	89.2	0,76
	900	**1NA1 454-6BR30-0CA0**	1193	96.5	0,84	154	7204	2,20	41.0	2200	425	6828	95.7	0,84	150	6127	92.7	0,83	70	5808	89.2	0,79
	980	**1NA1 456-6BR30-0AA0**	1194	96.5	0,81	174	7838	2,20	36.9	2200	460	7427	95.9	0,81	165	6665	93.1	0,80	75	6317	89.8	0,76
	980	**1NA1 456-6BR30-0CA0**	1194	96.6	0,84	168	7838	2,40	47.3	2200	460	7427	96.0	0,83	165	6665	93.2	0,83	75	6317	90.0	0,78
	1020	**1NA1 458-6BR30-0AA0**	1195	96.6	0,81	180	8151	2,70	43.6	2200	480	7722	96.2	0,80	170	6930	93.7	0,78	80	6568	90.4	0,71
	1020	**1NA1 458-6BR30-0CA0**	1195	96.6	0,83	176	8151	3,00	55.7	2200	480	7716	96.2	0,82	170	6925	93.8	0,80	80	6563	90.7	0,73
	1200	**1NA1 502-6BR30-0AA0**	1193	96.7	0,83	210	9605	2,10	52.8	2100	565	9106	95.9	0,84	200	8173	92.8	0,84	95	7746	89.4	0,82
	1250	**1NA1 502-6BR30-0CA0**	1194	96.9	0,86	210	9997	2,00	67.5	2100	590	9466	96.2	0,86	210	8495	93.5	0,87	100	8052	90.4	0,85
	1300	**1NA1 504-6BR30-0AA0**	1193	96.9	0,85	220	10406	2,30	59.7	2100	615	9857	96.1	0,85	215	8846	93.2	0,85	100	8384	89.9	0,83

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SIMOTICS HV C - 1NA1 IC416 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	1360	**1NA1 504-6BR30-0CA0**	1195	97.0	0,87	225	10868	2,10	76.1	2100	640	10301	96.4	0,87	230	9244	93.8	0,87	105	8762	90.9	0,85
	1400	**1NA1 506-6BR30-0AA0**	1194	96.9	0,85	235	11197	2,60	67.3	2100	660	10606	96.2	0,86	235	9519	93.4	0,85	110	9022	90.1	0,81
	1450	**1NA1 506-6BR30-0CA0**	1195	97.1	0,87	240	11587	2,40	85.6	2100	685	10971	96.5	0,87	245	9846	94.0	0,87	115	9332	91.1	0,83
	1550	**1NA1 508-6BR30-0AA0**	1194	97.0	0,86	260	12396	2,70	76.4	2100	730	11740	96.3	0,86	260	10536	93.5	0,86	120	9986	90.3	0,82
	1600	**1NA1 508-6BR30-0CA0**	1196	97.2	0,87	265	12775	2,40	96.7	2100	755	12102	96.6	0,87	270	10860	94.2	0,87	125	10294	91.4	0,84
	2050	**1NA1 564-6BR30-0CA0**	1195	97.3	0,88	330	16382	2,30	136.7	2000	965	15521	97.0	0,88	345	13929	94.7	0,89	160	13202	92.2	0,86
	2330	**1NA1 566-6BR30-0CA0**	1195	97.4	0,88	375	18619	2,30	151.9	2000	1100	17643	97.0	0,88	390	15834	94.7	0,89	185	15007	92.3	0,87
	2430	**1NA1 568-6BR30-0CA0**	1196	97.5	0,87	400	19402	2,70	167.0	2000	1145	18377	97.2	0,88	410	16493	94.9	0,88	190	15632	92.6	0,84
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - const torque drive																						
	760	**1NA1 454-8BR30-0AA0**	893	96.1	0,78	140	8127	1,80	32.0	2200	355	7703	94.8	0,78	125	6913	90.8	0,79	60	6552	86.1	0,76
	770	**1NA1 454-8BR30-0CA0**	893	96.2	0,81	138	8234	1,90	41.1	2200	360	7802	95.0	0,81	130	7002	91.0	0,81	60	6637	86.4	0,77
	820	**1NA1 456-8BR30-0AA0**	894	96.3	0,79	150	8759	2,00	37.1	2200	385	8303	95.2	0,79	135	7451	91.3	0,79	65	7063	86.7	0,75
	820	**1NA1 456-8BR30-0CA0**	894	96.3	0,81	146	8759	2,10	47.4	2200	385	8298	95.3	0,81	135	7447	91.5	0,80	65	7058	87.1	0,76
	860	**1NA1 458-8BR30-0AA0**	895	96.4	0,78	158	9176	2,50	43.9	2200	405	8696	95.6	0,78	145	7804	92.1	0,76	65	7397	87.8	0,70
	850	**1NA1 458-8BR30-0CA0**	896	96.3	0,79	156	9059	2,60	55.9	2200	400	8584	95.7	0,79	140	7704	92.3	0,77	65	7302	88.1	0,70
	900	**1NA1 504-8BR30-0CA0**	895	96.0	0,85	154	9603	2,40	75.7	2100	425	9093	95.2	0,84	150	8161	92.1	0,83	70	7735	88.3	0,79
	900	**1NA1 504-8BR30-0AA0**	895	96.1	0,80	162	9603	2,30	58.9	2100	425	9091	95.3	0,80	150	8159	92.3	0,78	70	7733	88.2	0,73
	950	**1NA1 506-8BR30-0AA0**	895	96.2	0,81	170	10136	2,20	66.4	2100	450	9600	95.3	0,81	160	8616	92.3	0,80	75	8166	88.4	0,76
	960	**1NA1 506-8BR30-0CA0**	896	96.1	0,85	164	10231	2,60	85.2	2100	455	9695	95.3	0,84	160	8701	92.4	0,82	75	8247	88.8	0,78
	1000	**1NA1 508-8BR30-0AA0**	895	96.3	0,82	176	10670	2,20	75.3	2100	470	10107	95.5	0,81	165	9070	92.8	0,80	80	8597	89.3	0,77
	1000	**1NA1 508-8BR30-0CA0**	896	96.2	0,85	170	10658	2,60	96.4	2100	470	10097	95.6	0,84	170	9062	93.0	0,82	80	8589	89.7	0,79
	1330	**1NA1 564-8BR30-0CA0**	895	96.8	0,85	225	14191	2,20	136.4	2000	625	13440	96.3	0,85	225	12061	93.6	0,85	105	11432	90.6	0,82
	1560	**1NA1 566-8BR30-0CA0**	896	96.9	0,85	265	16626	2,40	151.7	2000	735	15757	96.5	0,85	260	14141	93.8	0,85	120	13403	90.8	0,81
	1650	**1NA1 568-8BR30-0CA0**	896	97.0	0,84	280	17585	2,70	167.0	2000	780	16651	96.7	0,85	275	14944	94.1	0,83	130	14164	91.4	0,78

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2BR30-0CA0	4900	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2895	180
1NA1 456-2BR30-0CA0	5100	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2895	180
1NA1 458-2BR30-0CA0	5400	850	564	848	1079	1363	489	717	1250	254	95	130	450	1115	318	1246	1010	2895	180
4-pole																			
1NA1 454-4BR30-0AA0	4800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 454-4BR30-0CA0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-4BR30-0AA0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-4BR30-0CA0	5300	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-4BR30-0AA0	5400	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-4BR30-0CA0	5600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 504-4BR30-0AA0	6400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 504-4BR30-0CA0	6600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-4BR30-0AA0	6800	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-4BR30-0CA0	7000	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-4BR30-0AA0	7300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-4BR30-0CA0	7500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 562-4BR30-0CA0	8400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 562-4BR30-0AA0	8100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 564-4BR30-0AA0	8500	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 564-4BR30-0CA0	8800	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 566-4BR30-0AA0	9000	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 566-4BR30-0CA0	9300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 568-4BR30-0AA0	9500	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 568-4BR30-0CA0	9900	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
6-pole																			
1NA1 454-6BR30-0AA0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 454-6BR30-0CA0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-6BR30-0AA0	5100	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-6BR30-0CA0	5300	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-6BR30-0AA0	5600	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-6BR30-0CA0	5800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 502-6BR30-0AA0	6100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 502-6BR30-0CA0	6300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 504-6BR30-0AA0	6500	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 504-6BR30-0CA0	6700	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-6BR30-0AA0	6800	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 506-6BR30-0CA0	7100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-6BR30-0AA0	7300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-6BR30-0CA0	7600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 564-6BR30-0CA0	9200	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 566-6BR30-0CA0	9800	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 568-6BR30-0CA0	10400	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
8-pole																			
1NA1 454-8BR30-0AA0	4700	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 454-8BR30-0CA0	4900	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-8BR30-0AA0	5000	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 456-8BR30-0CA0	5200	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-8BR30-0AA0	5500	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 458-8BR30-0CA0	5800	850	564	848	1079	1363	489	717	1250	280	120	165	450	1115	318	1246	1010	2956	180
1NA1 504-8BR30-0CA0	6600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 504-8BR30-0AA0	6400	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-8BR30-0AA0	6800	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 506-8BR30-0CA0	7100	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-8BR30-0AA0	7300	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 508-8BR30-0CA0	7600	950	610	894	1175	1459	489	763	1320	315	140	200	500	1221	403	1352	1095	3166	200
1NA1 564-8BR30-0CA0	9100	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 566-8BR30-0CA0	9700	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225
1NA1 568-8BR30-0CA0	10300	1060	670	954	1305	1589	489	823	1400	335	160	240	560	1348	509	1479	1201	3422	225

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NA1 454-4BR34-0AA0	4900	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 454-4BR34-0CA0	5100	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-4BR34-0AA0	5300	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-4BR34-0CA0	5500	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-4BR34-0AA0	5600	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-4BR34-0CA0	5800	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 504-4BR34-0AA0	6600	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 504-4BR34-0CA0	6800	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-4BR34-0AA0	7000	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-4BR34-0CA0	7200	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-4BR34-0AA0	7400	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-4BR34-0CA0	7700	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 562-4BR34-0CA0	8600	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 562-4BR34-0AA0	8300	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 564-4BR34-0AA0	8700	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 564-4BR34-0CA0	9000	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 566-4BR34-0AA0	9200	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 566-4BR34-0CA0	9500	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 568-4BR34-0AA0	9700	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 568-4BR34-0CA0	10100	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
6-pole														
1NA1 454-6BR34-0AA0	4900	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 454-6BR34-0CA0	5000	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-6BR34-0AA0	5200	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-6BR34-0CA0	5400	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-6BR34-0AA0	5700	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-6BR34-0CA0	6000	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 502-6BR34-0AA0	6300	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 502-6BR34-0CA0	6500	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 504-6BR34-0AA0	6700	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 504-6BR34-0CA0	6900	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-6BR34-0AA0	7000	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-6BR34-0CA0	7300	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-6BR34-0AA0	7500	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-6BR34-0CA0	7800	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 564-6BR34-0CA0	9400	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC416 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 566-6BR34-0CA0	10000	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 568-6BR34-0CA0	10600	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
8-pole													
1NA1 454-8BR34-0AA0	4900	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 454-8BR34-0CA0	5000	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-8BR34-0AA0	5200	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 456-8BR34-0CA0	5400	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-8BR34-0AA0	5700	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 458-8BR34-0CA0	5900	1139	489	120	1240	1371	2956	3164	1080	1000	1150	26	8
1NA1 504-8BR34-0CA0	6800	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 504-8BR34-0AA0	6600	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-8BR34-0AA0	7000	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 506-8BR34-0CA0	7200	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-8BR34-0AA0	7500	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 508-8BR34-0CA0	7800	1235	489	140	1346	1477	3166	3374	1180	1120	1250	26	16
1NA1 564-8BR34-0CA0	9300	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 566-8BR34-0CA0	9900	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16
1NA1 568-8BR34-0CA0	10500	1370	489	160	1488	1619	3422	3630	1320	1250	1400	26	16

SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - const torque drive																						
800	710	**1NA1 402-2WC00-0A.0**	2978	96.6	0,93	750	2565	3,20	10.0	3600	310	1996	96.0	0,92	100	1650	93.6	0,89	45	1535	89.7	0,89
800	710	**1NA1 402-2WC00-0C.0**	2979	96.5	0,93	750	2564	3,20	12.3	3600	310	1995	95.9	0,91	100	1650	93.5	0,89	45	1535	89.5	0,89
850	750	**1NA1 404-2WC00-0A.0**	2978	96.6	0,94	780	2726	3,40	11.0	3600	330	2121	96.0	0,93	110	1754	93.5	0,91	50	1631	89.5	0,91
830	730	**1NA1 404-2WC00-0C.0**	2979	96.5	0,94	770	2661	3,40	13.5	3600	320	2070	95.9	0,93	105	1712	93.5	0,90	50	1592	89.6	0,90
900	790	**1NA1 406-2WC00-0A.0**	2981	96.8	0,94	830	2883	3,70	12.2	3600	350	2243	96.3	0,92	115	1855	94.3	0,90	50	1725	91.0	0,89
880	780	**1NA1 406-2WC00-0C.0**	2982	96.8	0,94	810	2818	3,70	14.9	3600	340	2192	96.2	0,92	110	1813	94.2	0,89	50	1686	91.0	0,89
920	810	**1NA1 408-2WC00-0A.0**	2982	96.9	0,95	840	2946	4,60	13.0	3600	355	2293	96.3	0,92	115	1896	94.3	0,89	55	1764	91.2	0,89
900	790	**1NA1 408-2WC00-0C.0**	2984	96.8	0,94	830	2880	4,50	15.9	3600	350	2242	96.1	0,92	115	1854	94.2	0,89	55	1724	91.3	0,88
1100	970	**1NA1 454-2WC00-0A.0**	2982	97.0	0,94	1000	3523	2,50	14.1	3600	425	2740	96.5	0,93	140	2266	94.2	0,92	65	2108	90.5	0,92
1050	930	**1NA1 454-2WC00-0C.0**	2983	96.9	0,94	960	3361	2,60	19.1	3600	405	2616	96.4	0,93	135	2163	94.4	0,92	60	2012	90.9	0,92
1200	1060	**1NA1 456-2WC00-0A.0**	2985	97.3	0,94	1100	3839	3,20	15.6	3600	465	2986	96.8	0,93	155	2469	95.0	0,91	70	2297	92.1	0,91
1150	1010	**1NA1 456-2WC00-0C.0**	2986	97.2	0,94	1060	3678	3,20	21.0	3600	445	2862	96.8	0,93	145	2366	95.1	0,91	65	2201	92.3	0,91
1230	1080	**1NA1 458-2WC00-0A.0**	2985	97.3	0,95	1120	3935	3,20	16.8	3600	480	3063	96.8	0,93	155	2533	95.0	0,91	70	2356	92.0	0,91
1200	1060	**1NA1 458-2WC00-0C.0**	2986	97.2	0,95	1080	3838	3,20	22.6	3600	465	2985	96.7	0,93	155	2468	95.0	0,91	70	2296	92.2	0,91
1600	1410	**1NA1 504-2WC00-0AJ0**	2985	97.2	0,90	1540	5119	3,00	22.6	3600	620	3982	96.6	0,90	205	3293	94.9	0,88	95	3063	92.1	0,88
1600	1410	**1NA1 504-2WC00-0C.0**	2986	97.1	0,91	1520	5117	3,00	30.1	3000	620	3981	96.4	0,90	205	3291	94.8	0,88	95	3061	92.2	0,88
1820	1600	**1NA1 506-2WC00-0AJ0**	2984	97.2	0,91	1720	5824	3,00	25.7	3600	705	4531	96.5	0,91	230	3747	94.6	0,90	105	3485	91.6	0,90
1850	1630	**1NA1 506-2WC00-0C.0**	2985	97.1	0,91	1760	5918	2,80	33.7	3000	720	4606	96.4	0,91	235	3808	94.5	0,90	110	3542	91.6	0,90
2200	1940	**1NA1 508-2WC00-0AJ0**	2986	97.4	0,91	2100	7036	3,40	28.1	3600	855	5474	96.7	0,91	280	4526	95.0	0,89	130	4210	92.5	0,89
2200	1940	**1NA1 508-2WC00-0C.0**	2987	97.4	0,91	2100	7033	3,20	36.7	3000	855	5471	96.6	0,91	280	4524	95.0	0,89	130	4208	92.6	0,89
2350	2070	**1NA1 566-2WC00-0C.0**	2988	97.2	0,91	2200	7510	2,50	55.3	3000	915	5845	96.6	0,91	300	4833	95.0	0,91	140	4496	92.3	0,91
2600	2290	**1NA1 568-2WC00-0C.0**	2990	97.4	0,92	2450	8304	3,10	60.0	3000	1010	6459	96.7	0,91	330	5340	95.1	0,90	155	4967	92.8	0,90
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - const torque drive																						
280	250	**1NA1 311-4WC00-0AG0**	1486	95.3	0,87	285	1799	3,60	3.6	3300	120	1549	92.9	0,84	40	1400	87.9	0,83	20	1351	80.3	0,84
370	330	**1NA1 313-4WC00-0AG0**	1486	95.5	0,88	370	2378	3,90	4.5	3300	160	2046	93.1	0,85	55	1851	88.6	0,83	25	1785	81.7	0,84
430	380	**1NA1 315-4WC00-0AG0**	1486	95.6	0,88	430	2763	4,10	5.1	3300	185	2377	93.1	0,85	65	2150	88.7	0,83	30	2074	82.1	0,84
500	440	**1NA1 317-4WC00-0AG0**	1488	95.7	0,87	500	3209	4,60	5.8	3300	215	2762	93.1	0,83	75	2498	89.1	0,81	35	2410	83.2	0,82
600	530	**1NA1 351-4WC00-0AG0**	1487	95.7	0,89	590	3853	3,40	7.9	2400	255	3316	93.6	0,87	90	2999	89.7	0,86	45	2893	83.6	0,87
640	560	**1NA1 353-4WC00-0AG0**	1488	95.9	0,89	630	4107	3,60	8.6	2400	275	3537	93.7	0,87	100	3199	90.1	0,86	45	3086	84.4	0,87
700	620	**1NA1 355-4WC00-0AG0**	1488	95.9	0,90	680	4492	3,70	9.5	2400	300	3868	93.7	0,87	105	3498	90.3	0,86	50	3375	85.0	0,87
820	720	**1NA1 357-4WC00-0AG0**	1488	96.0	0,90	790	5262	3,60	10.8	2400	350	4532	93.9	0,88	125	4099	90.4	0,87	60	3954	85.1	0,88
970	860	**1NA1 404-4WC00-0A.0**	1489	96.4	0,90	940	6221	2,80	15.6	2600	415	5361	95.0	0,89	150	4849	91.7	0,88	70	4678	86.6	0,88
960	850	**1NA1 404-4WC00-0C.0**	1487	96.4	0,89	940	6165	2,50	19.8	2600	410	5313	95.1	0,88	145	4805	91.7	0,88	70	4636	86.1	0,88
1070	940	**1NA1 406-4WC00-0A.0**	1490	96.5	0,90	1040	6858	3,00	17.4	2600	460	5912	95.1	0,89	165	5346	92.1	0,88	75	5158	87.3	0,89

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SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1060	930	**1NA1 406-4WC00-0C.0**	1488	96.5	0,90	1020	6803	2,70	22.0	2600	455	5863	95.3	0,89	160	5302	92.1	0,88	75	5115	87.0	0,89
1200	1060	**1NA1 408-4WC00-0A.0**	1490	96.7	0,91	1140	7691	3,20	19.7	2600	515	6627	95.2	0,89	185	5994	92.4	0,88	85	5782	87.9	0,89
1170	1030	**1NA1 408-4WC00-0C.0**	1489	96.7	0,90	1120	7503	2,80	24.9	2600	500	6466	95.5	0,89	180	5848	92.6	0,88	85	5642	87.9	0,88
1350	1190	**1NA1 454-4WC00-0A.0**	1489	96.8	0,90	1300	8658	2,50	26.4	2400	580	7464	95.6	0,89	205	6750	92.5	0,88	95	6512	87.4	0,89
1350	1190	**1NA1 454-4WC00-0C.0**	1489	96.7	0,89	1320	8658	2,20	33.9	2400	580	7465	95.7	0,88	205	6751	92.5	0,87	95	6513	87.3	0,88
1500	1320	**1NA1 456-4WC00-0A.0**	1489	96.9	0,91	1420	9620	2,60	30.4	2400	645	8291	95.8	0,90	230	7499	92.8	0,89	110	7234	88.1	0,89
1500	1320	**1NA1 456-4WC00-0C.0**	1489	96.9	0,90	1440	9620	2,30	39.0	2400	645	8291	95.8	0,89	230	7498	92.9	0,88	110	7234	88.1	0,88
1620	1430	**1NA1 458-4WC00-0C.0**	1490	97.1	0,90	1560	10382	2,50	42.8	2400	695	8945	96.1	0,89	250	8090	93.4	0,87	115	7805	89.2	0,88
1650	1450	**1NA1 458-4WC00-0A.0**	1490	97.0	0,91	1560	10575	2,70	33.5	2400	710	9116	96.0	0,89	255	8244	93.3	0,88	120	7953	88.9	0,88
1710	1510	**1NA1 504-4WC00-0A.0**	1489	96.6	0,88	1680	10967	2,40	32.5	2200	735	9452	95.5	0,87	260	8548	92.3	0,87	125	8246	87.2	0,87
1700	1500	**1NA1 504-4WC00-0C.0**	1489	96.6	0,85	1740	10902	1,90	42.4	2200	730	9393	95.6	0,86	260	8495	92.5	0,86	120	8195	87.5	0,86
1815	1600	**1NA1 506-4WC00-0A.0**	1489	96.7	0,89	1760	11640	2,60	37.1	2200	775	10010	95.4	0,89	275	9052	92.3	0,88	130	8733	87.3	0,89
1800	1590	**1NA1 506-4WC00-0C.0**	1490	96.7	0,87	1800	11536	2,00	48.0	2200	775	9949	95.6	0,88	275	8998	92.5	0,87	130	8681	87.6	0,88
2160	1910	**1NA1 508-4WC00-0A.0**	1490	96.9	0,89	2100	13843	2,80	42.4	2200	930	11932	95.7	0,88	330	10791	93.0	0,87	155	10411	88.8	0,88
2160	1900	**1NA1 508-4WC00-0C.0**	1491	97.0	0,87	2150	13834	2,20	54.6	2200	930	11927	96.0	0,87	330	10786	93.3	0,87	155	10406	89.1	0,87
2350	2070	**1NA1 564-4WC00-0A.0**	1491	97.1	0,88	2300	15051	2,20	59.9	2000	1010	12974	96.0	0,88	360	11733	93.2	0,87	170	11320	88.8	0,88
2320	2050	**1NA1 564-4WC00-0C.0**	1491	97.1	0,87	2300	14859	1,90	79.4	2000	995	12811	96.1	0,87	355	11585	93.3	0,87	170	11177	88.7	0,87
2415	2130	**1NA1 566-4WC00-0A.0**	1491	97.1	0,89	2350	15467	2,20	66.7	2000	1035	13312	96.0	0,89	370	12039	93.2	0,88	175	11614	88.6	0,89
2400	2120	**1NA1 566-4WC00-0C.0**	1491	97.1	0,88	2350	15371	2,00	88.0	2000	1030	13252	96.0	0,88	370	11985	93.2	0,88	175	11563	88.6	0,89
2660	2340	**1NA1 568-4WC00-0A.0**	1492	97.2	0,90	2550	17025	2,60	73.4	2000	1140	14673	96.1	0,89	410	13269	93.4	0,89	195	12802	89.2	0,89
2655	2340	**1NA1 568-4WC00-0C.0**	1492	97.3	0,89	2550	16993	2,20	96.7	2000	1140	14625	96.2	0,89	410	13227	93.5	0,88	195	12760	89.2	0,89
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - const torque drive																						
240	210	**1NA1 311-6WC00-0AG0**	992	95.0	0,83	255	2310	2,70	5.8	3100	105	1990	92.2	0,81	35	1800	86.7	0,80	15	1737	78.7	0,82
300	260	**1NA1 313-6WC00-0AG0**	992	95.2	0,84	315	2888	3,00	7.0	3100	130	2486	92.3	0,80	45	2248	87.3	0,80	20	2169	79.9	0,81
360	320	**1NA1 315-6WC00-0AG0**	993	95.3	0,84	375	3462	3,10	8.1	3100	155	2982	92.3	0,80	55	2697	87.4	0,79	25	2602	80.4	0,80
410	360	**1NA1 317-6WC00-0AG0**	992	95.3	0,85	425	3947	2,80	8.8	3100	175	3399	92.6	0,82	65	3074	87.7	0,82	30	2966	80.5	0,83
550	490	**1NA1 351-6WC00-0AG0**	991	95.4	0,86	560	5300	2,30	14.0	2000	235	4562	93.2	0,85	85	4126	88.3	0,85	40	3980	80.6	0,86
620	550	**1NA1 353-6WC00-0AG0**	991	95.5	0,86	630	5974	2,30	15.4	2000	265	5144	93.3	0,85	95	4652	88.4	0,85	45	4488	80.9	0,86
700	620	**1NA1 355-6WC00-0AG0**	992	95.5	0,86	710	6738	2,40	17.2	2000	300	5807	93.4	0,85	105	5251	88.6	0,85	50	5066	81.3	0,86
790	700	**1NA1 357-6WC00-0AG0**	992	95.6	0,87	790	7605	2,50	19.3	2000	340	6550	93.4	0,85	120	5924	88.8	0,85	55	5715	81.8	0,86
920	810	**1NA1 404-6WC00-0AG0**	992	95.9	0,88	910	8856	2,30	25.8	2400	395	7633	94.0	0,88	140	6903	89.6	0,87	65	6660	83.0	0,88
910	800	**1NA1 404-6WC00-0CG0**	991	95.8	0,87	910	8769	2,00	33.2	2400	390	7565	94.2	0,87	140	6842	89.5	0,87	65	6601	82.3	0,88
1050	930	**1NA1 406-6WC00-0AG0**	992	96.0	0,89	1020	10108	2,40	29.6	2400	450	8711	94.1	0,88	160	7878	89.9	0,88	75	7600	83.4	0,89
1020	900	**1NA1 406-6WC00-0CG0**	991	96.0	0,88	1020	9829	2,10	38.0	2400	435	8475	94.4	0,87	155	7664	90.0	0,87	75	7394	83.2	0,88
1150	1010	**1NA1 408-6WC00-0AG0**	992	96.1	0,89	1120	11070	2,80	33.5	2400	495	9541	94.2	0,88	175	8629	90.3	0,87	80	8325	84.3	0,88

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SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1150	1010	**1NA1 408-6WC00-0CG0**	992	96.2	0,88	1140	11070	2,30	41.9	2400	495	9541	94.7	0,87	175	8629	90.8	0,87	80	8325	84.7	0,88
1200	1060	**1NA1 454-6WC00-0A.0**	991	96.1	0,86	1220	11563	2,20	39.5	2200	515	9968	94.4	0,85	185	9014	90.3	0,86	85	8697	83.7	0,87
1200	1060	**1NA1 454-6WC00-0C.0**	990	96.1	0,85	1220	11575	1,90	49.1	2200	515	9984	94.5	0,85	180	9029	90.1	0,85	85	8711	83.1	0,86
1360	1200	**1NA1 456-6WC00-0A.0**	992	96.4	0,87	1360	13092	2,60	45.8	2200	585	11284	94.7	0,85	210	10204	91.0	0,85	100	9845	85.2	0,86
1360	1200	**1NA1 456-6WC00-0C.0**	992	96.4	0,86	1380	13092	2,20	56.8	2200	585	11288	94.9	0,85	205	10208	91.2	0,86	95	9849	85.2	0,86
1550	1370	**1NA1 458-6WC00-0C.0**	992	96.6	0,86	1560	14921	2,20	67.0	2200	665	12863	95.2	0,86	235	11633	91.7	0,86	110	11223	86.1	0,87
1550	1370	**1NA1 458-6WC00-0A.0**	992	96.6	0,87	1540	14921	2,50	54.3	2200	665	12854	95.0	0,86	235	11625	91.6	0,86	110	11215	86.1	0,87
1680	1480	**1NA1 502-6WC00-0C.0**	990	96.3	0,83	1760	16205	1,40	67.5	2100	720	13969	95.1	0,86	255	12633	91.1	0,87	120	12188	84.7	0,88
1600	1410	**1NA1 502-6WC00-0A.0**	988	96.0	0,81	1720	15464	1,50	52.8	2100	685	13334	94.6	0,84	240	12059	90.2	0,86	110	11634	83.1	0,87
1670	1470	**1NA1 504-6WC00-0A.0**	988	96.0	0,83	1760	16141	1,60	59.7	2100	715	13915	94.6	0,86	255	12584	90.1	0,87	115	12140	83.1	0,88
1760	1550	**1NA1 504-6WC00-0C.0**	990	96.3	0,84	1820	16977	1,40	76.1	2100	755	14633	95.0	0,87	270	13234	90.9	0,88	125	12767	84.4	0,89
1900	1680	**1NA1 506-6WC00-0A.0**	989	96.3	0,84	1960	18345	1,70	67.3	2100	815	15811	94.8	0,86	290	14299	90.6	0,87	135	13795	84.2	0,88
2020	1780	**1NA1 506-6WC00-0C.0**	991	96.5	0,85	2050	19465	1,50	85.6	2100	865	16777	95.3	0,87	310	15172	91.5	0,88	145	14638	85.6	0,89
2205	1940	**1NA1 508-6WC00-0A.0**	990	96.5	0,86	2200	21269	1,90	76.4	2100	945	18295	95.0	0,86	335	16546	91.2	0,87	155	15962	85.4	0,88
2350	2070	**1NA1 508-6WC00-0C.0**	992	96.7	0,86	2350	22622	1,60	96.7	2100	1010	19490	95.5	0,87	360	17626	92.1	0,88	170	17005	86.7	0,89
2500	2200	**1NA1 564-6WC00-0C.0**	992	97.1	0,87	2500	24066	1,90	136.7	2000	1075	20731	95.9	0,88	380	18748	92.7	0,89	180	18088	87.7	0,90
2850	2510	**1NA1 566-6WC00-0C.0**	994	97.3	0,87	2800	27380	2,20	151.9	2000	1225	23606	96.2	0,88	435	21348	93.6	0,88	205	20596	89.5	0,89
3005	2650	**1NA1 568-6WC00-0C.0**	993	97.3	0,88	2950	28898	2,00	167.0	2000	1290	24869	96.1	0,88	460	22491	93.3	0,89	215	21698	88.9	0,90
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - const torque drive																						
750	660	**1NA1 404-8WC00-0AG0**	740	95.0	0,84	790	9678	1,90	26.7	2400	320	8348	92.2	0,83	115	7550	85.6	0,83	50	7284	75.8	0,85
710	630	**1NA1 404-8WC00-0CG0**	738	94.9	0,82	760	9187	1,70	32.8	2400	305	7923	92.2	0,82	105	7165	85.2	0,81	50	6913	74.6	0,83
860	760	**1NA1 406-8WC00-0AG0**	742	95.4	0,84	900	11068	2,40	30.6	2400	370	9545	92.7	0,82	130	8632	87.0	0,81	60	8328	78.6	0,83
850	750	**1NA1 406-8WC00-0CG0**	740	95.3	0,82	910	10969	2,00	37.6	2400	365	9453	92.8	0,81	130	8549	86.8	0,81	60	8248	77.7	0,82
900	790	**1NA1 408-8WC00-0AG0**	741	95.4	0,85	930	11598	2,20	33.8	2400	385	9999	92.7	0,85	135	9042	86.9	0,84	65	8724	78.2	0,85
860	760	**1NA1 408-8WC00-0CG0**	740	95.3	0,84	900	11098	1,90	41.5	2400	370	9570	92.8	0,83	130	8654	86.8	0,82	60	8349	77.7	0,84
950	840	**1NA1 454-8WC00-0A.0**	740	95.3	0,80	1040	12259	1,80	40.0	2200	405	10568	92.9	0,80	145	9557	87.0	0,82	65	9220	78.1	0,83
920	810	**1NA1 454-8WC00-0C.0**	739	95.2	0,81	1000	11888	1,90	48.8	2200	395	10253	92.8	0,80	140	9273	86.5	0,81	65	8946	76.8	0,83
1060	940	**1NA1 456-8WC00-0A.0**	741	95.5	0,81	1140	13660	1,90	46.4	2200	455	11771	93.2	0,81	160	10645	87.7	0,82	75	10270	79.4	0,83
1050	930	**1NA1 456-8WC00-0C.0**	740	95.4	0,81	1140	13550	2,00	56.4	2200	450	11683	93.1	0,81	160	10566	87.2	0,82	70	10193	78.3	0,84
1300	1150	**1NA1 458-8WC00-0A.0**	742	95.9	0,81	1400	16731	2,10	54.9	2200	555	14421	93.8	0,80	195	13042	88.9	0,81	90	12582	81.6	0,82
1270	1120	**1NA1 458-8WC00-0C.0**	741	95.9	0,81	1360	16367	2,20	66.6	2200	545	14109	93.8	0,80	190	12759	88.8	0,81	90	12310	81.1	0,82
1400	1240	**1NA1 504-8WC00-0C.0**	741	95.7	0,84	1460	18042	1,60	75.7	2100	600	15545	94.1	0,84	210	14059	89.6	0,84	100	13563	82.4	0,85
1350	1190	**1NA1 504-8WC00-0A.0**	740	95.5	0,79	1500	17421	1,40	58.9	2100	580	15020	93.8	0,80	205	13583	88.9	0,80	95	13105	81.0	0,82
1600	1410	**1NA1 506-8WC00-0A.0**	742	95.9	0,80	1740	20591	1,70	66.4	2100	685	17755	94.2	0,80	245	16057	89.9	0,80	115	15491	83.0	0,81
1610	1420	**1NA1 506-8WC00-0C.0**	743	96.0	0,84	1680	20692	1,90	85.2	2100	690	17846	94.4	0,83	245	16139	90.5	0,83	115	15570	84.3	0,83

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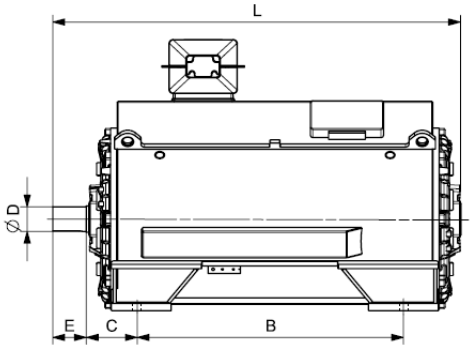
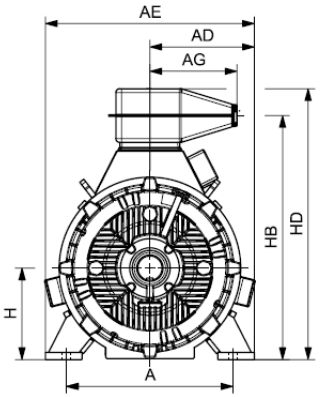
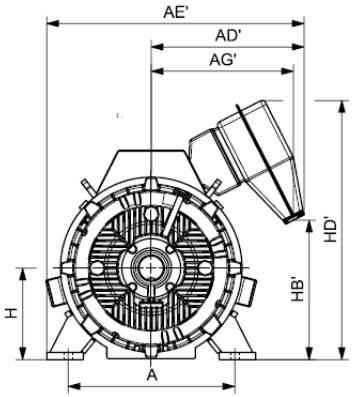
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - VSD const torque

Rated power IEC		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1800	1590	**1NA1 508-8WC00-0C.0**	743	96.1	0,84	1860	23134	1,90	96.4	2100	770	19950	94.4	0,84	275	18042	90.7	0,83	130	17406	84.9	0,84
1800	1590	**1NA1 508-8WC00-0A.0**	742	96.0	0,80	1960	23165	1,60	75.3	2100	770	19975	94.3	0,80	275	18065	90.2	0,80	125	17428	83.6	0,81
1800	1590	**1NA1 562-8WC00-0C.0**	742	96.3	0,83	1880	23165	1,50	119.7	2000	770	19980	94.8	0,85	275	18069	90.7	0,86	125	17432	84.2	0,87
2080	1840	**1NA1 564-8WC00-0C.0**	741	96.2	0,82	2200	26805	1,40	136.4	2000	890	23110	94.8	0,85	315	20900	90.3	0,86	145	20163	83.4	0,87
2235	1970	**1NA1 566-8WC00-0C.0**	744	96.8	0,84	2300	28686	1,80	151.7	2000	955	24698	95.4	0,85	340	22336	92.0	0,85	160	21549	86.9	0,86
2500	2210	**1NA1 568-8WC00-0C.0**	743	96.6	0,84	2600	32131	1,60	167.0	2000	1070	27710	95.1	0,86	380	25060	91.4	0,86	175	24177	85.6	0,87







Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2WC00-0A.0	2600	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 402-2WC00-0C.0	2700	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 404-2WC00-0A.0	2800	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 404-2WC00-0C.0	2800	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 406-2WC00-0A.0	2900	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 406-2WC00-0C.0	3000	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 408-2WC00-0A.0	3000	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 408-2WC00-0C.0	3100	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 454-2WC00-0A.0	3700	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 454-2WC00-0C.0	3800	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 456-2WC00-0A.0	3900	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 456-2WC00-0C.0	4100	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 458-2WC00-0A.0	4100	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 458-2WC00-0C.0	4300	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 504-2WC00-0AJ0	4900	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 504-2WC00-0C.0	5100	950	371	870	936	1435	371	750	1320	280	110	165	500	1448	873	1613	1494	2049	o.r.
1NA1 506-2WC00-0AJ0	5300	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 506-2WC00-0C.0	5500	950	371	870	936	1435	371	750	1320	280	110	165	500	1448	873	1613	1494	2049	o.r.
1NA1 508-2WC00-0AJ0	5600	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 508-2WC00-0C.0	5800	950	371	870	936	1435	371	750	1320	280	110	165	500	1448	873	1613	1494	2049	o.r.
1NA1 566-2WC00-0C.0	7400	1060	380	903	1015	1538	371	782	1400	290	120	165	560	1584	998	1749	1619	2193	o.r.
1NA1 568-2WC00-0C.0	7800	1060	380	903	1015	1538	371	782	1400	290	120	165	560	1584	998	1749	1619	2193	o.r.
4-pole																			

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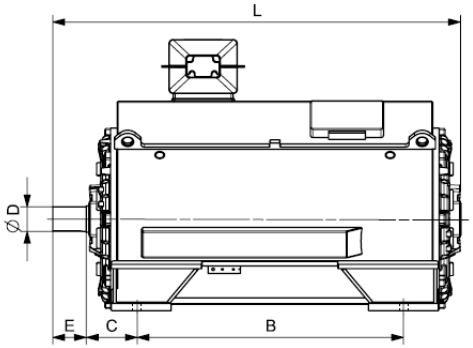

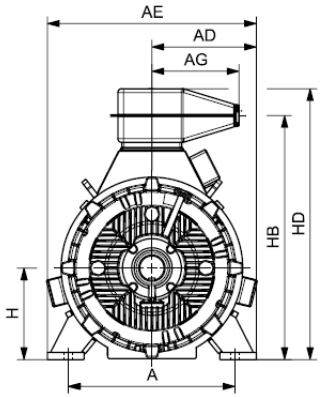

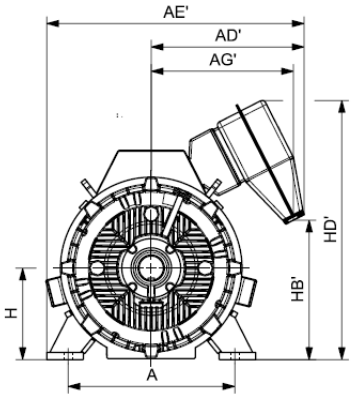

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 311-4WC00-0AG0	1300	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 313-4WC00-0AG0	1400	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 315-4WC00-0AG0	1500	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 317-4WC00-0AG0	1700	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 351-4WC00-0AG0	2000	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 353-4WC00-0AG0	2100	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 355-4WC00-0AG0	2200	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 357-4WC00-0AG0	2400	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 404-4WC00-0A.0	2800	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-4WC00-0C.0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-4WC00-0A.0	3000	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-4WC00-0C.0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-4WC00-0A.0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-4WC00-0C.0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-4WC00-0A.0	3800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 454-4WC00-0C.0	3900	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-4WC00-0A.0	4100	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-4WC00-0C.0	4300	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-4WC00-0C.0	4600	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-4WC00-0A.0	4400	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 504-4WC00-0A.0	5100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-4WC00-0C.0	5300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-4WC00-0A.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-4WC00-0C.0	5800	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.

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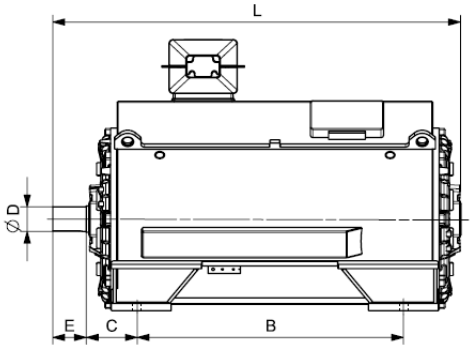

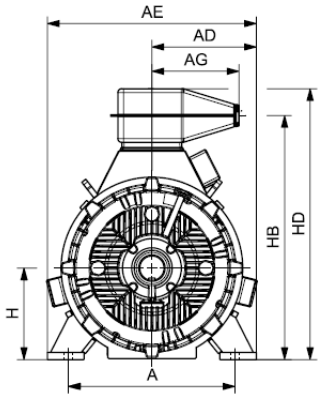

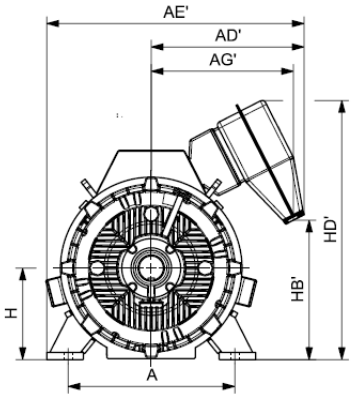

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 508-4WC00-0A.0	6000	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-4WC00-0C.0	6300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-4WC00-0A.0	7000	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 564-4WC00-0C.0	7300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-4WC00-0A.0	7400	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-4WC00-0C.0	7800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-4WC00-0A.0	7900	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-4WC00-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
6-pole																			
1NA1 311-6WC00-0AG0	1300	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 313-6WC00-0AG0	1500	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 315-6WC00-0AG0	1600	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 317-6WC00-0AG0	1700	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 351-6WC00-0AG0	2000	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 353-6WC00-0AG0	2100	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 355-6WC00-0AG0	2200	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 357-6WC00-0AG0	2400	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 404-6WC00-0AG0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-6WC00-0CG0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-6WC00-0AG0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-6WC00-0CG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-6WC00-0AG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-6WC00-0CG0	3600	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-6WC00-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.

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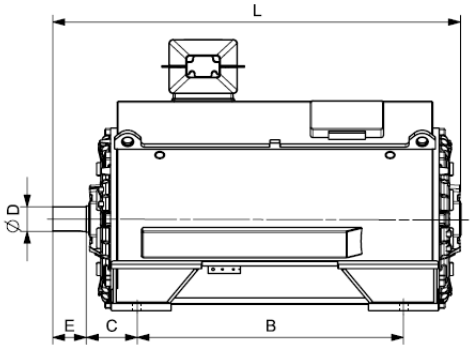

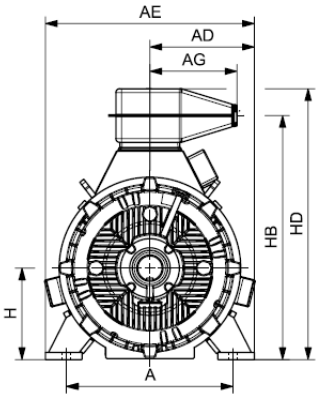

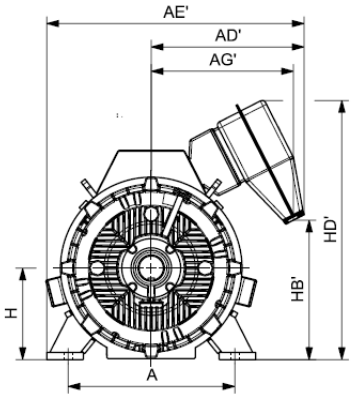

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 454-6WC00-0C.0	3900	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-6WC00-0A.0	4100	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-6WC00-0C.0	4300	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-6WC00-0C.0	4800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-6WC00-0A.0	4600	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 502-6WC00-0C.0	5100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 502-6WC00-0A.0	4900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-6WC00-0A.0	5300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-6WC00-0C.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-6WC00-0A.0	5700	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-6WC00-0C.0	5900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-6WC00-0A.0	6100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-6WC00-0C.0	6400	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-6WC00-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-6WC00-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-6WC00-0C.0	8900	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
8-pole																			
1NA1 404-8WC00-0AG0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-8WC00-0CG0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-8WC00-0AG0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-8WC00-0CG0	3300	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-8WC00-0AG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-8WC00-0CG0	3500	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-8WC00-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.

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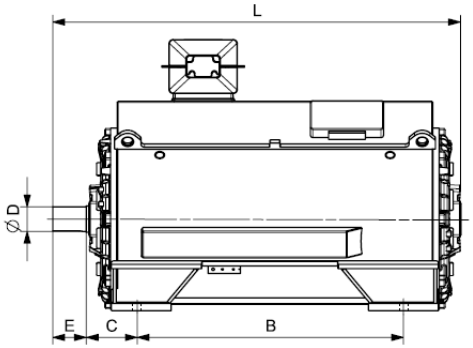

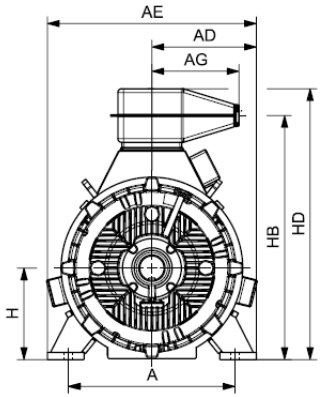

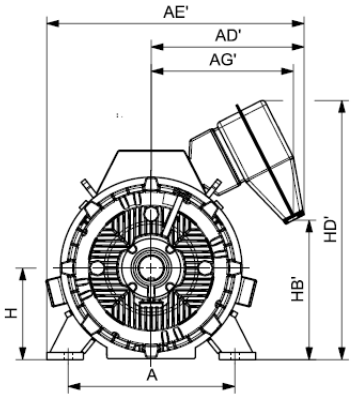

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 454-8WC00-0C.0	3800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-8WC00-0A.0	4000	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-8WC00-0C.0	4200	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-8WC00-0A.0	4500	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-8WC00-0C.0	4700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 504-8WC00-0C.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-8WC00-0A.0	5200	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-8WC00-0A.0	5600	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-8WC00-0C.0	5900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-8WC00-0C.0	6400	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-8WC00-0A.0	6100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 562-8WC00-0C.0	7100	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 564-8WC00-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-8WC00-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-8WC00-0C.0	8800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.

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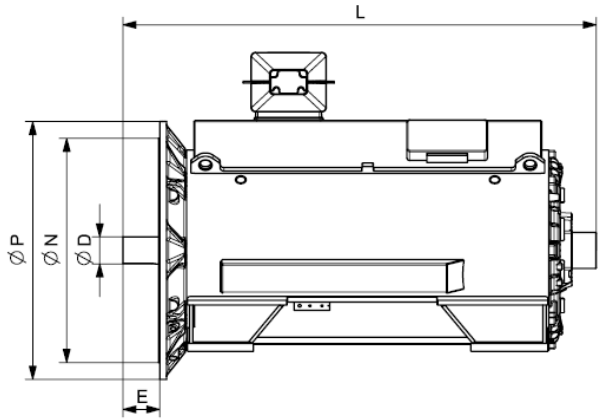

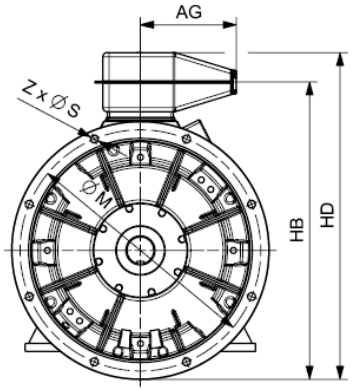

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NA1 311-4WC08-0AG0	1300	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 313-4WC08-0AG0	1500	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 315-4WC08-0AG0	1600	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 317-4WC08-0AG0	1700	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 351-4WC08-0AG0	2100	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 353-4WC08-0AG0	2200	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 355-4WC08-0AG0	2300	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 357-4WC08-0AG0	2500	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 404-4WC08-0AG0	2900	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-4WC08-0CG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-4WC08-0AG0	3100	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-4WC08-0CG0	3200	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-4WC08-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-4WC08-0CG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-4WC08-0AG0	3900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WC08-0CG0	4100	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WC08-0AG0	4300	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WC08-0CG0	4500	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WC08-0CG0	4800	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WC08-0AG0	4600	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WC08-0AG0	5300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WC08-0CG0	5500	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16

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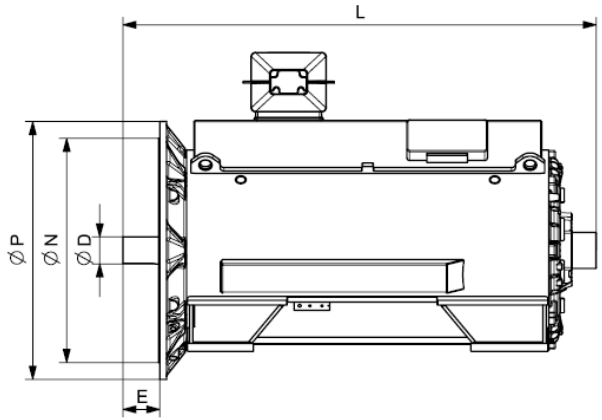

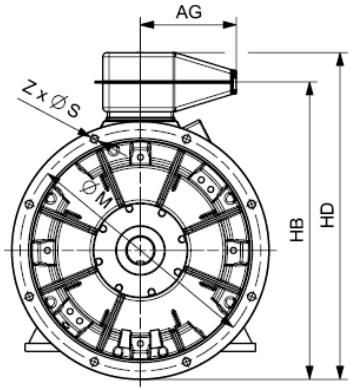

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NA1 506-4WC08-0AG0	5700	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WC08-0CG0	5900	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WC08-0AG0	6200	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WC08-0CG0	6500	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-4WC08-0AG0	7200	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WC08-0CG0	7500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WC08-0AG0	7700	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WC08-0CG0	8000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WC08-0AG0	8100	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WC08-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
6-pole														
1NA1 311-6WC08-0AG0	1400	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 313-6WC08-0AG0	1500	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 315-6WC08-0AG0	1600	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 317-6WC08-0AG0	1700	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 351-6WC08-0AG0	2000	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 353-6WC08-0AG0	2100	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 355-6WC08-0AG0	2300	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 357-6WC08-0AG0	2500	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 404-6WC08-0AG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-6WC08-0CG0	3200	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-6WC08-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-6WC08-0CG0	3400	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8

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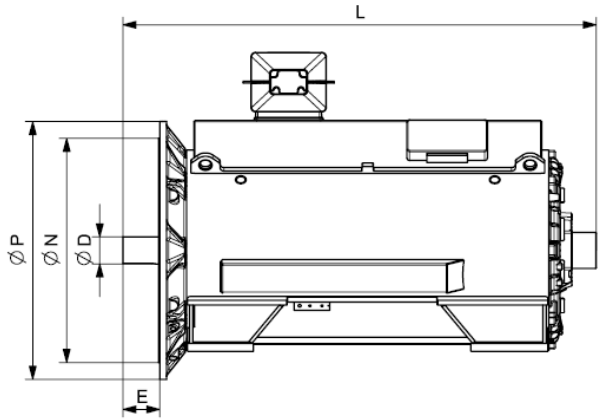

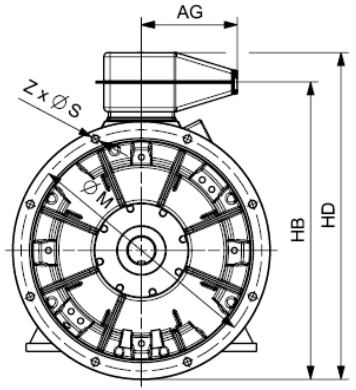

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 408-6WC08-0AG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-6WC08-0CG0	3700	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-6WC08-0AG0	3900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-6WC08-0CG0	4100	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WC08-0AG0	4200	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WC08-0CG0	4400	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WC08-0CG0	4900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WC08-0AG0	4700	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WC08-0CG0	5300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WC08-0AG0	5100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WC08-0AG0	5400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WC08-0CG0	5700	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WC08-0AG0	5800	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WC08-0CG0	6100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WC08-0AG0	6300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WC08-0CG0	6600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WC08-0CG0	7900	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WC08-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WC08-0CG0	9100	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 404-8WC08-0AG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-8WC08-0CG0	3100	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-8WC08-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8

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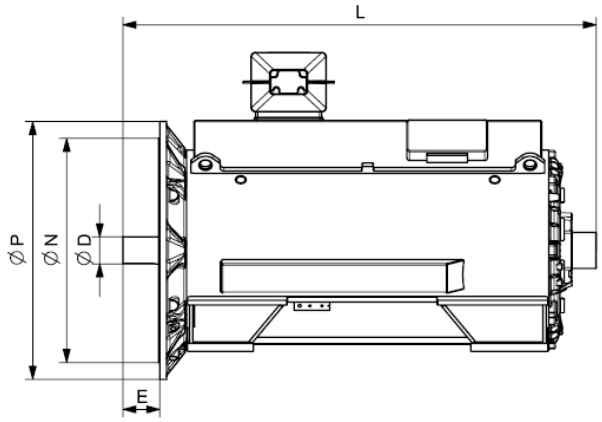

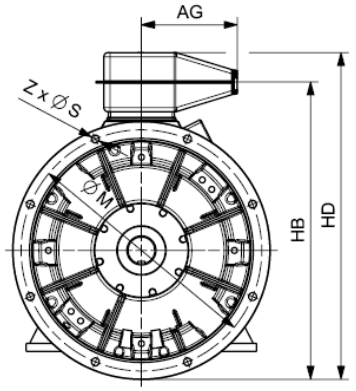

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 406-8WC08-0CG0	3400	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-8WC08-0AG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-8WC08-0CG0	3600	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-8WC08-0AG0	3800	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WC08-0CG0	4000	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WC08-0AG0	4200	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WC08-0CG0	4400	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WC08-0AG0	4700	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WC08-0CG0	4900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 504-8WC08-0CG0	5600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WC08-0AG0	5400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WC08-0AG0	5800	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WC08-0CG0	6100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WC08-0CG0	6600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WC08-0AG0	6300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 562-8WC08-0CG0	7300	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 564-8WC08-0CG0	7900	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WC08-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WC08-0CG0	9000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - const torque drive																						
930	820	**1NA1 402-2WC10-0A.0**	3579	96.7	0,93	870	2481	3,20	10.0	3600	360	1931	96.3	0,91	120	1596	94.5	0,88	55	1485	91.4	0,88
930	820	**1NA1 402-2WC10-0C.0**	3580	96.6	0,93	870	2481	3,10	12.3	3600	360	1930	96.1	0,91	120	1596	94.3	0,88	55	1484	91.2	0,88
980	860	**1NA1 404-2WC10-0A.0**	3579	96.7	0,94	900	2615	3,60	11.0	3600	380	2034	96.3	0,92	125	1682	94.5	0,90	55	1565	91.4	0,90
980	860	**1NA1 404-2WC10-0C.0**	3580	96.6	0,94	900	2614	3,50	13.5	3600	380	2033	96.1	0,92	125	1681	94.3	0,90	55	1564	91.3	0,89
1000	880	**1NA1 406-2WC10-0A.0**	3581	96.7	0,95	910	2667	3,90	12.2	3600	390	2075	96.3	0,93	125	1715	94.5	0,90	60	1596	91.6	0,90
1000	880	**1NA1 406-2WC10-0C.0**	3582	96.7	0,94	920	2666	3,80	14.9	3600	390	2075	96.1	0,92	125	1716	94.3	0,90	60	1596	91.4	0,89
1100	970	**1NA1 408-2WC10-0A.0**	3583	97.0	0,94	1000	2932	4,40	13.0	3600	425	2282	96.5	0,91	140	1887	95.1	0,88	65	1755	92.7	0,88
1060	930	**1NA1 408-2WC10-0C.0**	3585	96.9	0,94	970	2824	4,40	15.9	3600	410	2198	96.4	0,91	135	1817	95.0	0,87	60	1690	92.7	0,87
1200	1060	**1NA1 454-2WC10-0C.0**	3585	97.0	0,94	1100	3196	2,90	19.4	3600	465	2487	96.7	0,93	155	2056	95.3	0,91	70	1913	92.8	0,90
1280	1130	**1NA1 456-2WC10-0C.0**	3583	97.0	0,94	1180	3411	2,60	21.3	3600	495	2654	96.7	0,94	165	2194	95.0	0,92	75	2041	92.2	0,92
1500	1320	**1NA1 458-2WC10-0C.0**	3587	97.4	0,95	1360	3993	3,40	23.0	3600	585	3109	96.9	0,93	190	2571	95.7	0,91	90	2391	93.7	0,90
1840	1620	**1NA1 504-2WC10-0CJ0**	3583	96.9	0,90	1760	4904	2,50	29.2	3600	715	3816	96.3	0,91	235	3156	94.6	0,90	110	2935	92.0	0,90
2240	1970	**1NA1 506-2WC10-0CJ0**	3586	97.2	0,91	2100	5965	2,90	33.0	3600	870	4642	96.5	0,91	285	3838	95.1	0,89	130	3570	92.9	0,89
2300	2030	**1NA1 508-2WC10-0CJ0**	3587	97.3	0,91	2150	6123	3,20	36.0	3600	895	4764	96.5	0,91	295	3939	95.2	0,89	135	3664	93.1	0,89
2580	2270	**1NA1 566-2WC10-0CJ0**	3589	97.1	0,92	2400	6865	2,80	54.6	3600	1000	5341	96.6	0,91	330	4416	95.2	0,90	150	4108	93.1	0,90
2900	2550	**1NA1 568-2WC10-0CJ0**	3592	97.2	0,92	2700	7710	3,60	59.3	3600	1125	5997	96.4	0,90	370	4959	95.1	0,88	170	4612	93.2	0,88
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - const torque drive																						
320	280	**1NA1 311-4WC10-0AG0**	1787	95.6	0,86	325	1710	3,80	3.6	3300	135	1473	93.2	0,84	50	1332	89.3	0,82	25	1285	83.4	0,83
420	370	**1NA1 313-4WC10-0AG0**	1786	95.8	0,88	415	2246	3,90	4.5	3300	180	1933	93.3	0,85	65	1748	89.6	0,83	30	1686	84.0	0,84
490	430	**1NA1 315-4WC10-0AG0**	1787	95.9	0,87	490	2618	4,40	5.1	3300	210	2253	93.1	0,84	75	2038	89.8	0,82	35	1966	84.7	0,82
580	510	**1NA1 317-4WC10-0AG0**	1786	95.9	0,89	570	3101	4,10	5.8	3300	250	2668	93.3	0,86	90	2413	89.9	0,84	40	2328	84.7	0,85
620	550	**1NA1 351-4WC10-0AG0**	1787	96.0	0,90	600	3313	3,20	7.9	2400	265	2850	93.9	0,88	95	2577	90.8	0,88	45	2487	85.9	0,88
680	600	**1NA1 353-4WC10-0AG0**	1790	96.0	0,87	680	3628	4,40	8.6	2400	290	3126	93.4	0,83	105	2827	90.9	0,82	50	2727	87.1	0,82
750	660	**1NA1 355-4WC10-0AG0**	1789	96.2	0,90	720	4003	3,60	9.5	2400	320	3449	93.9	0,88	115	3120	91.2	0,87	55	3010	87.0	0,87
880	780	**1NA1 357-4WC10-0AG0**	1788	96.2	0,91	840	4700	3,70	10.8	2400	375	4047	94.0	0,89	135	3660	91.3	0,88	65	3531	87.1	0,88
1100	970	**1NA1 404-4WC10-0A.0**	1789	96.6	0,90	1060	5872	2,70	15.6	2600	470	5061	95.2	0,89	170	4577	92.4	0,88	80	4416	88.0	0,89
1070	940	**1NA1 404-4WC10-0C.0**	1787	96.6	0,89	1040	5718	2,50	19.8	2600	460	4928	95.3	0,88	165	4457	92.5	0,88	75	4300	87.7	0,88
1200	1060	**1NA1 406-4WC10-0A.0**	1790	96.7	0,90	1160	6402	3,00	17.4	2600	515	5517	95.3	0,89	185	4990	92.8	0,88	85	4814	88.7	0,88
1200	1060	**1NA1 406-4WC10-0C.0**	1788	96.7	0,89	1160	6409	2,60	22.0	2600	515	5522	95.5	0,89	185	4994	92.9	0,88	85	4818	88.5	0,88
1300	1150	**1NA1 408-4WC10-0A.0**	1791	96.8	0,91	1240	6931	3,30	19.7	2600	560	5974	95.3	0,89	200	5403	93.1	0,88	95	5212	89.5	0,88
1300	1150	**1NA1 408-4WC10-0C.0**	1789	96.9	0,90	1240	6939	2,90	24.9	2600	560	5978	95.6	0,89	200	5406	93.3	0,88	95	5216	89.5	0,88
1510	1330	**1NA1 454-4WC10-0C.0**	1790	96.9	0,89	1460	8056	2,50	33.9	2400	650	6943	95.9	0,88	230	6279	93.4	0,87	110	6057	89.5	0,87
1550	1370	**1NA1 454-4WC10-0A.0**	1790	96.9	0,90	1480	8269	2,70	26.4	2400	665	7126	95.8	0,89	240	6445	93.3	0,88	115	6218	89.3	0,88
1700	1500	**1NA1 456-4WC10-0C.0**	1790	97.1	0,90	1620	9069	2,50	39.0	2400	730	7815	96.1	0,89	260	7068	93.8	0,88	125	6819	90.0	0,88

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SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - VSD const torque																						
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1700	1500	**1NA1 456-4WC10-0A.0**	1790	97.1	0,91	1600	9069	2,80	30.4	2400	730	7816	96.0	0,90	260	7069	93.7	0,88	125	6819	90.0	0,89
1850	1630	**1NA1 458-4WC10-0C.0**	1791	97.2	0,89	1780	9864	2,60	42.8	2400	795	8501	96.3	0,88	285	7688	94.3	0,87	135	7417	90.9	0,87
1850	1630	**1NA1 458-4WC10-0A.0**	1791	97.2	0,90	1760	9864	2,90	33.5	2400	795	8502	96.2	0,89	285	7689	94.1	0,88	135	7418	90.8	0,88
1810	1600	**1NA1 504-4WC10-0A.0**	1788	96.5	0,88	1780	9667	2,30	32.5	2200	775	8334	95.5	0,89	280	7537	92.7	0,88	130	7271	88.2	0,88
1780	1570	**1NA1 504-4WC10-0C.0**	1789	96.6	0,87	1780	9501	1,90	42.4	2200	765	8189	95.6	0,87	275	7406	92.9	0,87	130	7145	88.4	0,87
2170	1910	**1NA1 506-4WC10-0A.0**	1790	96.8	0,88	2150	11577	2,50	37.1	2200	930	9981	95.7	0,88	335	9027	93.3	0,87	160	8709	89.5	0,88
2160	1900	**1NA1 506-4WC10-0C.0**	1790	96.9	0,87	2150	11523	2,00	48.0	2200	930	9928	95.9	0,87	330	8978	93.6	0,86	155	8662	89.8	0,87
2260	1990	**1NA1 508-4WC10-0A.0**	1790	96.9	0,90	2150	12057	2,70	42.4	2200	970	10393	95.7	0,90	345	9399	93.3	0,89	165	9068	89.5	0,89
2250	1980	**1NA1 508-4WC10-0C.0**	1791	96.9	0,88	2200	11997	2,10	54.6	2200	965	10345	95.9	0,88	345	9355	93.6	0,88	165	9026	89.8	0,88
2550	2250	**1NA1 564-4WC10-0A.0**	1791	97.1	0,88	2500	13596	2,30	59.9	2000	1095	11713	96.2	0,88	395	10593	93.8	0,87	185	10220	89.9	0,88
2520	2220	**1NA1 564-4WC10-0C.0**	1791	97.1	0,87	2500	13436	2,00	79.4	2000	1085	11577	96.2	0,87	390	10470	93.8	0,86	185	10101	89.9	0,87
2620	2310	**1NA1 566-4WC10-0A.0**	1791	97.1	0,89	2550	13969	2,30	66.7	2000	1125	12041	96.2	0,89	405	10890	93.8	0,88	190	10506	89.8	0,89
2620	2310	**1NA1 566-4WC10-0C.0**	1791	97.1	0,88	2550	13969	2,00	88.0	2000	1125	12039	96.2	0,88	405	10888	93.7	0,88	190	10504	89.7	0,88
3000	2640	**1NA1 568-4WC10-0C.0**	1793	97.3	0,90	2850	15978	2,60	96.7	2000	1290	13769	96.3	0,89	465	12452	94.1	0,88	220	12014	90.6	0,88
3000	2640	**1NA1 568-4WC10-0A.0**	1793	97.2	0,90	2850	15978	3,00	73.4	2000	1290	13769	96.1	0,89	465	12452	94.0	0,88	220	12014	90.5	0,88
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - const torque drive																						
280	250	**1NA1 311-6WC10-0AG0**	1192	95.2	0,84	295	2243	2,80	5.8	3100	120	1933	92.4	0,81	45	1748	87.8	0,81	20	1686	81.1	0,82
340	300	**1NA1 313-6WC10-0AG0**	1193	95.5	0,84	355	2722	3,10	7.0	3100	145	2344	92.5	0,80	50	2119	88.5	0,79	25	2045	82.6	0,81
400	350	**1NA1 315-6WC10-0AG0**	1191	95.6	0,86	405	3207	2,60	8.1	3100	170	2760	93.0	0,84	60	2496	88.9	0,84	30	2408	82.7	0,85
460	410	**1NA1 317-6WC10-0AG0**	1191	95.6	0,87	465	3688	2,60	8.8	3100	195	3170	93.1	0,84	70	2867	88.8	0,84	35	2766	82.6	0,85
600	530	**1NA1 351-6WC10-0AG0**	1193	95.8	0,86	610	4803	2,60	14.0	2000	255	4138	93.5	0,84	90	3743	89.6	0,83	45	3611	83.7	0,85
660	580	**1NA1 353-6WC10-0AG0**	1192	95.8	0,87	660	5287	2,40	15.4	2000	285	4554	93.6	0,85	100	4118	89.6	0,85	50	3973	83.6	0,86
750	660	**1NA1 355-6WC10-0AG0**	1192	95.9	0,87	750	6008	2,40	17.2	2000	320	5175	93.8	0,86	115	4680	89.9	0,86	55	4515	84.0	0,87
850	750	**1NA1 357-6WC10-0AG0**	1193	96.1	0,87	850	6804	2,60	19.3	2000	365	5862	93.8	0,85	130	5301	90.3	0,85	60	5114	84.9	0,86
1050	930	**1NA1 404-6WC10-0AG0**	1192	96.1	0,88	1040	8412	2,20	25.8	2400	450	7254	94.3	0,88	160	6560	90.5	0,88	75	6329	84.6	0,89
1020	900	**1NA1 404-6WC10-0CG0**	1190	96.1	0,87	1020	8185	1,90	33.2	2400	435	7053	94.6	0,87	155	6378	90.6	0,87	75	6154	84.3	0,88
1160	1020	**1NA1 406-6WC10-0AG0**	1192	96.3	0,89	1140	9293	2,40	29.6	2400	500	8006	94.5	0,88	180	7241	91.1	0,88	85	6986	85.9	0,89
1150	1010	**1NA1 406-6WC10-0CG0**	1191	96.3	0,87	1140	9221	2,10	38.0	2400	495	7949	94.9	0,87	175	7189	91.3	0,87	85	6935	85.6	0,88
1300	1150	**1NA1 408-6WC10-0AG0**	1193	96.4	0,89	1260	10406	2,90	33.5	2400	560	8970	94.5	0,87	200	8112	91.4	0,87	95	7826	86.7	0,87
1320	1160	**1NA1 408-6WC10-0CG0**	1193	96.6	0,88	1300	10566	2,40	41.9	2400	565	9110	95.1	0,87	200	8239	92.0	0,87	95	7948	87.2	0,87
1360	1200	**1NA1 454-6WC10-0A.0**	1192	96.5	0,86	1380	10895	2,40	39.5	2200	585	9396	94.8	0,85	210	8497	91.6	0,85	100	8198	86.4	0,86
1360	1200	**1NA1 454-6WC10-0C.0**	1191	96.5	0,86	1380	10904	2,10	49.1	2200	585	9401	95.0	0,85	210	8502	91.7	0,85	100	8202	86.3	0,86
1550	1370	**1NA1 456-6WC10-0C.0**	1191	96.7	0,86	1560	12428	2,10	56.8	2200	665	10710	95.3	0,85	235	9686	92.2	0,86	110	9344	87.3	0,86
1550	1370	**1NA1 456-6WC10-0A.0**	1192	96.7	0,87	1540	12417	2,40	45.8	2200	665	10706	95.1	0,86	240	9683	92.1	0,86	110	9341	87.3	0,86
1750	1540	**1NA1 458-6WC10-0C.0**	1191	96.8	0,87	1740	14031	2,00	67.0	2200	750	12098	95.3	0,86	270	10941	92.1	0,87	125	10556	87.1	0,87

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SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - VSD const torque																						
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1750	1540	**1NA1 458-6WC10-0A.0**	1192	96.7	0,88	1720	14020	2,30	54.3	2200	750	12088	95.1	0,87	270	10932	92.1	0,87	125	10547	87.2	0,88
1850	1630	**1NA1 502-6WC10-0A.0**	1187	96.3	0,81	1980	14883	1,50	52.8	2100	795	12826	95.0	0,84	280	11600	91.3	0,86	130	11191	85.5	0,87
1950	1720	**1NA1 502-6WC10-0C.0**	1190	96.6	0,83	2050	15648	1,40	67.5	2100	835	13494	95.5	0,86	300	12203	92.1	0,87	140	11773	86.6	0,88
2160	1910	**1NA1 504-6WC10-0A.0**	1189	96.6	0,83	2250	17348	1,70	59.7	2100	925	14953	95.2	0,85	330	13523	91.8	0,86	155	13046	86.2	0,86
2270	2000	**1NA1 504-6WC10-0C.0**	1191	96.8	0,85	2300	18201	1,50	76.1	2100	975	15684	95.7	0,86	350	14184	92.6	0,87	165	13684	87.7	0,88
2200	1940	**1NA1 506-6WC10-0A.0**	1190	96.6	0,85	2250	17654	1,70	67.3	2100	945	15221	95.2	0,86	335	13766	91.8	0,87	155	13280	86.4	0,87
2350	2070	**1NA1 506-6WC10-0C.0**	1192	96.8	0,85	2400	18826	1,50	85.6	2100	1010	16233	95.6	0,87	360	14681	92.5	0,88	170	14163	87.6	0,89
2605	2290	**1NA1 508-6WC10-0A.0**	1191	96.9	0,85	2650	20887	1,90	76.4	2100	1115	17987	95.4	0,86	395	16267	92.5	0,87	185	15693	88.0	0,87
2770	2440	**1NA1 508-6WC10-0C.0**	1193	97.1	0,86	2800	22172	1,70	96.7	2100	1190	19116	96.0	0,87	425	17288	93.3	0,88	200	16679	89.2	0,88
2840	2500	**1NA1 564-6WC10-0C.0**	1194	97.4	0,87	2800	22714	2,20	136.7	2000	1220	19584	96.1	0,88	435	17712	93.9	0,89	205	17087	90.3	0,89
2915	2570	**1NA1 566-6WC10-0C.0**	1193	97.3	0,87	2900	23333	2,10	151.9	2000	1250	20074	96.1	0,88	445	18154	93.7	0,89	210	17514	90.0	0,90
3110	2740	**1NA1 568-6WC10-0C.0**	1194	97.4	0,88	3050	24873	2,30	167.0	2000	1335	21434	96.1	0,88	480	19384	93.8	0,89	225	18701	90.3	0,89
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - const torque drive																						
850	750	**1NA1 404-8WC10-0AG0**	890	95.4	0,85	880	9120	1,90	26.7	2400	365	7870	92.8	0,84	130	7118	87.0	0,84	60	6867	78.4	0,85
800	710	**1NA1 404-8WC10-0CG0**	888	95.2	0,82	860	8603	1,70	32.8	2400	340	7416	92.8	0,83	120	6707	86.7	0,82	55	6471	77.4	0,83
920	810	**1NA1 406-8WC10-0AG0**	891	95.6	0,85	950	9860	2,10	30.6	2400	395	8501	93.0	0,85	140	7688	87.8	0,84	65	7417	80.1	0,85
900	790	**1NA1 406-8WC10-0CG0**	889	95.5	0,83	950	9667	1,80	37.6	2400	385	8334	93.0	0,83	135	7537	87.5	0,82	65	7271	79.2	0,84
1010	890	**1NA1 408-8WC10-0AG0**	891	95.8	0,85	1040	10825	2,10	33.8	2400	435	9334	93.3	0,85	155	8442	88.4	0,84	70	8144	80.9	0,85
1000	880	**1NA1 408-8WC10-0CG0**	889	95.7	0,84	1040	10742	1,80	41.5	2400	430	9262	93.3	0,83	150	8376	87.9	0,83	70	8081	79.8	0,84
1050	930	**1NA1 454-8WC10-0A.0**	890	95.6	0,80	1140	11266	1,70	40.0	2200	450	9711	93.4	0,81	160	8782	88.3	0,82	75	8473	80.4	0,83
1020	900	**1NA1 454-8WC10-0C.0**	888	95.5	0,80	1120	10969	1,80	48.8	2200	435	9460	93.4	0,81	155	8556	87.9	0,82	70	8254	79.1	0,82
1300	1150	**1NA1 456-8WC10-0A.0**	892	96.1	0,80	1420	13917	2,00	46.4	2200	555	12000	94.0	0,80	200	10853	89.8	0,80	90	10470	83.3	0,81
1300	1150	**1NA1 456-8WC10-0C.0**	890	96.0	0,80	1420	13948	2,00	56.4	2200	555	12023	94.0	0,80	195	10873	89.5	0,80	90	10490	82.4	0,82
1450	1280	**1NA1 458-8WC10-0C.0**	890	96.1	0,81	1560	15558	2,00	66.6	2200	620	13410	93.9	0,81	220	12128	89.4	0,82	100	11700	82.5	0,83
1460	1290	**1NA1 458-8WC10-0A.0**	892	96.2	0,82	1540	15630	1,90	54.9	2200	625	13484	93.9	0,82	220	12195	89.7	0,82	105	11765	83.2	0,83
1600	1410	**1NA1 504-8WC10-0A.0**	891	96.0	0,79	1760	17148	1,50	58.9	2100	685	14784	94.4	0,80	245	13370	90.5	0,80	115	12899	84.3	0,81
1600	1410	**1NA1 504-8WC10-0C.0**	892	96.1	0,84	1660	17129	1,80	75.7	2100	685	14767	94.5	0,84	245	13354	91.1	0,83	115	12884	85.6	0,84
1805	1590	**1NA1 506-8WC10-0C.0**	893	96.2	0,84	1860	19302	1,80	85.2	2100	775	16611	94.6	0,84	275	15022	91.3	0,83	130	14493	86.1	0,84
1800	1590	**1NA1 506-8WC10-0A.0**	891	96.1	0,79	1980	19292	1,50	66.4	2100	770	16633	94.5	0,80	275	15042	90.8	0,80	130	14512	84.9	0,81
2000	1760	**1NA1 508-8WC10-0A.0**	892	96.2	0,80	2150	21411	1,60	75.3	2100	860	18468	94.7	0,81	305	16702	91.0	0,81	140	16113	85.2	0,82
2100	1850	**1NA1 508-8WC10-0C.0**	892	96.2	0,84	2150	22482	1,60	96.4	2100	900	19390	94.7	0,84	320	17536	91.1	0,84	150	16917	85.3	0,85
2285	2010	**1NA1 564-8WC10-0C.0**	894	96.8	0,84	2350	24407	1,80	136.4	2000	980	21016	95.4	0,85	350	19006	92.4	0,85	165	18336	87.9	0,86
2530	2230	**1NA1 566-8WC10-0C.0**	894	97.0	0,84	2600	27024	2,10	151.7	2000	1085	23288	95.4	0,84	390	21061	92.8	0,84	185	20319	88.9	0,84
2800	2470	**1NA1 568-8WC10-0C.0**	893	96.9	0,84	2900	29942	1,70	167.0	2000	1200	25815	95.5	0,85	430	23346	92.4	0,86	200	22523	87.5	0,87

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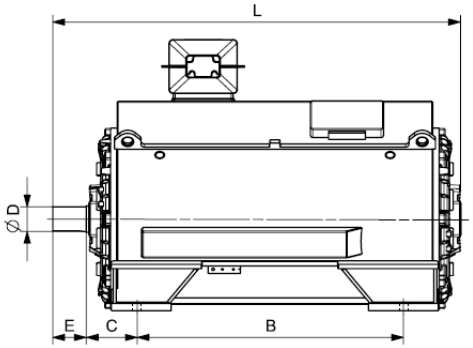

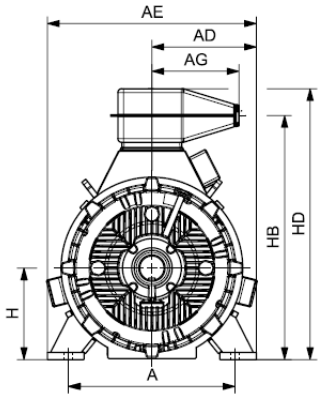

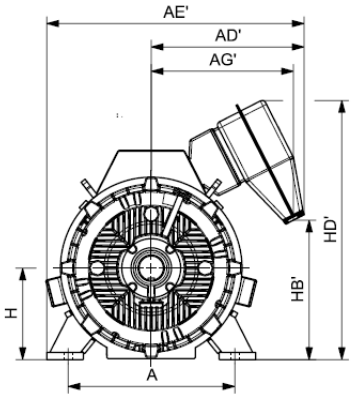

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 402-2WC10-0A.0	2600	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 402-2WC10-0C.0	2700	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 404-2WC10-0A.0	2800	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 404-2WC10-0C.0	2800	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 406-2WC10-0A.0	2900	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 406-2WC10-0C.0	3000	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 408-2WC10-0A.0	3100	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 408-2WC10-0C.0	3200	750	356	726	806	1176	356	529	1120	254	85	130	400	1044	583	1258	1225	1700	o.r.
1NA1 454-2WC10-0C.0	3800	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 456-2WC10-0C.0	4000	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 458-2WC10-0C.0	4200	850	356	754	871	1269	356	563	1250	254	95	130	450	1155	699	1369	1336	1900	o.r.
1NA1 504-2WC10-0CJ0	5100	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 506-2WC10-0CJ0	5500	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 508-2WC10-0CJ0	5800	950	371	870	936	1435	371	750	1320	475	110	165	500	1448	873	1613	1494	2290	o.r.
1NA1 566-2WC10-0CJ0	7100	1060	380	903	1015	1538	371	782	1400	560	120	165	560	1584	998	1749	1619	2577	o.r.
1NA1 568-2WC10-0CJ0	7400	1060	380	903	1015	1538	371	782	1400	560	120	165	560	1584	998	1749	1619	2577	o.r.
4-pole																			
1NA1 311-4WC10-0AG0	1300	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 313-4WC10-0AG0	1400	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 315-4WC10-0AG0	1500	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 317-4WC10-0AG0	1700	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 351-4WC10-0AG0	2000	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 353-4WC10-0AG0	2100	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.

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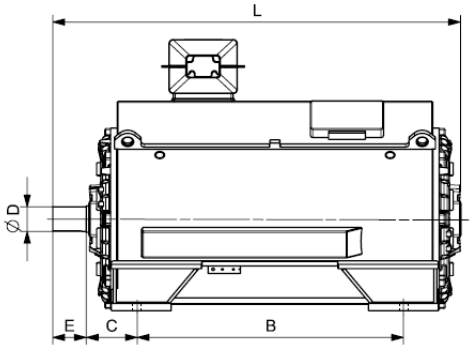

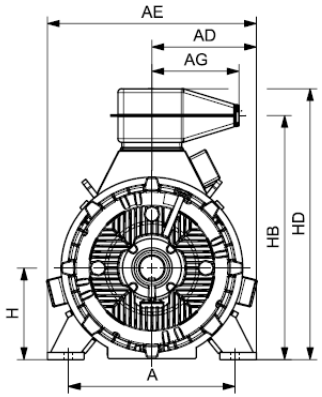

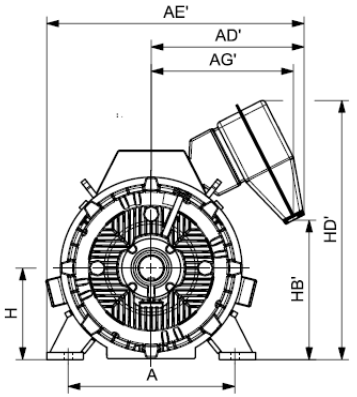

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 355-4WC10-0AG0	2200	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 357-4WC10-0AG0	2400	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 404-4WC10-0A.0	2800	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-4WC10-0C.0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-4WC10-0A.0	3000	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-4WC10-0C.0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-4WC10-0A.0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-4WC10-0C.0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-4WC10-0C.0	3900	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 454-4WC10-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-4WC10-0C.0	4300	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-4WC10-0A.0	4100	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-4WC10-0C.0	4600	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-4WC10-0A.0	4400	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 504-4WC10-0A.0	5100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-4WC10-0C.0	5300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-4WC10-0A.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-4WC10-0C.0	5800	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-4WC10-0A.0	6000	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-4WC10-0C.0	6300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-4WC10-0A.0	6900	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 564-4WC10-0C.0	7200	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-4WC10-0A.0	7400	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-4WC10-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.

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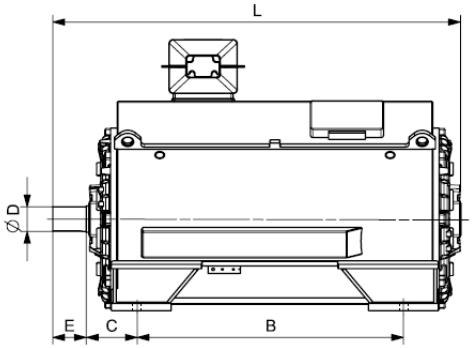

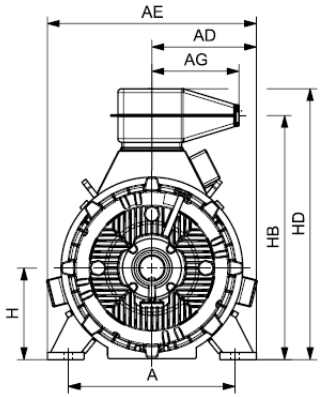

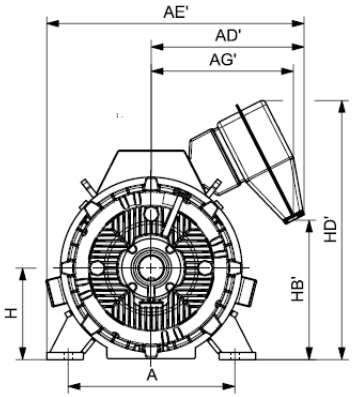

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 568-4WC10-0C.0	8200	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-4WC10-0A.0	7800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
6-pole																			
1NA1 311-6WC10-0AG0	1300	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 313-6WC10-0AG0	1500	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 315-6WC10-0AG0	1600	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 317-6WC10-0AG0	1700	560	356	510	696	850	356	306	850	180	85	130	315	876	-274	1090	770	1333	o.r.
1NA1 351-6WC10-0AG0	2000	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 353-6WC10-0AG0	2100	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 355-6WC10-0AG0	2200	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 357-6WC10-0AG0	2400	630	356	738	746	1128	356	544	1000	200	95	130	355	936	481	1150	1121	1546	o.r.
1NA1 404-6WC10-0AG0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-6WC10-0CG0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-6WC10-0AG0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-6WC10-0CG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-6WC10-0AG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-6WC10-0CG0	3600	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-6WC10-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 454-6WC10-0C.0	3900	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-6WC10-0C.0	4300	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-6WC10-0A.0	4100	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-6WC10-0C.0	4800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-6WC10-0A.0	4600	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 502-6WC10-0A.0	4900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.

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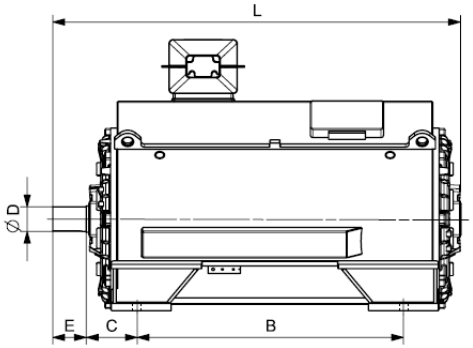

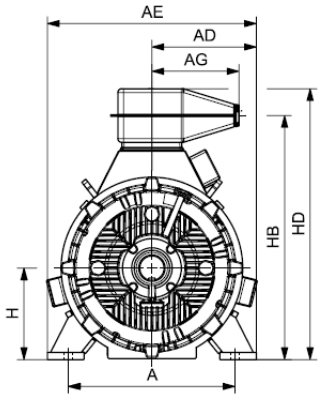

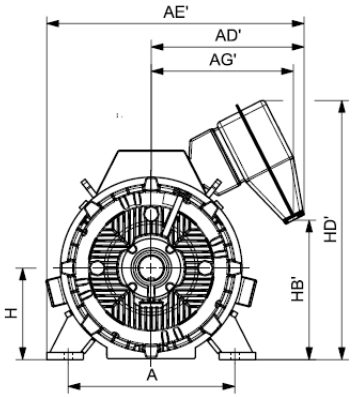

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 502-6WC10-0C.0	5100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-6WC10-0A.0	5300	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 504-6WC10-0C.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-6WC10-0A.0	5600	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-6WC10-0C.0	5900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-6WC10-0A.0	6200	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-6WC10-0C.0	6400	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-6WC10-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-6WC10-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-6WC10-0C.0	8800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
8-pole																			
1NA1 404-8WC10-0AG0	2900	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 404-8WC10-0CG0	3100	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-8WC10-0AG0	3200	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 406-8WC10-0CG0	3300	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-8WC10-0AG0	3400	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 408-8WC10-0CG0	3500	750	356	726	806	1176	356	529	1120	254	110	165	400	1044	583	1258	1225	1735	o.r.
1NA1 454-8WC10-0A.0	3700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 454-8WC10-0C.0	3800	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-8WC10-0A.0	4000	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 456-8WC10-0C.0	4200	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-8WC10-0C.0	4700	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 458-8WC10-0A.0	4500	850	356	754	871	1269	356	563	1250	280	120	165	450	1155	699	1369	1336	2030	o.r.
1NA1 504-8WC10-0A.0	5200	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.

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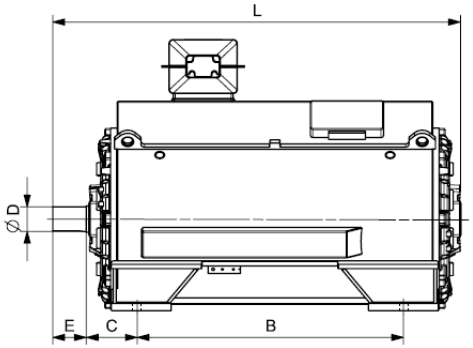

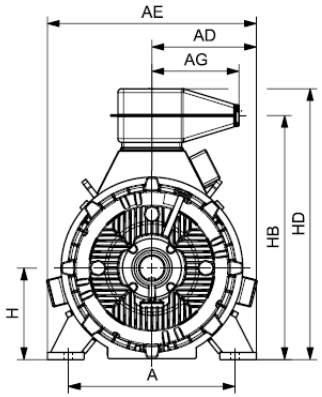

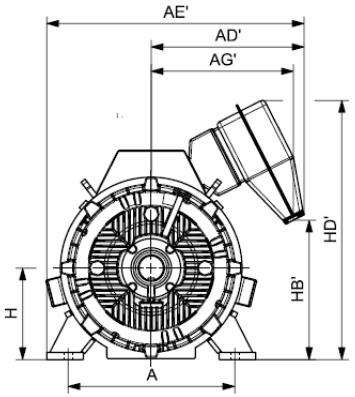

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 504-8WC10-0C.0	5500	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-8WC10-0C.0	5900	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 506-8WC10-0A.0	5600	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-8WC10-0A.0	6100	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 508-8WC10-0C.0	6400	950	371	870	936	1435	371	750	1320	315	140	200	500	1448	873	1613	1494	2175	o.r.
1NA1 564-8WC10-0C.0	7700	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 566-8WC10-0C.0	8300	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.
1NA1 568-8WC10-0C.0	8800	1060	380	903	1015	1538	371	782	1400	335	160	240	560	1584	998	1749	1619	2346	o.r.

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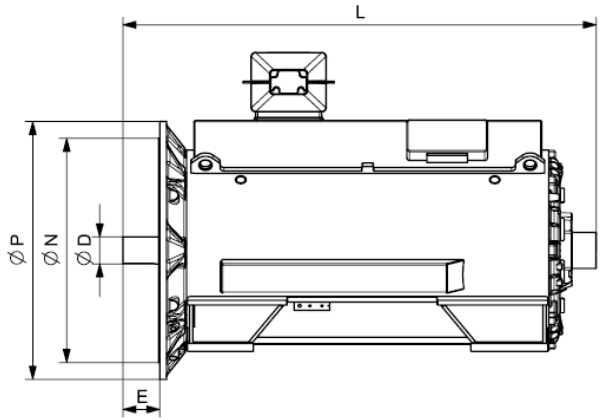

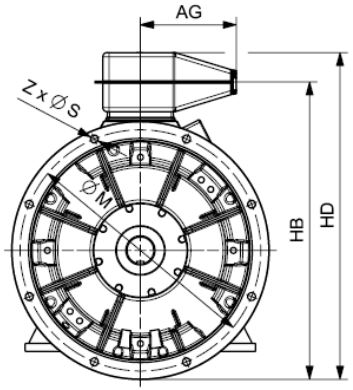

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 311-4WC18-0AG0	1300	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 313-4WC18-0AG0	1500	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 315-4WC18-0AG0	1600	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 317-4WC18-0AG0	1700	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 351-4WC18-0AG0	2100	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 353-4WC18-0AG0	2200	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 355-4WC18-0AG0	2300	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 357-4WC18-0AG0	2500	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 404-4WC18-0AG0	2900	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-4WC18-0CG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-4WC18-0AG0	3100	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-4WC18-0CG0	3200	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-4WC18-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-4WC18-0CG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-4WC18-0CG0	4100	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WC18-0AG0	3900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WC18-0CG0	4500	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WC18-0AG0	4300	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WC18-0CG0	4800	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WC18-0AG0	4500	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WC18-0AG0	5300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WC18-0CG0	5500	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16

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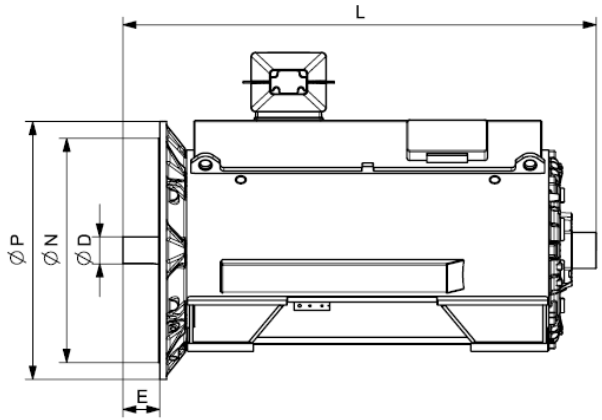

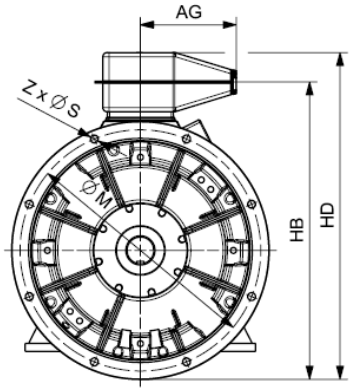

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 506-4WC18-0AG0	5700	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WC18-0CG0	5900	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WC18-0AG0	6200	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WC18-0CG0	6400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-4WC18-0AG0	7100	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WC18-0CG0	7400	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WC18-0AG0	7600	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WC18-0CG0	7900	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WC18-0CG0	8400	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WC18-0AG0	8000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
6-pole													
1NA1 311-6WC18-0AG0	1400	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 313-6WC18-0AG0	1500	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 315-6WC18-0AG0	1600	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 317-6WC18-0AG0	1700	756	356	85	961	1175	1333	o.r.	740	680	800	22	8
1NA1 351-6WC18-0AG0	2000	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 353-6WC18-0AG0	2200	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 355-6WC18-0AG0	2300	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 357-6WC18-0AG0	2500	806	356	95	1031	1245	1546	o.r.	840	780	900	22	8
1NA1 404-6WC18-0AG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-6WC18-0CG0	3200	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-6WC18-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-6WC18-0CG0	3400	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8

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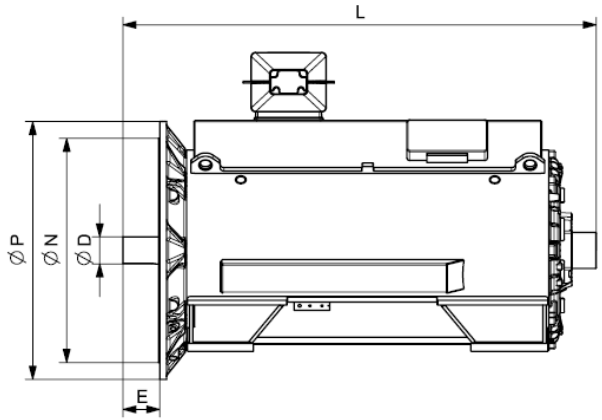

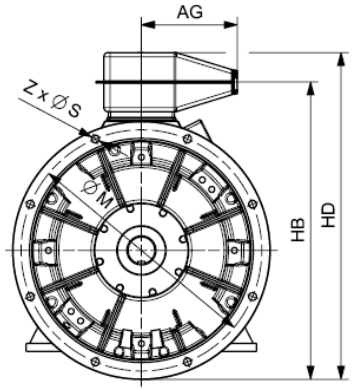

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 408-6WC18-0AG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-6WC18-0CG0	3700	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-6WC18-0AG0	3900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-6WC18-0CG0	4000	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WC18-0CG0	4400	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WC18-0AG0	4200	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WC18-0CG0	4900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WC18-0AG0	4700	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WC18-0AG0	5100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WC18-0CG0	5300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WC18-0AG0	5400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WC18-0CG0	5700	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WC18-0AG0	5800	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WC18-0CG0	6100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WC18-0AG0	6300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WC18-0CG0	6600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WC18-0CG0	8000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WC18-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WC18-0CG0	9000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 404-8WC18-0AG0	3000	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 404-8WC18-0CG0	3100	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 406-8WC18-0AG0	3300	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8

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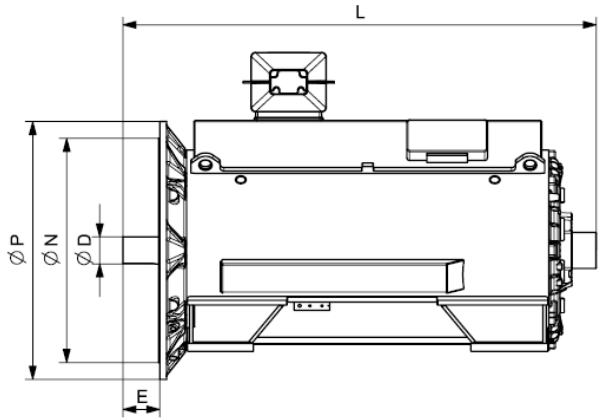

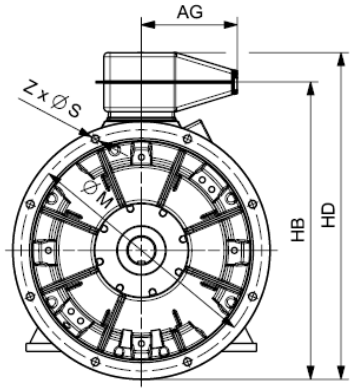

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 406-8WC18-0CG0	3400	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-8WC18-0AG0	3500	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 408-8WC18-0CG0	3600	856	356	110	1144	1358	1735	o.r.	940	880	1000	22	8
1NA1 454-8WC18-0AG0	3800	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WC18-0CG0	4000	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WC18-0AG0	4200	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WC18-0CG0	4400	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WC18-0CG0	4900	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WC18-0AG0	4700	931	356	120	1280	1494	2030	o.r.	1080	1000	1150	26	8
1NA1 504-8WC18-0AG0	5400	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WC18-0CG0	5600	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WC18-0CG0	6100	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WC18-0AG0	5800	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WC18-0AG0	6300	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WC18-0CG0	6500	996	371	140	1573	1738	2173	o.r.	1180	1120	1250	26	16
1NA1 564-8WC18-0CG0	7900	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WC18-0CG0	8500	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WC18-0CG0	9000	1080	371	160	1724	1889	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - const torque drive																						
	1100	**1NA1 454-2WR40-0A.0**	2983	97.0	0,90	174	3521	2,50	14.2	3600	425	2740	96.8	0,90	140	2266	94.7	0,88	65	2108	92.2	0,86
	1060	**1NA1 454-2WR40-0C.0**	2981	96.8	0,90	168	3396	2,20	18.4	3600	410	2645	96.6	0,90	135	2187	94.3	0,88	60	2034	91.6	0,86
	1200	**1NA1 456-2WR40-0A.0**	2984	97.2	0,91	188	3840	2,70	15.7	3600	465	2988	96.9	0,90	155	2470	94.8	0,89	70	2298	92.4	0,86
	1200	**1NA1 456-2WR40-0C.0**	2981	96.9	0,91	188	3844	2,30	20.2	3600	465	2993	96.7	0,90	155	2475	94.4	0,89	70	2302	91.8	0,86
	1320	**1NA1 458-2WR40-0A.0**	2986	97.3	0,92	205	4221	3,00	17.0	3600	510	3285	97.1	0,91	170	2716	94.9	0,89	80	2526	92.4	0,85
	1300	**1NA1 458-2WR40-0C.0**	2983	97.1	0,91	205	4162	2,50	21.9	3600	505	3239	96.9	0,90	165	2679	94.5	0,88	75	2492	91.9	0,86
	1650	**1NA1 504-2WR40-0AJ0**	2983	97.2	0,89	265	5282	2,50	22.6	3600	640	4113	97.0	0,90	210	3401	95.2	0,89	95	3163	93.0	0,87
	1650	**1NA1 504-2WR40-0C.0**	2984	97.1	0,89	265	5280	2,20	29.7	3000	640	4113	97.0	0,90	210	3401	95.2	0,89	95	3163	92.9	0,86
	1850	**1NA1 506-2WR40-0AJ0**	2983	97.3	0,90	295	5922	2,50	25.7	3600	720	4610	97.2	0,90	235	3812	95.3	0,89	110	3546	93.3	0,88
	1855	**1NA1 506-2WR40-0C.0**	2984	97.2	0,90	295	5936	2,20	33.3	3000	720	4611	97.2	0,90	235	3813	95.3	0,89	110	3546	93.2	0,87
	2120	**1NA1 508-2WR40-0AJ0**	2985	97.5	0,91	330	6782	2,90	28.1	3600	820	5278	97.3	0,91	270	4364	95.6	0,89	125	4060	93.5	0,87
	2120	**1NA1 508-2WR40-0C.0**	2986	97.4	0,90	335	6780	2,50	36.2	3000	825	5278	97.3	0,91	270	4364	95.6	0,89	125	4060	93.5	0,86
	2455	**1NA1 566-2WR40-0C.0**	2987	97.4	0,90	390	7849	2,10	55.3	3000	950	6099	97.5	0,91	315	5043	96.0	0,91	145	4691	94.2	0,89
	2775	**1NA1 568-2WR40-0C.0**	2988	97.6	0,91	435	8869	2,20	60.0	3000	1075	6891	97.6	0,91	355	5698	96.1	0,91	165	5300	94.4	0,89
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - const torque drive																						
	1250	**1NA1 454-4WR40-0A.0**	1490	96.7	0,86	210	8011	2,50	21.5	2400	535	6909	96.2	0,85	190	6248	92.9	0,83	90	6028	88.9	0,79
	1210	**1NA1 454-4WR40-0C.0**	1490	96.7	0,84	205	7755	2,20	27.6	2400	520	6687	96.2	0,84	185	6047	93.2	0,83	90	5834	89.6	0,79
	1370	**1NA1 456-4WR40-0A.0**	1490	96.8	0,87	225	8780	2,50	24.8	2400	590	7573	96.3	0,86	210	6849	93.1	0,84	100	6608	89.4	0,81
	1360	**1NA1 456-4WR40-0C.0**	1490	96.8	0,85	230	8716	2,10	31.7	2400	585	7518	96.3	0,85	210	6799	93.3	0,84	100	6559	89.9	0,81
	1550	**1NA1 458-4WR40-0A.0**	1491	97.0	0,86	260	9927	2,70	27.2	2400	665	8559	96.5	0,85	240	7741	93.6	0,83	115	7468	90.0	0,78
	1520	**1NA1 458-4WR40-0C.0**	1491	97.0	0,85	255	9735	2,30	34.8	2400	655	8392	96.5	0,84	235	7590	93.8	0,83	110	7322	90.6	0,79
	1605	**1NA1 504-4WR40-0A.0**	1490	96.8	0,87	265	10286	2,20	32.5	2200	685	8850	96.4	0,87	245	8003	93.6	0,86	115	7721	90.4	0,84
	1560	**1NA1 504-4WR40-0C.0**	1490	96.8	0,85	265	9998	1,80	42.4	2200	670	8621	96.4	0,85	240	7797	93.8	0,85	115	7522	90.9	0,84
	1800	**1NA1 506-4WR40-0A.0**	1490	97.0	0,88	295	11536	2,30	37.1	2200	770	9948	96.5	0,88	275	8996	93.9	0,87	130	8679	90.7	0,84
	1770	**1NA1 506-4WR40-0C.0**	1491	97.0	0,86	295	11336	1,90	48.0	2200	760	9775	96.6	0,86	270	8840	94.1	0,85	130	8528	91.3	0,84
	2000	**1NA1 508-4WR40-0A.0**	1491	97.1	0,89	320	12809	2,70	42.4	2200	860	11041	96.7	0,88	305	9985	94.3	0,87	145	9633	91.2	0,83
	2005	**1NA1 508-4WR40-0C.0**	1492	97.1	0,87	330	12833	2,10	54.6	2200	860	11043	96.8	0,87	310	9987	94.5	0,86	145	9635	91.7	0,84
	2255	**1NA1 562-4WR40-0C.0**	1491	97.3	0,84	385	14442	1,70	72.5	2000	965	12426	96.9	0,85	345	11238	94.5	0,84	165	10842	91.8	0,83
	2270	**1NA1 562-4WR40-0A.0**	1492	97.3	0,86	375	14529	2,00	54.5	2000	975	12530	96.9	0,86	350	11332	94.5	0,85	165	10932	91.7	0,83
	2550	**1NA1 564-4WR40-0A.0**	1492	97.4	0,87	420	16321	2,10	59.9	2000	1095	14068	97.1	0,87	390	12723	94.7	0,86	185	12274	91.9	0,83
	2510	**1NA1 564-4WR40-0C.0**	1492	97.5	0,86	415	16065	1,90	79.4	2000	1080	13852	97.1	0,86	385	12527	94.7	0,85	185	12086	92.2	0,83
	2810	**1NA1 566-4WR40-0A.0**	1492	97.5	0,88	455	17985	2,20	66.7	2000	1205	15499	97.2	0,88	430	14017	94.8	0,86	205	13523	92.1	0,84
	2800	**1NA1 566-4WR40-0C.0**	1492	97.6	0,87	460	17921	1,90	88.0	2000	1200	15448	97.2	0,87	430	13971	94.8	0,86	205	13478	92.4	0,84
	3105	**1NA1 568-4WR40-0A.0**	1493	97.6	0,89	495	19860	2,30	73.4	2000	1330	17104	97.3	0,88	475	15468	95.0	0,87	230	14923	92.3	0,83

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SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	3070	**1NA1 568-4WR40-0C.0**	1493	97.7	0,87	500	19636	2,00	96.7	2000	1320	16927	97.3	0,87	475	15309	95.1	0,86	225	14769	92.7	0,84
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - const torque drive																						
	950	**1NA1 454-6WR40-0A.0**	991	96.1	0,80	172	9154	1,80	31.8	2200	405	7894	95.2	0,80	145	7139	91.3	0,80	70	6887	86.7	0,78
	1000	**1NA1 454-6WR40-0C.0**	991	96.2	0,83	174	9636	1,80	41.0	2200	430	8309	95.2	0,83	150	7514	91.3	0,83	70	7249	86.8	0,81
	1070	**1NA1 456-6WR40-0A.0**	992	96.2	0,81	190	10300	1,80	36.9	2200	460	8887	95.3	0,81	165	8037	91.7	0,82	75	7754	87.3	0,79
	1100	**1NA1 456-6WR40-0C.0**	992	96.3	0,84	188	10589	1,90	47.3	2200	470	9132	95.4	0,84	170	8259	91.8	0,84	80	7968	87.5	0,82
	1250	**1NA1 458-6WR40-0A.0**	992	96.4	0,81	220	12033	1,80	43.6	2200	535	10384	95.6	0,82	190	9391	92.1	0,82	90	9060	88.0	0,80
	1270	**1NA1 458-6WR40-0C.0**	992	96.5	0,84	215	12225	1,90	55.7	2200	545	10540	95.7	0,84	195	9532	92.2	0,84	90	9196	88.3	0,82
	1260	**1NA1 502-6WR40-0A.0**	992	96.3	0,84	215	12129	2,00	52.8	2100	540	10463	95.2	0,85	190	9462	91.1	0,85	90	9129	86.4	0,84
	1320	**1NA1 502-6WR40-0C.0**	993	96.5	0,86	220	12694	1,70	67.5	2100	565	10942	95.5	0,87	200	9896	91.8	0,88	95	9547	87.5	0,86
	1410	**1NA1 504-6WR40-0A.0**	991	96.4	0,84	240	13587	1,80	59.7	2100	605	11722	95.3	0,85	215	10601	91.3	0,86	100	10227	86.9	0,86
	1500	**1NA1 504-6WR40-0C.0**	992	96.6	0,86	250	14439	1,60	76.1	2100	645	12447	95.6	0,87	230	11257	92.0	0,88	110	10860	88.0	0,88
	1650	**1NA1 506-6WR40-0A.0**	991	96.6	0,85	280	15899	1,90	67.3	2100	705	13710	95.6	0,85	250	12399	91.8	0,86	120	11962	87.7	0,85
	1750	**1NA1 506-6WR40-0C.0**	993	96.8	0,86	290	16829	1,70	85.6	2100	750	14512	96.0	0,87	270	13124	92.6	0,88	125	12661	88.9	0,87
	1865	**1NA1 508-6WR40-0A.0**	992	96.7	0,86	310	17953	2,00	76.4	2100	795	15458	95.8	0,86	285	13980	92.1	0,87	135	13487	88.1	0,85
	1950	**1NA1 508-6WR40-0C.0**	993	96.9	0,87	320	18752	1,80	96.7	2100	835	16160	96.2	0,87	300	14615	93.0	0,88	140	14100	89.4	0,87
	2175	**1NA1 564-6WR40-0C.0**	993	97.2	0,87	355	20916	2,00	136.7	2000	930	17994	96.7	0,88	335	16273	93.8	0,89	160	15699	90.7	0,87
	2445	**1NA1 566-6WR40-0C.0**	994	97.3	0,87	400	23489	2,00	151.9	2000	1045	20227	96.8	0,88	375	18293	94.1	0,89	180	17648	91.0	0,87
	2665	**1NA1 568-6WR40-0C.0**	994	97.4	0,88	430	25602	2,20	167.0	2000	1140	22029	97.0	0,88	410	19922	94.4	0,89	195	19220	91.5	0,86
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - const torque drive																						
	750	**1NA1 454-8WR40-0A.0**	742	95.7	0,78	140	9652	1,80	32.0	2200	320	8326	94.3	0,78	115	7530	89.1	0,79	55	7264	83.0	0,76
	780	**1NA1 454-8WR40-0C.0**	742	95.7	0,80	142	10038	1,70	41.1	2200	335	8654	94.4	0,81	120	7826	89.2	0,81	55	7551	83.3	0,78
	850	**1NA1 456-8WR40-0A.0**	742	95.8	0,79	156	10939	1,80	37.1	2200	365	9435	94.4	0,79	130	8533	89.3	0,80	60	8232	83.5	0,77
	900	**1NA1 456-8WR40-0C.0**	742	95.8	0,81	160	11583	1,70	47.4	2200	385	9986	94.5	0,81	135	9031	89.4	0,82	65	8712	83.6	0,79
	1000	**1NA1 458-8WR40-0A.0**	742	95.9	0,79	184	12870	1,70	43.9	2200	430	11104	94.6	0,80	150	10042	89.8	0,81	70	9688	84.2	0,78
	1010	**1NA1 458-8WR40-0C.0**	743	95.9	0,81	180	12981	1,70	55.9	2200	430	11200	94.7	0,81	155	10129	90.1	0,82	70	9772	84.7	0,79
	1120	**1NA1 504-8WR40-0A.0**	743	95.7	0,80	205	14395	1,60	58.9	2100	480	12427	94.4	0,80	170	11239	90.1	0,80	80	10843	84.9	0,79
	1160	**1NA1 504-8WR40-0C.0**	743	95.8	0,85	198	14909	1,80	75.7	2100	495	12850	94.6	0,84	175	11621	90.5	0,84	85	11212	85.4	0,82
	1240	**1NA1 506-8WR40-0A.0**	743	95.8	0,80	225	15937	1,70	66.4	2100	530	13758	94.5	0,81	190	12442	90.3	0,81	90	12004	85.2	0,79
	1280	**1NA1 506-8WR40-0C.0**	744	95.9	0,85	220	16429	1,90	85.2	2100	550	14175	94.8	0,85	195	12819	90.8	0,84	90	12367	85.8	0,82
	1400	**1NA1 508-8WR40-0A.0**	744	96.0	0,81	250	17969	1,90	75.3	2100	600	15508	94.9	0,81	215	14025	91.0	0,81	100	13531	85.9	0,78
	1450	**1NA1 508-8WR40-0C.0**	744	96.1	0,85	245	18611	2,10	96.4	2100	620	16046	95.0	0,84	220	14512	91.3	0,83	105	14000	86.5	0,80
	1680	**1NA1 564-8WR40-0C.0**	744	96.7	0,84	285	21563	1,80	136.4	2000	720	18601	95.9	0,85	255	16822	92.2	0,86	120	16229	88.2	0,84
	1880	**1NA1 566-8WR40-0C.0**	744	96.8	0,85	315	24130	1,90	151.7	2000	805	20800	96.1	0,85	285	18811	92.5	0,86	135	18148	88.7	0,83
	2050	**1NA1 568-8WR40-0C.0**	744	96.8	0,85	345	26312	1,80	167.0	2000	880	22688	96.1	0,86	315	20518	92.7	0,86	150	19795	88.9	0,84

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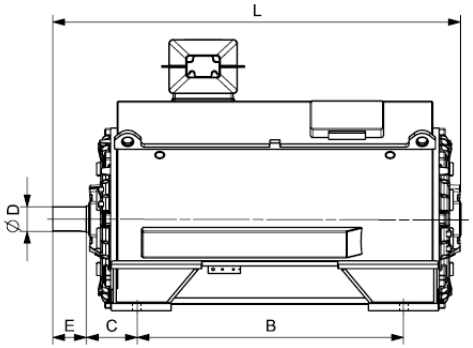

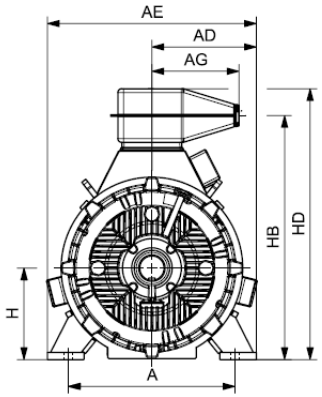

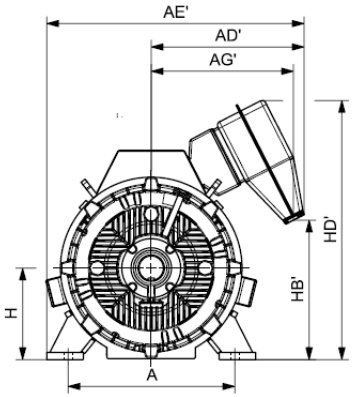

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2WR40-0A.0	3700	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 454-2WR40-0C.0	3900	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 456-2WR40-0A.0	4000	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 456-2WR40-0C.0	4100	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 458-2WR40-0A.0	4200	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 458-2WR40-0C.0	4400	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 504-2WR40-0AJ0	5000	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 504-2WR40-0C.0	5100	950	489	744	1054	1309	489	695	1320	280	110	165	500	1326	713	1457	1358	2049	o.r.
1NA1 506-2WR40-0AJ0	5400	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 506-2WR40-0C.0	5600	950	489	744	1054	1309	489	695	1320	280	110	165	500	1326	713	1457	1358	2049	o.r.
1NA1 508-2WR40-0AJ0	5700	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 508-2WR40-0C.0	5900	950	489	744	1054	1309	489	695	1320	280	110	165	500	1326	713	1457	1358	2049	o.r.
1NA1 566-2WR40-0C.0	7600	1060	489	777	1124	1412	489	728	1400	290	120	165	560	1462	838	1593	1483	2193	o.r.
1NA1 568-2WR40-0C.0	8000	1060	489	777	1124	1412	489	728	1400	290	120	165	560	1462	838	1593	1483	2193	o.r.
4-pole																			
1NA1 454-4WR40-0A.0	3800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-4WR40-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-4WR40-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-4WR40-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-4WR40-0A.0	4400	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-4WR40-0C.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 504-4WR40-0A.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-4WR40-0C.0	5300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.

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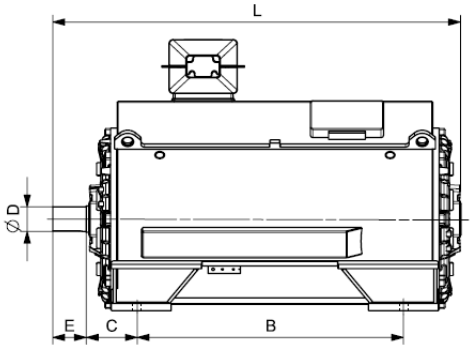

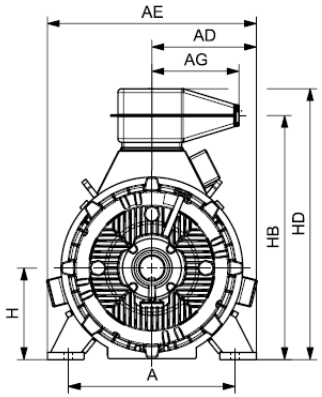

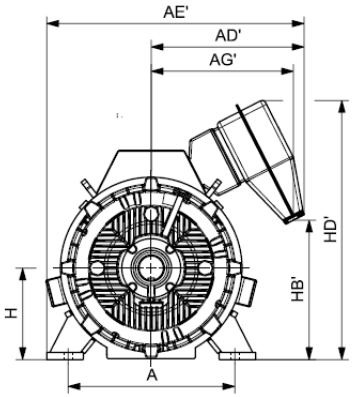

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 506-4WR40-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-4WR40-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-4WR40-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-4WR40-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 562-4WR40-0C.0	6900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 562-4WR40-0A.0	6600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 564-4WR40-0A.0	7000	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 564-4WR40-0C.0	7300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-4WR40-0A.0	7500	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-4WR40-0C.0	7800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-4WR40-0A.0	7900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-4WR40-0C.0	8300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
6-pole																			
1NA1 454-6WR40-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-6WR40-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-6WR40-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-6WR40-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-6WR40-0A.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-6WR40-0C.0	4800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 502-6WR40-0A.0	4800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 502-6WR40-0C.0	5000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-6WR40-0A.0	5200	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-6WR40-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-6WR40-0A.0	5600	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.

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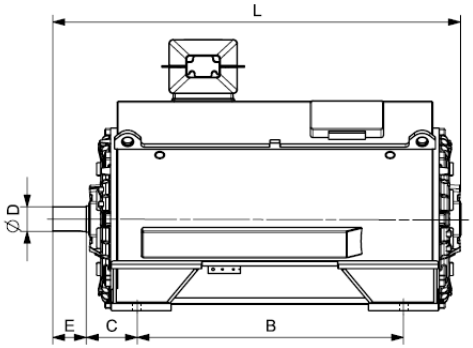

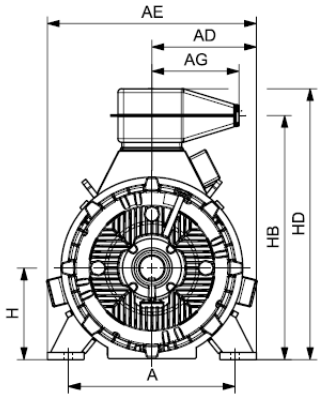

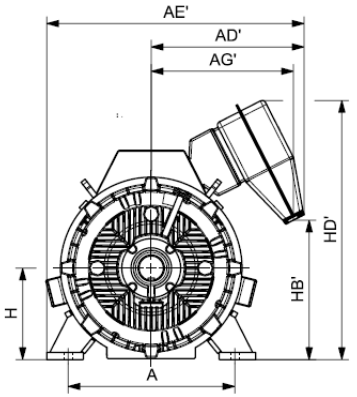

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 506-6WR40-0C.0	5900	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-6WR40-0A.0	6100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-6WR40-0C.0	6400	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 564-6WR40-0C.0	7700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-6WR40-0C.0	8300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-6WR40-0C.0	8800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
8-pole																			
1NA1 454-8WR40-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-8WR40-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-8WR40-0A.0	4000	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-8WR40-0C.0	4200	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-8WR40-0A.0	4500	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-8WR40-0C.0	4700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 504-8WR40-0A.0	5200	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-8WR40-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-8WR40-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-8WR40-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-8WR40-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-8WR40-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 564-8WR40-0C.0	7600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-8WR40-0C.0	8200	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-8WR40-0C.0	8700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.

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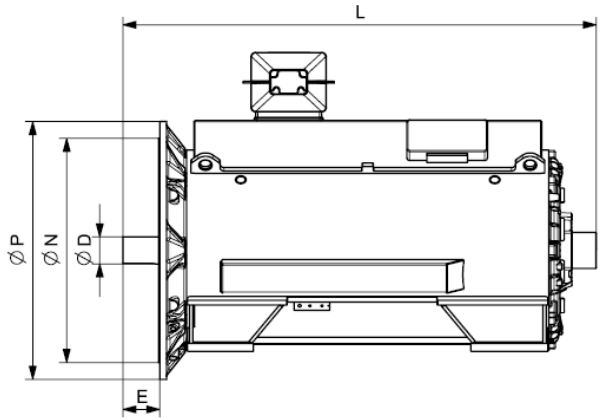

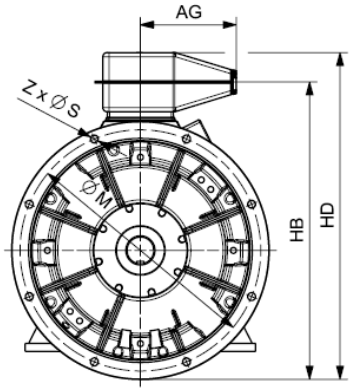

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 454-4WR48-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WR48-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WR48-0AG0	4300	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WR48-0CG0	4500	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WR48-0AG0	4600	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WR48-0CG0	4800	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WR48-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WR48-0CG0	5500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WR48-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WR48-0CG0	5900	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WR48-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WR48-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 562-4WR48-0CG0	7100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 562-4WR48-0AG0	6800	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WR48-0AG0	7200	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WR48-0CG0	7500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WR48-0AG0	7700	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WR48-0CG0	8100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WR48-0AG0	8100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WR48-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
6-pole													
1NA1 454-6WR48-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8

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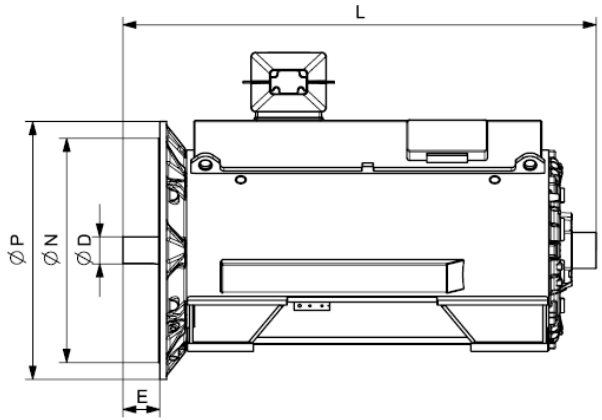

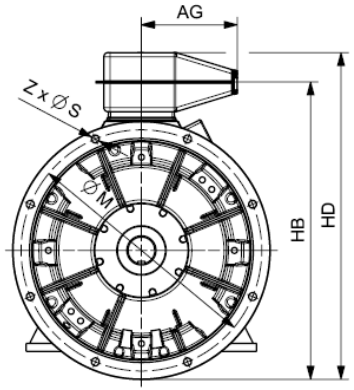

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 454-6WR48-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WR48-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WR48-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WR48-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WR48-0CG0	5000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WR48-0AG0	5000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WR48-0CG0	5200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WR48-0AG0	5400	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WR48-0CG0	5600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WR48-0AG0	5800	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WR48-0CG0	6100	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WR48-0AG0	6300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WR48-0CG0	6600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WR48-0CG0	8000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WR48-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WR48-0CG0	9100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 454-8WR48-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WR48-0CG0	4000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WR48-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WR48-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WR48-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WR48-0CG0	4900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8

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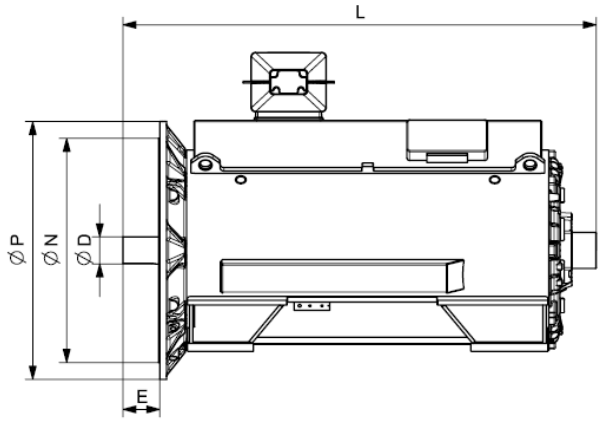

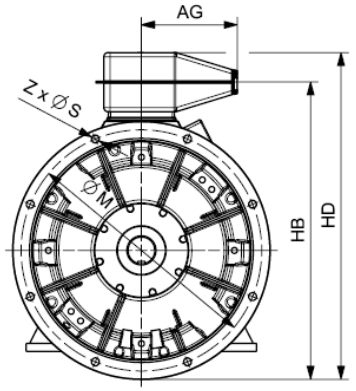

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-8WR48-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WR48-0CG0	5600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WR48-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WR48-0CG0	5900	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WR48-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WR48-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-8WR48-0CG0	7900	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WR48-0CG0	8400	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WR48-0CG0	9000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - const torque drive																						
	1250	**1NA1 454-2WR30-0C.0**	3581	96.9	0,90	198	3333	2,20	18.7	3600	485	2595	96.8	0,89	160	2146	94.9	0,87	75	1996	92.7	0,84
	1400	**1NA1 456-2WR30-0C.0**	3583	97.0	0,90	225	3731	2,40	20.6	3600	545	2904	97.0	0,90	180	2401	95.1	0,87	80	2234	92.9	0,83
	1550	**1NA1 458-2WR30-0C.0**	3584	97.2	0,91	245	4130	2,60	22.3	3600	600	3214	97.1	0,90	200	2657	95.2	0,87	90	2472	92.9	0,80
	1870	**1NA1 504-2WR30-0CJ0**	3584	97.1	0,89	300	4982	2,30	28.9	3600	725	3879	97.2	0,90	240	3208	95.5	0,89	110	2984	93.5	0,86
	2155	**1NA1 506-2WR30-0CJ0**	3584	97.3	0,90	340	5742	2,30	32.6	3600	835	4460	97.3	0,91	275	3687	95.5	0,89	125	3430	93.7	0,87
	2350	**1NA1 508-2WR30-0CJ0**	3587	97.4	0,90	370	6256	2,60	35.6	3600	915	4869	97.4	0,91	300	4026	95.8	0,88	140	3745	93.9	0,85
	2805	**1NA1 566-2WR30-0CJ0**	3587	97.4	0,91	440	7467	2,10	54.6	3600	1090	5804	97.5	0,91	360	4799	96.2	0,91	165	4464	94.7	0,89
	3105	**1NA1 568-2WR30-0CJ0**	3587	97.5	0,91	485	8266	2,20	59.3	3600	1205	6423	97.7	0,91	395	5311	96.3	0,91	185	4940	94.9	0,89
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - const torque drive																						
	1460	**1NA1 454-4WR30-0A.0**	1791	96.9	0,85	245	7784	2,60	21.5	2400	625	6714	96.5	0,84	225	6072	93.8	0,82	105	5858	90.4	0,76
	1450	**1NA1 454-4WR30-0C.0**	1791	96.9	0,84	245	7731	2,10	27.6	2400	625	6666	96.5	0,83	225	6029	94.0	0,82	105	5816	91.0	0,78
	1650	**1NA1 456-4WR30-0A.0**	1791	97.0	0,86	275	8798	2,60	24.8	2400	710	7586	96.7	0,85	255	6861	94.0	0,83	120	6619	90.8	0,77
	1620	**1NA1 456-4WR30-0C.0**	1791	97.1	0,85	270	8638	2,20	31.7	2400	695	7445	96.7	0,84	250	6733	94.2	0,82	120	6496	91.4	0,78
	1770	**1NA1 458-4WR30-0A.0**	1792	97.1	0,87	290	9432	2,80	27.2	2400	760	8133	96.8	0,86	275	7355	94.2	0,83	130	7096	91.1	0,77
	1770	**1NA1 458-4WR30-0C.0**	1792	97.1	0,86	295	9432	2,30	34.8	2400	760	8136	96.8	0,85	275	7358	94.5	0,83	130	7099	91.7	0,79
	1750	**1NA1 504-4WR30-0A.0**	1791	96.9	0,88	285	9331	2,40	32.5	2200	750	8045	96.7	0,87	270	7276	94.3	0,86	130	7019	91.6	0,83
	1750	**1NA1 504-4WR30-0C.0**	1791	96.9	0,85	295	9331	1,90	42.4	2200	750	8045	96.7	0,86	270	7276	94.5	0,85	130	7019	92.1	0,84
	2015	**1NA1 506-4WR30-0A.0**	1791	97.0	0,88	330	10744	2,60	37.1	2200	865	9241	96.8	0,88	310	8357	94.5	0,86	150	8062	91.8	0,82
	2010	**1NA1 506-4WR30-0C.0**	1792	97.1	0,86	335	10711	2,10	48.0	2200	865	9233	96.9	0,86	310	8350	94.8	0,85	150	8056	92.4	0,83
	2175	**1NA1 508-4WR30-0A.0**	1791	97.1	0,89	350	11597	2,60	42.4	2200	930	9977	96.9	0,89	335	9023	94.8	0,87	160	8705	92.3	0,84
	2175	**1NA1 508-4WR30-0C.0**	1792	97.2	0,87	355	11590	2,10	54.6	2200	935	9974	97.0	0,87	335	9021	95.0	0,86	160	8703	92.7	0,84
	2505	**1NA1 562-4WR30-0C.0**	1791	97.3	0,85	420	13356	1,70	72.5	2000	1075	11493	97.1	0,86	385	10394	95.0	0,85	185	10027	92.8	0,84
	2550	**1NA1 562-4WR30-0A.0**	1791	97.3	0,86	425	13596	2,00	54.5	2000	1095	11718	97.1	0,86	395	10597	95.0	0,86	190	10224	92.6	0,84
	2800	**1NA1 564-4WR30-0A.0**	1792	97.4	0,87	460	14921	2,10	59.9	2000	1205	12862	97.2	0,87	430	11632	95.1	0,86	205	11222	92.8	0,84
	2770	**1NA1 564-4WR30-0C.0**	1792	97.5	0,86	460	14761	1,80	79.4	2000	1190	12728	97.2	0,87	425	11511	95.1	0,86	205	11105	93.0	0,84
	3100	**1NA1 566-4WR30-0A.0**	1792	97.5	0,88	500	16519	2,20	66.7	2000	1330	14234	97.3	0,88	480	12873	95.1	0,87	230	12419	92.8	0,84
	3050	**1NA1 566-4WR30-0C.0**	1792	97.6	0,87	500	16253	1,90	88.0	2000	1310	14007	97.3	0,87	470	12667	95.2	0,86	225	12221	93.1	0,84
	3405	**1NA1 568-4WR30-0A.0**	1793	97.7	0,89	540	18135	2,40	73.4	2000	1460	15614	97.4	0,88	525	14121	95.0	0,86	250	13623	92.7	0,83
	3400	**1NA1 568-4WR30-0C.0**	1793	97.7	0,88	550	18108	2,10	96.7	2000	1460	15605	97.4	0,88	525	14112	95.2	0,86	250	13615	93.1	0,83
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - const torque drive																						
	1070	**1NA1 454-6WR30-0A.0**	1191	96.3	0,80	192	8579	1,70	31.8	2200	460	7400	95.6	0,81	165	6692	92.2	0,81	80	6456	88.4	0,79
	1100	**1NA1 454-6WR30-0C.0**	1191	96.4	0,84	188	8820	1,80	41.0	2200	470	7604	95.6	0,84	170	6877	92.3	0,84	80	6635	88.5	0,82
	1250	**1NA1 456-6WR30-0A.0**	1192	96.5	0,80	225	10014	1,80	36.9	2200	535	8634	95.9	0,81	190	7809	92.8	0,81	90	7533	89.1	0,77
	1270	**1NA1 456-6WR30-0C.0**	1192	96.6	0,84	215	10174	2,00	47.3	2200	545	8774	95.9	0,84	195	7935	93.0	0,83	95	7655	89.4	0,80

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SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	1460	**1NA1 458-6WR30-0A.0**	1192	96.7	0,81	260	11696	1,90	43.6	2200	625	10081	96.1	0,82	225	9117	93.3	0,81	105	8796	89.8	0,78
	1500	**1NA1 458-6WR30-0C.0**	1193	96.8	0,84	255	12007	2,00	55.7	2200	645	10359	96.2	0,84	230	9369	93.3	0,84	110	9038	90.0	0,80
	1500	**1NA1 502-6WR30-0A.0**	1190	96.5	0,82	265	12037	1,70	52.8	2100	645	10378	95.7	0,84	230	9386	92.2	0,85	110	9055	88.4	0,84
	1560	**1NA1 502-6WR30-0C.0**	1192	96.8	0,85	265	12497	1,60	67.5	2100	670	10773	96.0	0,86	240	9743	93.0	0,87	115	9399	89.6	0,86
	1700	**1NA1 504-6WR30-0A.0**	1191	96.7	0,84	290	13630	1,80	59.7	2100	730	11757	95.9	0,85	260	10633	92.4	0,86	125	10258	88.8	0,85
	1760	**1NA1 504-6WR30-0C.0**	1193	96.9	0,86	295	14088	1,60	76.1	2100	755	12150	96.2	0,87	270	10988	93.2	0,88	130	10601	90.0	0,87
	1850	**1NA1 506-6WR30-0A.0**	1192	96.8	0,85	310	14821	2,00	67.3	2100	795	12778	96.0	0,86	285	11556	92.7	0,86	135	11149	89.1	0,85
	1910	**1NA1 506-6WR30-0C.0**	1194	97.0	0,87	315	15276	1,80	85.6	2100	820	13171	96.3	0,87	295	11912	93.4	0,88	140	11492	90.2	0,86
	2055	**1NA1 508-6WR30-0A.0**	1192	96.9	0,86	340	16463	2,00	76.4	2100	880	14168	96.1	0,86	315	12813	93.0	0,87	150	12361	89.4	0,85
	2150	**1NA1 508-6WR30-0C.0**	1194	97.1	0,87	355	17195	1,80	96.7	2100	925	14824	96.4	0,88	330	13407	93.6	0,88	160	12934	90.4	0,87
	2435	**1NA1 564-6WR30-0C.0**	1193	97.3	0,87	400	19491	2,00	136.7	2000	1045	16771	97.0	0,88	375	15167	94.5	0,89	180	14632	91.9	0,88
	2655	**1NA1 566-6WR30-0C.0**	1194	97.4	0,87	435	21234	2,00	151.9	2000	1140	18285	97.1	0,88	410	16536	94.7	0,89	195	15953	92.2	0,87
	2925	**1NA1 568-6WR30-0C.0**	1195	97.5	0,88	475	23374	2,30	167.0	2000	1255	20124	97.3	0,88	450	18199	94.9	0,88	215	17558	92.5	0,86
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - const torque drive																						
	900	**1NA1 454-8WR30-0A.0**	892	96.0	0,78	166	9635	1,70	32.0	2200	385	8311	94.9	0,78	135	7516	90.6	0,79	65	7252	85.4	0,75
	920	**1NA1 454-8WR30-0C.0**	893	96.1	0,80	166	9838	1,80	41.1	2200	395	8488	95.0	0,80	140	7676	90.8	0,80	65	7406	85.7	0,77
	1000	**1NA1 456-8WR30-0A.0**	892	96.1	0,79	182	10705	1,70	37.1	2200	430	9239	95.0	0,79	150	8355	90.7	0,80	70	8061	85.9	0,77
	1050	**1NA1 456-8WR30-0C.0**	892	96.1	0,81	188	11241	1,60	47.4	2200	450	9694	95.0	0,81	160	8767	90.8	0,82	75	8458	85.9	0,79
	1200	**1NA1 458-8WR30-0A.0**	892	96.3	0,79	220	12847	1,80	43.9	2200	515	11079	95.3	0,79	185	10020	91.4	0,79	85	9667	86.7	0,76
	1210	**1NA1 458-8WR30-0C.0**	893	96.4	0,81	215	12939	1,80	55.9	2200	520	11162	95.5	0,81	185	10095	91.6	0,81	90	9739	87.1	0,77
	1240	**1NA1 504-8WR30-0A.0**	893	96.0	0,80	225	13260	1,70	58.9	2100	530	11438	95.0	0,81	190	10344	91.4	0,80	90	9979	86.9	0,78
	1290	**1NA1 504-8WR30-0C.0**	894	96.1	0,85	220	13779	1,90	75.7	2100	555	11884	95.1	0,84	195	10747	91.7	0,84	95	10369	87.3	0,81
	1400	**1NA1 506-8WR30-0A.0**	893	96.2	0,81	250	14971	1,70	66.4	2100	600	12910	95.2	0,81	215	11676	91.7	0,81	100	11264	87.4	0,78
	1430	**1NA1 506-8WR30-0C.0**	894	96.2	0,85	245	15275	2,00	85.2	2100	615	13177	95.3	0,85	220	11917	92.0	0,84	105	11497	87.9	0,81
	1500	**1NA1 508-8WR30-0A.0**	893	96.2	0,81	265	16040	1,70	75.3	2100	645	13842	95.2	0,82	230	12519	91.5	0,82	110	12077	87.4	0,80
	1560	**1NA1 508-8WR30-0C.0**	894	96.3	0,85	265	16663	1,90	96.4	2100	670	14374	95.3	0,85	240	12999	91.7	0,84	115	12541	87.7	0,83
	1820	**1NA1 564-8WR30-0C.0**	894	96.8	0,85	305	19440	1,80	136.4	2000	780	16764	96.2	0,86	280	15161	93.0	0,86	135	14626	89.5	0,84
	2085	**1NA1 566-8WR30-0C.0**	894	96.9	0,85	350	22271	1,90	151.7	2000	895	19160	96.4	0,86	320	17328	93.3	0,86	150	16717	90.0	0,83
	2370	**1NA1 568-8WR30-0C.0**	894	97.0	0,85	400	25315	1,80	167.0	2000	1015	21823	96.5	0,86	365	19736	93.5	0,86	175	19040	90.4	0,84

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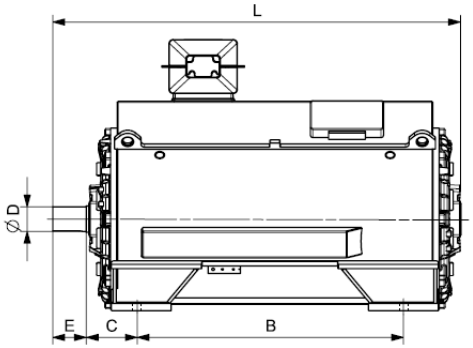

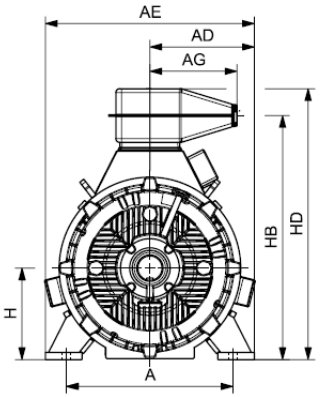

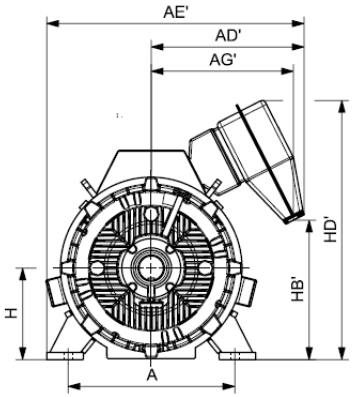

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NA1 454-2WR30-0C.0	3900	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 456-2WR30-0C.0	4100	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 458-2WR30-0C.0	4400	850	489	714	1004	1229	489	665	1250	254	95	130	450	1202	602	1333	1247	1900	o.r.
1NA1 504-2WR30-0CJ0	5100	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 506-2WR30-0CJ0	5600	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 508-2WR30-0CJ0	5800	950	489	744	1054	1309	489	695	1320	475	110	165	500	1326	713	1457	1358	2290	o.r.
1NA1 566-2WR30-0CJ0	7300	1060	489	777	1124	1412	489	728	1400	560	120	165	560	1462	838	1593	1483	2577	o.r.
1NA1 568-2WR30-0CJ0	7800	1060	489	777	1124	1412	489	728	1400	560	120	165	560	1462	838	1593	1483	2577	o.r.
4-pole																			
1NA1 454-4WR30-0A.0	3800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-4WR30-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-4WR30-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-4WR30-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-4WR30-0A.0	4400	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-4WR30-0C.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 504-4WR30-0A.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-4WR30-0C.0	5300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-4WR30-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-4WR30-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-4WR30-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-4WR30-0C.0	6200	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 562-4WR30-0C.0	6900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 562-4WR30-0A.0	6600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.

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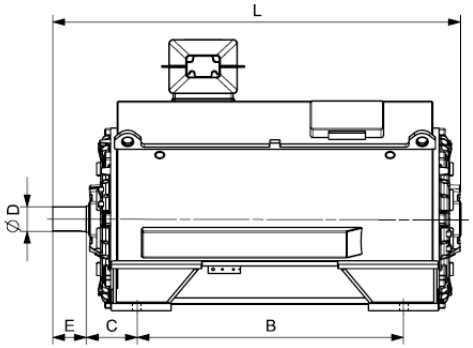

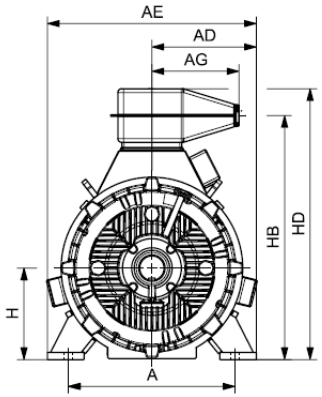

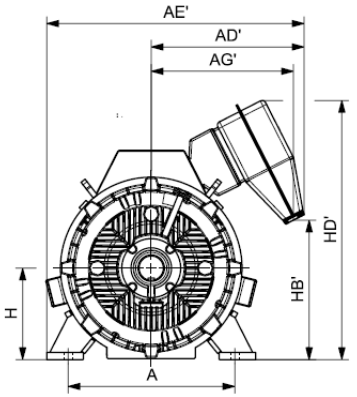

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NA1 564-4WR30-0A.0	7000	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 564-4WR30-0C.0	7300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-4WR30-0A.0	7400	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-4WR30-0C.0	7800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-4WR30-0A.0	8000	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-4WR30-0C.0	8400	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
6-pole																			
1NA1 454-6WR30-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-6WR30-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-6WR30-0A.0	4100	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-6WR30-0C.0	4300	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-6WR30-0A.0	4600	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-6WR30-0C.0	4800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 502-6WR30-0A.0	4900	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 502-6WR30-0C.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-6WR30-0A.0	5200	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-6WR30-0C.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-6WR30-0A.0	5600	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-6WR30-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-6WR30-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-6WR30-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 564-6WR30-0C.0	7700	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-6WR30-0C.0	8300	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-6WR30-0C.0	8900	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.

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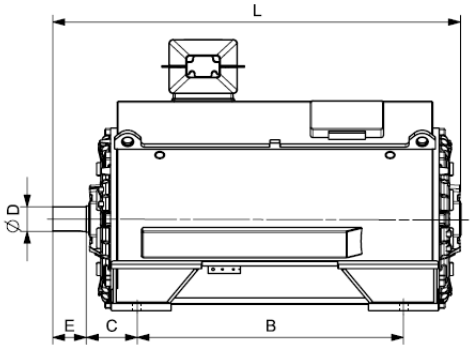

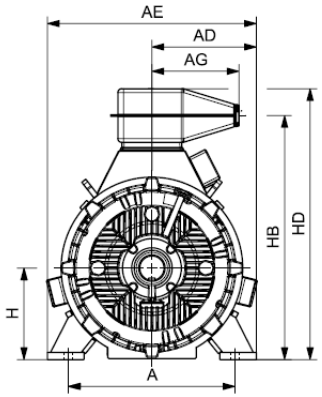

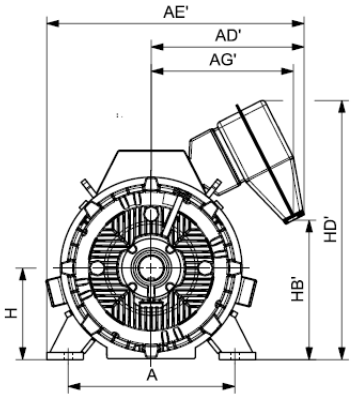

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
8-pole																			
1NA1 454-8WR30-0A.0	3700	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 454-8WR30-0C.0	3900	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-8WR30-0A.0	4000	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 456-8WR30-0C.0	4200	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-8WR30-0A.0	4500	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 458-8WR30-0C.0	4800	850	489	714	1004	1229	489	665	1250	280	120	165	450	1202	602	1333	1247	2030	o.r.
1NA1 504-8WR30-0A.0	5100	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 504-8WR30-0C.0	5400	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-8WR30-0A.0	5500	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 506-8WR30-0C.0	5800	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-8WR30-0A.0	6000	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 508-8WR30-0C.0	6300	950	489	744	1054	1309	489	695	1320	315	140	200	500	1326	713	1457	1358	2175	o.r.
1NA1 564-8WR30-0C.0	7600	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 566-8WR30-0C.0	8200	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.
1NA1 568-8WR30-0C.0	8800	1060	489	777	1124	1412	489	728	1400	335	160	240	560	1462	838	1593	1483	2346	o.r.

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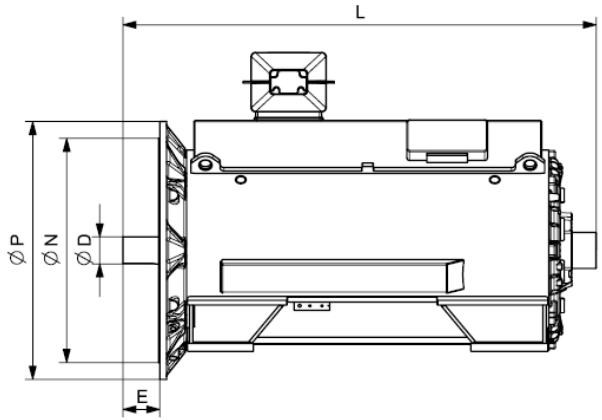

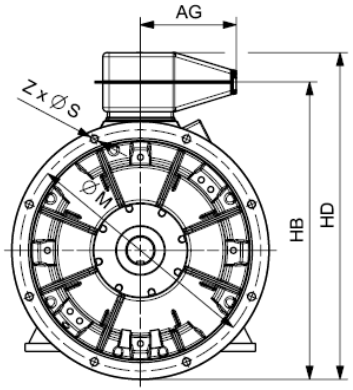

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NA1 454-4WR38-0AG0	3900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-4WR38-0CG0	4100	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WR38-0AG0	4300	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-4WR38-0CG0	4500	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WR38-0AG0	4600	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-4WR38-0CG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 504-4WR38-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-4WR38-0CG0	5500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WR38-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-4WR38-0CG0	5900	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WR38-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-4WR38-0CG0	6400	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 562-4WR38-0CG0	7100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 562-4WR38-0AG0	6800	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WR38-0AG0	7200	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 564-4WR38-0CG0	7500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WR38-0AG0	7700	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-4WR38-0CG0	8000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WR38-0AG0	8200	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-4WR38-0CG0	8600	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
6-pole													
1NA1 454-6WR38-0AG0	3800	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8

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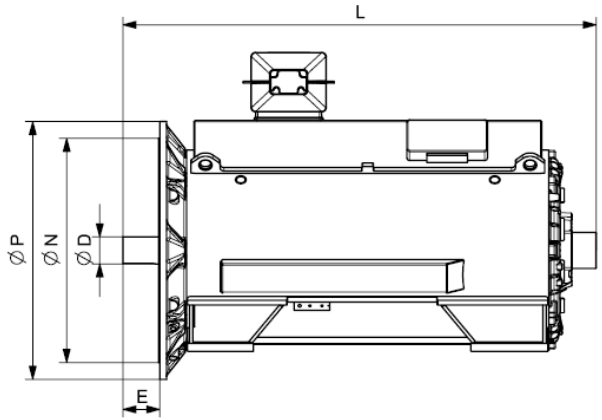

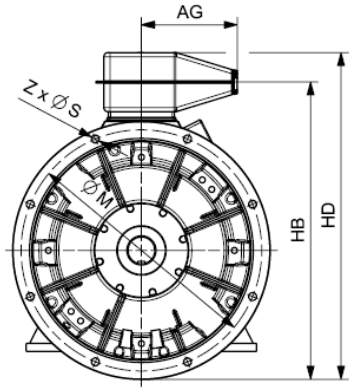

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 454-6WR38-0CG0	4000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WR38-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-6WR38-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WR38-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-6WR38-0CG0	5000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 502-6WR38-0AG0	5000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 502-6WR38-0CG0	5200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WR38-0AG0	5400	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-6WR38-0CG0	5600	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WR38-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-6WR38-0CG0	6000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WR38-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-6WR38-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-6WR38-0CG0	7900	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-6WR38-0CG0	8500	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-6WR38-0CG0	9100	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
8-pole													
1NA1 454-8WR38-0AG0	3800	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 454-8WR38-0CG0	4000	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WR38-0AG0	4200	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 456-8WR38-0CG0	4400	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WR38-0AG0	4700	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8
1NA1 458-8WR38-0CG0	4900	1064	489	120	1327	1458	2030	o.r.	1080	1000	1150	26	8

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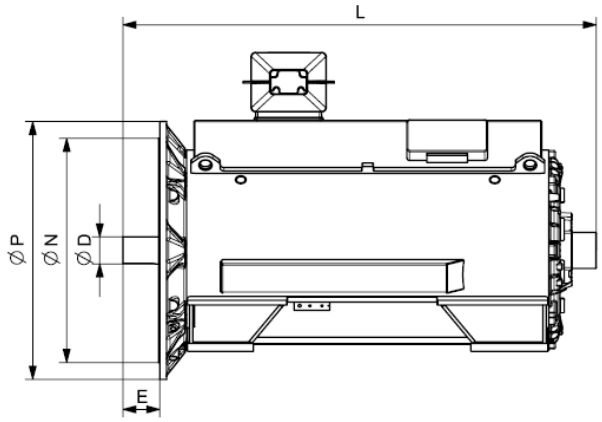

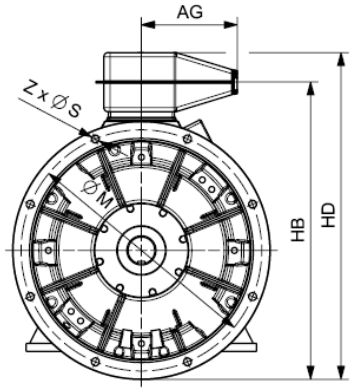

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NA1 IC71W 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NA1 504-8WR38-0AG0	5300	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 504-8WR38-0CG0	5500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WR38-0AG0	5700	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 506-8WR38-0CG0	6000	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WR38-0AG0	6200	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 508-8WR38-0CG0	6500	1114	489	140	1451	1582	2173	o.r.	1180	1120	1250	26	16
1NA1 564-8WR38-0CG0	7800	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 566-8WR38-0CG0	8400	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16
1NA1 568-8WR38-0CG0	9000	1189	489	160	1602	1733	2346	o.r.	1320	1250	1400	26	16

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SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - const torque drive																						
730	640	**1NB1 402-2AC00-4A.0**	2980	96.5	0,93	680	2339	3,50	10.0	3600	290	1876	96.0	0,91	90	1475	93.9	0,88	40	1321	90.6	0,87
690	610	**1NB1 402-2AC00-4C.0**	2982	96.4	0,93	640	2210	3,70	12.3	3600	275	1773	95.9	0,91	85	1394	93.9	0,87	40	1248	90.7	0,86
750	660	**1NB1 404-2AC00-4A.0**	2980	96.5	0,94	690	2403	3,80	11.0	3600	300	1928	96.0	0,93	95	1515	94.0	0,90	40	1357	90.7	0,89
710	630	**1NB1 404-2AC00-4C.0**	2982	96.4	0,94	660	2274	4,00	13.5	3600	285	1824	95.9	0,92	90	1434	93.9	0,89	40	1284	90.8	0,88
850	750	**1NB1 406-2AC00-4A.0**	2982	96.7	0,94	780	2722	3,90	12.2	3600	340	2184	96.3	0,92	105	1717	94.5	0,89	45	1537	91.6	0,88
850	750	**1NB1 406-2AC00-4C.0**	2983	96.7	0,94	780	2721	3,80	14.9	3600	340	2183	96.2	0,92	105	1716	94.3	0,88	45	1537	91.5	0,88
900	790	**1NB1 452-2AC00-4A.0**	2984	96.9	0,93	840	2880	2,90	12.6	3600	360	2310	96.5	0,92	110	1816	94.8	0,90	50	1626	91.8	0,89
900	790	**1NB1 452-2AC00-4C.0**	2984	96.8	0,93	840	2880	2,80	17.1	3600	360	2310	96.4	0,92	110	1816	94.7	0,90	50	1626	91.7	0,89
1000	880	**1NB1 454-2AC00-4A.0**	2983	96.8	0,94	920	3201	2,80	14.1	3600	400	2567	96.5	0,93	125	2018	94.6	0,91	55	1807	91.5	0,91
970	860	**1NB1 454-2AC00-4C.0**	2984	96.8	0,94	890	3104	2,80	19.0	3600	390	2490	96.4	0,93	120	1958	94.6	0,91	55	1753	91.7	0,91
1150	1010	**1NB1 456-2AC00-4A.0**	2985	97.1	0,94	1060	3679	3,30	15.5	3600	460	2953	96.8	0,93	145	2321	95.2	0,91	65	2079	92.6	0,90
1150	1010	**1NB1 456-2AC00-4C.0**	2986	97.1	0,94	1060	3678	3,20	20.9	3600	460	2951	96.7	0,93	145	2319	95.1	0,91	65	2077	92.6	0,90
1150	1010	**1NB1 502-2AC00-4C.0**	2985	96.5	0,90	1100	3679	2,80	27.1	3000	460	2951	96.1	0,90	145	2320	94.5	0,88	65	2077	92.1	0,87
1150	1010	**1NB1 502-2AC00-4A.0**	2984	96.7	0,89	1120	3680	2,80	20.9	3000	460	2951	96.3	0,89	145	2320	94.7	0,87	65	2077	92.1	0,87
1420	1250	**1NB1 504-2AC00-4A.0**	2987	97.0	0,90	1360	4540	3,40	23.3	3000	570	3642	96.5	0,89	180	2863	95.0	0,87	80	2563	92.8	0,87
1450	1280	**1NB1 504-2AC00-4C.0**	2988	96.8	0,91	1380	4634	3,30	30.0	3000	580	3718	96.3	0,90	180	2923	94.9	0,87	80	2617	92.7	0,87
1500	1320	**1NB1 506-2AC00-4A.0**	2987	97.0	0,91	1420	4795	3,70	26.4	3000	600	3845	96.5	0,91	190	3023	95.0	0,88	85	2707	92.7	0,88
1500	1320	**1NB1 506-2AC00-4C.0**	2988	96.9	0,92	1400	4794	3,40	33.7	3000	600	3845	96.3	0,91	190	3023	94.8	0,88	85	2707	92.7	0,88
1670	1470	**1NB1 564-2AC00-4C.0**	2991	97.0	0,91	1580	5332	3,30	50.0	3000	670	4277	96.6	0,89	210	3362	95.4	0,87	95	3010	93.7	0,86
1850	1630	**1NB1 566-2AC00-4C.0**	2991	97.1	0,92	1740	5906	3,20	55.2	3000	740	4739	96.6	0,91	230	3725	95.3	0,89	105	3335	93.5	0,89
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - const torque drive																						
800	710	**1NB1 404-4AC00-4A.0**	1491	96.3	0,89	780	5124	3,40	15.6	2600	320	4109	95.0	0,86	100	3230	92.7	0,83	45	2892	89.4	0,81
800	710	**1NB1 404-4AC00-4C.0**	1490	96.4	0,89	780	5127	3,00	19.8	2600	320	4114	95.3	0,87	100	3234	93.0	0,84	45	2896	89.5	0,82
850	750	**1NB1 406-4AC00-4A.0**	1492	96.4	0,89	830	5440	3,80	17.4	2600	340	4364	95.1	0,86	105	3431	92.9	0,82	45	3072	89.9	0,81
840	740	**1NB1 406-4AC00-4C.0**	1491	96.5	0,89	820	5380	3,30	22.1	2600	335	4316	95.4	0,86	105	3393	93.3	0,83	45	3038	90.2	0,81
1000	880	**1NB1 452-4AC00-4A.0**	1490	96.6	0,90	960	6409	2,80	24.0	2400	400	5141	95.8	0,88	125	4041	93.6	0,85	55	3619	90.4	0,84
930	820	**1NB1 452-4AC00-4C.0**	1491	96.6	0,89	910	5956	2,70	30.9	2400	370	4779	95.8	0,87	115	3757	93.8	0,84	50	3364	90.6	0,83
1150	1010	**1NB1 454-4AC00-4A.0**	1491	96.7	0,90	1100	7365	2,90	26.4	2400	460	5911	95.9	0,88	145	4646	93.7	0,85	65	4161	90.6	0,84
1110	980	**1NB1 454-4AC00-4C.0**	1491	96.7	0,89	1080	7109	2,70	33.9	2400	445	5704	95.9	0,87	140	4484	93.9	0,84	60	4015	90.7	0,83
1200	1060	**1NB1 456-4AC00-4C.0**	1492	96.8	0,90	1160	7680	2,90	39.0	2400	480	6163	96.1	0,88	150	4844	94.1	0,84	65	4338	91.3	0,83
1200	1060	**1NB1 456-4AC00-4A.0**	1492	96.9	0,90	1160	7680	3,30	30.5	2400	480	6163	96.0	0,88	150	4845	94.0	0,85	65	4338	91.3	0,84
1150	1010	**1NB1 502-4AC00-4C.0**	1492	96.2	0,87	1140	7360	2,50	37.3	2200	460	5908	95.6	0,85	145	4644	93.4	0,82	65	4158	90.0	0,82
1120	990	**1NB1 502-4AC00-4A.0**	1492	96.1	0,88	1100	7168	3,30	28.4	2200	450	5752	95.3	0,85	140	4522	93.0	0,81	60	4049	89.5	0,80
1420	1250	**1NB1 504-4AC00-4C.0**	1491	96.5	0,86	1440	9095	2,30	42.4	2200	570	7296	95.8	0,86	175	5735	93.8	0,83	80	5136	90.7	0,83

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SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD const torque																						
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1420	1250	**1NB1 504-4AC00-4A.0**	1491	96.4	0,88	1400	9095	2,90	32.5	2200	570	7300	95.6	0,86	175	5738	93.4	0,83	80	5138	90.2	0,82
1450	1280	**1NB1 506-4AC00-4A.0**	1492	96.5	0,89	1420	9280	3,20	37.0	2200	580	7448	95.5	0,88	180	5855	93.4	0,84	80	5243	90.4	0,83
1450	1280	**1NB1 506-4AC00-4C.0**	1492	96.6	0,88	1420	9280	2,50	48.0	2200	580	7447	95.8	0,87	180	5854	93.8	0,84	80	5242	90.8	0,84
1600	1410	**1NB1 562-4AC00-4A.0**	1493	96.4	0,89	1560	10234	2,70	54.5	2000	640	8212	95.9	0,87	200	6455	94.0	0,85	90	5780	90.9	0,84
1600	1410	**1NB1 562-4AC00-4C.0**	1492	96.5	0,88	1580	10241	2,30	72.4	2000	640	8214	96.0	0,87	200	6457	94.0	0,85	90	5782	90.9	0,85
1900	1670	**1NB1 564-4AC00-4A.0**	1493	96.8	0,89	1840	12152	2,70	59.9	2000	760	9750	96.1	0,88	235	7664	94.5	0,85	105	6863	91.9	0,84
1900	1670	**1NB1 564-4AC00-4C.0**	1493	96.8	0,88	1860	12152	2,40	79.3	2000	760	9752	96.2	0,87	235	7666	94.5	0,85	105	6865	92.0	0,84
1950	1720	**1NB1 566-4AC00-4A.0**	1493	96.8	0,90	1880	12472	2,70	66.6	2000	780	10007	96.2	0,89	245	7866	94.5	0,86	110	7044	91.9	0,86
1950	1720	**1NB1 566-4AC00-4C.0**	1493	96.8	0,89	1900	12472	2,40	88.0	2000	780	10008	96.2	0,88	245	7867	94.5	0,86	110	7045	91.9	0,86
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - const torque drive																						
600	530	**1NB1 404-6AC00-4A.0**	995	96.1	0,87	600	5758	3,60	25.9	2400	240	4619	94.1	0,83	75	3631	91.2	0,79	35	3251	87.4	0,78
630	560	**1NB1 404-6AC00-4C.0**	994	96.2	0,87	630	6052	2,90	33.3	2400	250	4858	94.8	0,85	80	3819	92.0	0,82	35	3420	88.0	0,81
630	560	**1NB1 406-6AC00-4A.0**	996	96.1	0,87	630	6040	3,90	29.6	2400	250	4847	94.1	0,83	80	3810	91.3	0,78	35	3412	87.8	0,77
670	590	**1NB1 406-6AC00-4C.0**	994	96.3	0,87	670	6437	3,20	38.1	2400	270	5162	94.9	0,85	85	4058	92.3	0,81	35	3633	88.6	0,80
800	710	**1NB1 452-6AC00-4A.0**	993	96.2	0,85	820	7693	2,80	34.8	2200	320	6172	94.7	0,83	100	4852	91.8	0,80	45	4345	87.6	0,79
800	710	**1NB1 452-6AC00-4C.0**	992	96.2	0,84	830	7701	2,50	43.4	2200	320	6177	94.9	0,83	100	4856	92.1	0,82	45	4348	87.9	0,81
910	800	**1NB1 454-6AC00-4A.0**	993	96.3	0,86	920	8751	2,90	39.5	2200	365	7019	94.8	0,83	115	5517	92.1	0,81	50	4941	88.2	0,80
910	800	**1NB1 454-6AC00-4C.0**	993	96.4	0,85	930	8751	2,50	49.1	2200	365	7026	95.1	0,84	115	5523	92.5	0,82	50	4946	88.5	0,81
910	800	**1NB1 456-6AC00-4A.0**	995	96.4	0,84	940	8734	3,80	45.8	2200	365	7004	94.7	0,79	115	5506	92.1	0,74	50	4930	88.5	0,72
950	840	**1NB1 456-6AC00-4C.0**	995	96.6	0,85	970	9117	3,20	56.7	2200	380	7318	95.2	0,81	120	5752	92.8	0,78	50	5151	89.3	0,76
1000	880	**1NB1 500-6AC00-4C.0**	993	96.2	0,86	1020	9617	1,90	59.8	2100	400	7715	95.4	0,86	125	6064	92.9	0,85	55	5430	89.2	0,85
920	810	**1NB1 500-6AC00-4A.0**	992	96.0	0,83	970	8856	2,20	46.5	2100	370	7108	95.0	0,84	115	5587	92.2	0,83	50	5003	88.3	0,82
1150	1010	**1NB1 502-6AC00-4A.0**	992	96.3	0,83	1200	11070	2,20	52.7	2100	460	8885	95.3	0,83	145	6984	92.7	0,82	65	6254	88.9	0,82
1220	1080	**1NB1 502-6AC00-4C.0**	994	96.5	0,86	1240	11720	1,90	67.5	2100	490	9414	95.8	0,86	150	7400	93.4	0,85	65	6626	90.0	0,84
1260	1110	**1NB1 504-6AC00-4C.0**	994	96.5	0,87	1260	12105	1,90	76.1	2100	505	9719	95.7	0,87	155	7640	93.4	0,86	70	6841	90.0	0,85
1200	1060	**1NB1 504-6AC00-4A.0**	992	96.3	0,85	1220	11552	2,20	59.7	2100	480	9270	95.3	0,85	150	7287	92.6	0,84	65	6525	88.9	0,83
1400	1230	**1NB1 506-6AC00-4C.0**	994	96.7	0,87	1400	13450	2,10	85.6	2100	560	10788	95.8	0,86	175	8480	93.6	0,85	75	7594	90.6	0,84
1400	1230	**1NB1 506-6AC00-4A.0**	993	96.5	0,86	1420	13463	2,30	67.3	2100	560	10811	95.3	0,85	175	8498	92.7	0,84	75	7610	89.3	0,83
1610	1420	**1NB1 562-6AC00-4C.0**	994	96.9	0,87	1600	15467	2,30	120.2	2000	645	12413	96.0	0,87	200	9757	93.8	0,87	90	8737	90.4	0,86
1950	1720	**1NB1 564-6AC00-4C.0**	994	97.1	0,88	1900	18734	2,40	136.7	2000	780	15026	96.1	0,87	245	11811	94.0	0,86	110	10576	91.0	0,85
2110	1860	**1NB1 566-6AC00-4C.0**	996	97.2	0,87	2100	20230	2,90	151.8	2000	845	16233	96.1	0,85	265	12760	94.3	0,82	115	11426	91.8	0,81
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - const torque drive																						
490	430	**1NB1 404-8AC00-4A.0**	744	95.7	0,83	520	6289	3,00	26.7	2400	195	5049	93.2	0,79	60	3969	89.0	0,75	25	3554	83.5	0,74
490	430	**1NB1 404-8AC00-4C.0**	742	95.5	0,81	530	6306	2,50	32.9	2400	195	5061	93.4	0,79	60	3978	89.2	0,75	25	3562	83.4	0,75
520	460	**1NB1 406-8AC00-4A.0**	745	95.7	0,79	580	6665	3,90	30.6	2400	210	5345	92.5	0,72	65	4201	88.2	0,66	30	3762	82.7	0,65

SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD const torque

Rated power IEC		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
520	460	**1NB1 406-8AC00-4C.0**	745	95.8	0,79	570	6665	3,30	37.6	2400	210	5352	93.3	0,74	65	4207	89.2	0,68	30	3767	83.8	0,67
630	560	**1NB1 452-8AC00-4A.0**	743	95.6	0,78	710	8097	2,30	35.1	2200	250	6498	93.5	0,77	80	5108	89.6	0,75	35	4574	83.9	0,75
630	560	**1NB1 452-8AC00-4C.0**	741	95.5	0,79	700	8119	2,30	43.0	2200	250	6519	93.5	0,77	80	5124	89.4	0,76	35	4588	83.3	0,76
720	640	**1NB1 454-8AC00-4A.0**	743	95.6	0,80	790	9254	2,40	39.9	2200	290	7424	93.6	0,78	90	5836	89.7	0,76	40	5226	84.2	0,75
710	630	**1NB1 454-8AC00-4C.0**	742	95.6	0,80	780	9137	2,40	48.8	2200	285	7339	93.7	0,78	90	5769	89.7	0,76	40	5166	83.9	0,76
750	660	**1NB1 456-8AC00-4A.0**	744	95.8	0,80	820	9626	2,80	46.4	2200	300	7722	93.6	0,77	95	6070	89.9	0,73	40	5436	84.7	0,72
750	660	**1NB1 456-8AC00-4C.0**	743	95.8	0,80	820	9639	2,80	56.4	2200	300	7735	93.8	0,77	95	6080	90.0	0,74	40	5445	84.7	0,73
810	710	**1NB1 502-8AC00-4C.0**	744	95.7	0,85	830	10396	2,00	67.0	2100	325	8351	94.6	0,83	100	6564	91.6	0,81	45	5878	87.0	0,80
800	710	**1NB1 502-8AC00-4A.0**	743	95.6	0,80	880	10282	1,70	52.0	2100	320	8255	94.5	0,79	100	6489	91.4	0,78	45	5811	86.4	0,78
950	840	**1NB1 504-8AC00-4A.0**	743	95.8	0,80	1040	12210	1,80	58.8	2100	380	9799	94.6	0,80	120	7703	91.7	0,78	50	6897	87.2	0,77
960	850	**1NB1 504-8AC00-4C.0**	744	95.9	0,85	990	12322	2,10	75.6	2100	385	9889	94.7	0,83	120	7774	91.8	0,80	50	6961	87.7	0,79
970	860	**1NB1 506-8AC00-4A.0**	744	96.0	0,81	1040	12450	2,20	66.4	2100	390	9984	94.7	0,79	120	7848	91.8	0,76	55	7028	87.8	0,74
1000	880	**1NB1 506-8AC00-4C.0**	745	95.9	0,85	1020	12818	2,40	85.1	2100	400	10286	94.6	0,82	125	8086	91.9	0,78	55	7240	88.1	0,77
1250	1100	**1NB1 562-8AC00-4C.0**	744	96.5	0,85	1280	16044	2,00	119.6	2000	500	12875	95.4	0,84	155	10121	92.8	0,82	70	9063	89.0	0,81
1450	1280	**1NB1 564-8AC00-4C.0**	744	96.6	0,85	1480	18611	2,10	136.3	2000	580	14929	95.5	0,84	180	11735	92.8	0,82	80	10508	89.0	0,81
1510	1330	**1NB1 566-8AC00-4C.0**	744	96.7	0,85	1540	19381	2,10	151.7	2000	605	15545	95.6	0,84	190	12220	93.0	0,83	85	10942	89.4	0,82

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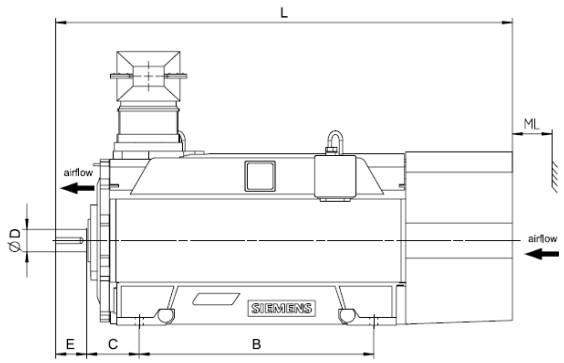

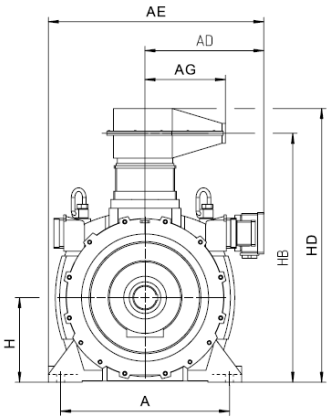

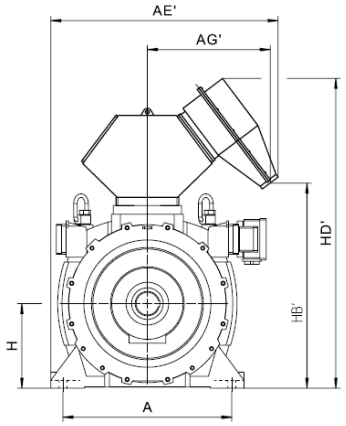

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 402-2AC00-4A.0	3800	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 402-2AC00-4C.0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 404-2AC00-4A.0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 404-2AC00-4C.0	4000	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 406-2AC00-4A.0	4100	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 406-2AC00-4C.0	4200	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 452-2AC00-4A.0	4800	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 452-2AC00-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 454-2AC00-4A.0	5000	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 454-2AC00-4C.0	5200	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 456-2AC00-4A.0	5300	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 456-2AC00-4C.0	5500	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 502-2AC00-4C.0	6500	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 502-2AC00-4A.0	6400	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 504-2AC00-4A.0	6700	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 504-2AC00-4C.0	6800	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 506-2AC00-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 506-2AC00-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	2457	200
1NB1 564-2AC00-4C.0	8800	1120	684	831	1319	1466	371	719	1400	335	120	165	560	1682	1447	1847	2031	2628	225
1NB1 566-2AC00-4C.0	9200	1120	684	831	1319	1466	371	719	1400	335	120	165	560	1682	1447	1847	2031	2628	225
4-pole																			
1NB1 404-4AC00-4A.0	4000	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160

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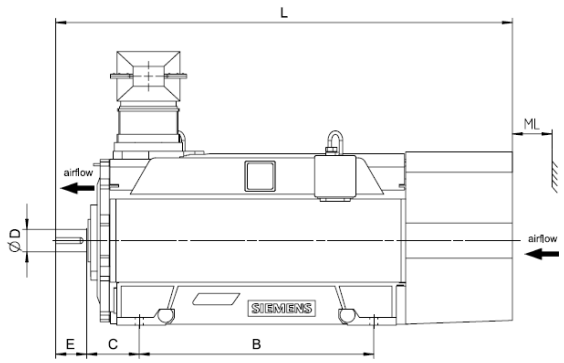

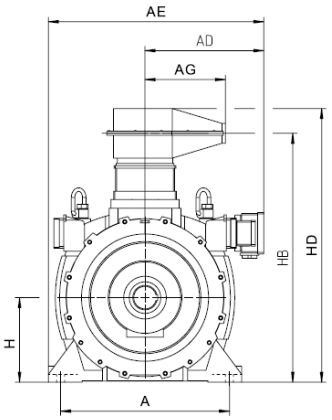

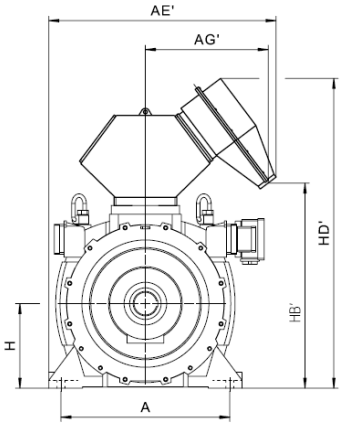

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 404-4AC00-4C.0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-4AC00-4A.0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-4AC00-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-4AC00-4A.0	4900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-4AC00-4C.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-4AC00-4A.0	5200	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-4AC00-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-4AC00-4C.0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-4AC00-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 502-4AC00-4C.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-4AC00-4A.0	6400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-4AC00-4C.0	7100	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-4AC00-4A.0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-4AC00-4A.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-4AC00-4C.0	7500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-4AC00-4A.0	8600	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 562-4AC00-4C.0	8900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-4AC00-4A.0	9100	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-4AC00-4C.0	9500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-4AC00-4A.0	9600	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-4AC00-4C.0	10000	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
6-pole																			
1NB1 404-6AC00-4A.0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160

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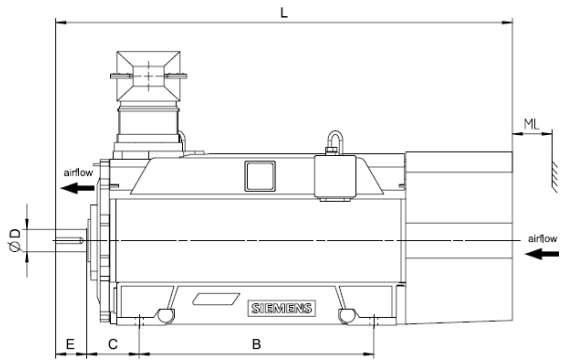

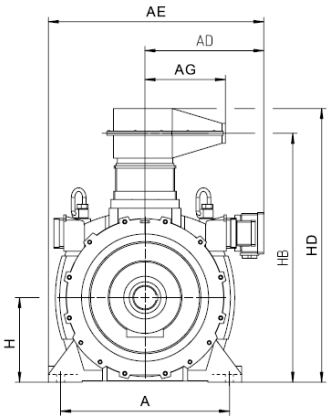

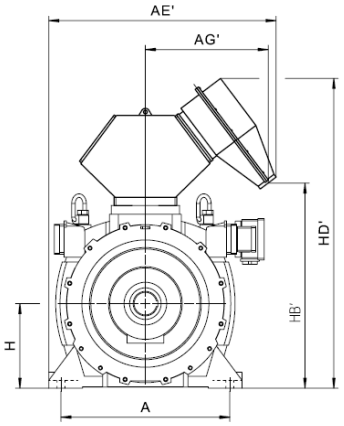

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 404-6AC00-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-6AC00-4A.0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-6AC00-4C.0	4600	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-6AC00-4A.0	4900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-6AC00-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-6AC00-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-6AC00-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-6AC00-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-6AC00-4C.0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 500-6AC00-4C.0	6500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 500-6AC00-4A.0	6300	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-6AC00-4A.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-6AC00-4C.0	6900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-6AC00-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-6AC00-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-6AC00-4C.0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-6AC00-4A.0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-6AC00-4C.0	9200	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-6AC00-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-6AC00-4C.0	10500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
8-pole																			
1NB1 404-8AC00-4A.0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 404-8AC00-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160

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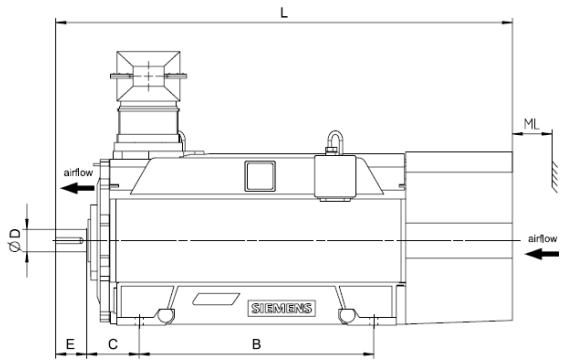

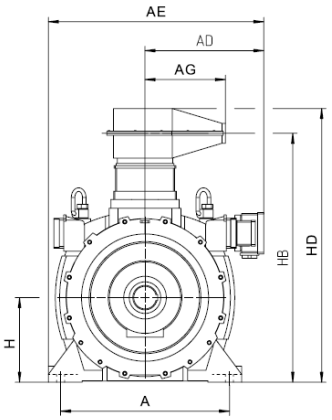

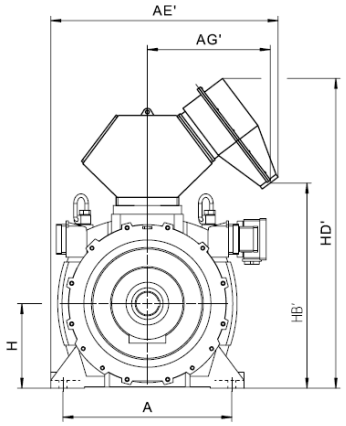

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 406-8AC00-4A.0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-8AC00-4C.0	4500	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-8AC00-4A.0	4800	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-8AC00-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-8AC00-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-8AC00-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-8AC00-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-8AC00-4C.0	5600	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 502-8AC00-4C.0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-8AC00-4A.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-8AC00-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-8AC00-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-8AC00-4A.0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-8AC00-4C.0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-8AC00-4C.0	9300	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-8AC00-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-8AC00-4C.0	10500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225

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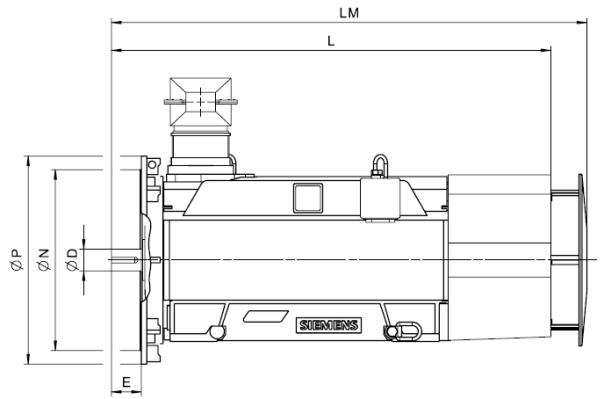

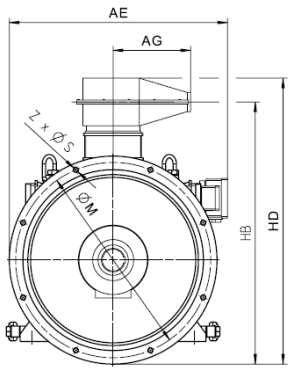

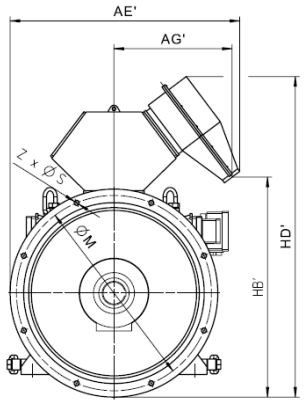

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
2-pole													
1NB1 402-2AC04-4AA0	4000	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 402-2AC04-4CA0	4000	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 404-2AC04-4AA0	4100	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 404-2AC04-4CA0	4200	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 406-2AC04-4AA0	4300	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
1NB1 406-2AC04-4CA0	4400	1041	356	85	1285	1499	2147	2347	940	880	1000	24	8
4-pole													
1NB1 404-4AC04-4AA0	4200	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-4AC04-4CA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-4AC04-4AA0	4400	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-4AC04-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-4AC04-4AA0	5200	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-4AC04-4CA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-4AC04-4AA0	5400	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-4AC04-4CA0	5600	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-4AC04-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-4AC04-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 502-4AC04-4CA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-4AC04-4AA0	6700	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-4AC04-4CA0	7300	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-4AC04-4AA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-4AC04-4AA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16

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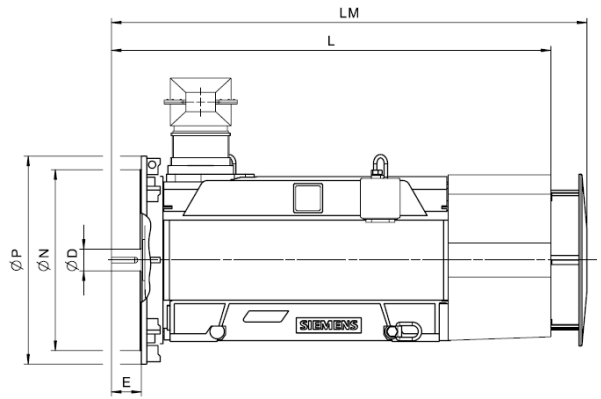

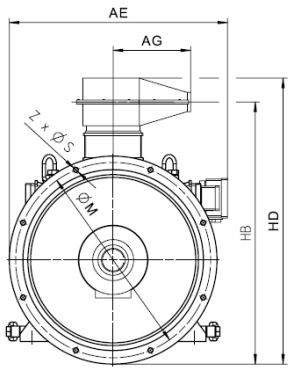

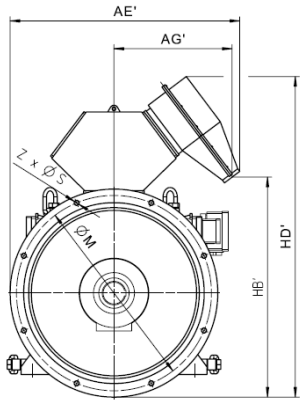

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 506-4AC04-4CA0	7800	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-4AC04-4AA0	9000	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 562-4AC04-4CA0	9300	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-4AC04-4AA0	9500	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-4AC04-4CA0	9800	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-4AC04-4AA0	10000	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-4AC04-4CA0	10300	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
6-pole													
1NB1 404-6AC04-4AA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-6AC04-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-6AC04-4AA0	4600	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-6AC04-4CA0	4800	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-6AC04-4AA0	5100	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-6AC04-4CA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-6AC04-4AA0	5400	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-6AC04-4CA0	5500	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-6AC04-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-6AC04-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 500-6AC04-4CA0	6800	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 500-6AC04-4AA0	6600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-6AC04-4AA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-6AC04-4CA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-6AC04-4CA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16

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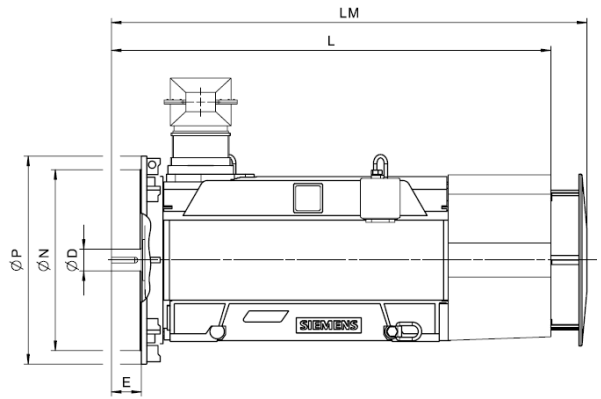

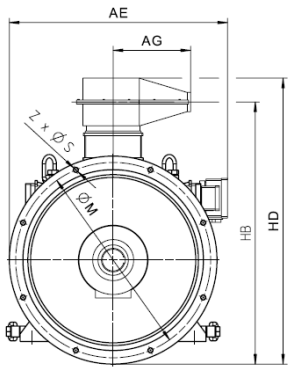

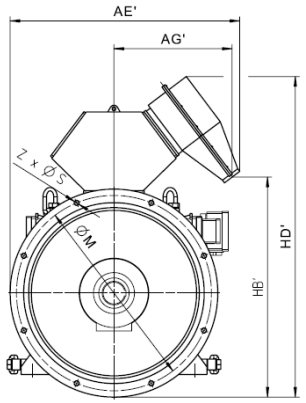

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 504-6AC04-4AA0	7300	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-6AC04-4CA0	7900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-6AC04-4AA0	7700	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-6AC04-4CA0	9600	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-6AC04-4CA0	10200	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-6AC04-4CA0	10900	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
8-pole													
1NB1 404-8AC04-4AA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-8AC04-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-8AC04-4AA0	4600	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-8AC04-4CA0	4700	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-8AC04-4AA0	5100	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-8AC04-4CA0	5200	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-8AC04-4AA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-8AC04-4CA0	5500	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-8AC04-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-8AC04-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 502-8AC04-4CA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-8AC04-4AA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-8AC04-4AA0	7200	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-8AC04-4CA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-8AC04-4AA0	7600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-8AC04-4CA0	7900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16

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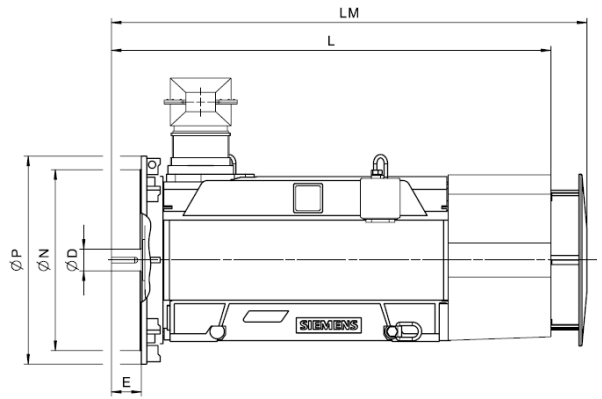

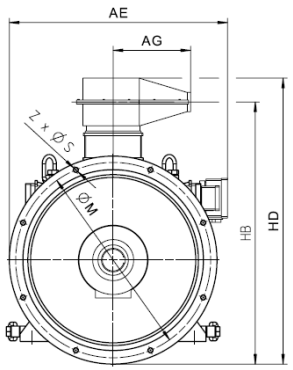

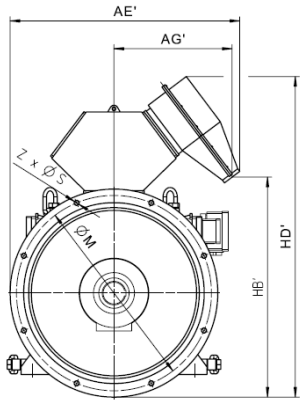

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 562-8AC04-4CA0	9700	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-8AC04-4CA0	10200	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-8AC04-4CA0	10800	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - const torque drive																						
880	780	**1NB1 402-2AC10-4A.0**	3580	96.5	0,93	820	2347	3,40	10.0	3600	350	1883	96.2	0,91	110	1480	94.6	0,88	50	1325	91.9	0,87
850	750	**1NB1 402-2AC10-4C.0**	3581	96.4	0,92	800	2267	3,40	12.3	3600	340	1818	96.1	0,90	105	1429	94.4	0,87	45	1279	91.8	0,86
900	790	**1NB1 404-2AC10-4A.0**	3581	96.6	0,94	830	2400	3,90	11.0	3600	360	1925	96.2	0,92	110	1513	94.6	0,89	50	1355	92.0	0,88
880	780	**1NB1 404-2AC10-4C.0**	3582	96.5	0,94	810	2346	3,90	13.5	3600	350	1883	96.0	0,92	110	1481	94.5	0,88	50	1326	91.9	0,87
950	840	**1NB1 406-2AC10-4A.0**	3582	96.6	0,95	870	2533	4,10	12.2	3600	380	2033	96.2	0,93	120	1598	94.6	0,90	50	1431	92.0	0,89
910	800	**1NB1 406-2AC10-4C.0**	3583	96.5	0,94	840	2425	4,20	14.9	3600	365	1946	96.0	0,92	115	1530	94.5	0,89	50	1370	92.0	0,88
1000	880	**1NB1 452-2AC10-4C.0**	3585	96.8	0,93	930	2664	3,00	17.4	3600	400	2136	96.7	0,92	125	1679	95.6	0,89	55	1504	93.6	0,88
1100	970	**1NB1 454-2AC10-4C.0**	3586	96.9	0,94	1020	2929	3,20	19.3	3600	440	2352	96.7	0,92	140	1849	95.4	0,90	60	1655	93.3	0,89
1200	1060	**1NB1 456-2AC10-4C.0**	3584	96.9	0,94	1100	3197	2,80	21.3	3600	480	2565	96.6	0,94	150	2016	95.2	0,92	65	1805	92.8	0,91
1400	1230	**1NB1 502-2AC10-4CC0**	3586	96.5	0,90	1340	3728	3,00	26.8	3600	560	2991	96.2	0,89	175	2351	95.0	0,87	80	2105	93.1	0,87
1550	1370	**1NB1 504-2AC10-4CC0**	3586	96.6	0,91	1480	4128	3,00	29.8	3600	620	3311	96.1	0,91	195	2603	94.9	0,89	85	2331	92.9	0,88
1800	1590	**1NB1 506-2AC10-4CC0**	3589	96.9	0,91	1700	4789	3,60	33.5	3600	720	3841	96.2	0,90	225	3020	95.1	0,87	100	2704	93.6	0,86
1800	1590	**1NB1 564-2AC10-4CC0**	3590	96.7	0,91	1720	4788	2,90	49.5	3600	720	3841	96.3	0,91	225	3020	95.3	0,89	100	2704	93.7	0,89
2050	1810	**1NB1 566-2AC10-4CC0**	3592	96.8	0,92	1920	5450	3,50	55.3	3600	820	4371	96.4	0,90	255	3436	95.4	0,88	115	3077	93.8	0,87
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - const torque drive																						
900	790	**1NB1 404-4AC10-4A.0**	1791	96.4	0,89	880	4799	3,30	15.6	2600	360	3849	95.1	0,87	110	3026	93.2	0,84	50	2710	90.4	0,82
910	800	**1NB1 404-4AC10-4C.0**	1790	96.5	0,89	890	4855	2,90	19.8	2600	365	3896	95.4	0,87	115	3062	93.4	0,84	50	2742	90.4	0,83
950	840	**1NB1 406-4AC10-4A.0**	1792	96.5	0,89	930	5062	3,80	17.4	2600	380	4060	95.0	0,86	120	3192	93.2	0,82	55	2858	90.7	0,80
950	840	**1NB1 406-4AC10-4C.0**	1791	96.6	0,89	920	5065	3,30	22.1	2600	380	4063	95.4	0,86	120	3194	93.7	0,83	55	2860	91.0	0,81
1120	990	**1NB1 452-4AC10-4A.0**	1790	96.7	0,90	1080	5975	2,80	24.0	2400	450	4792	95.8	0,88	140	3767	94.1	0,85	60	3373	91.4	0,85
1120	990	**1NB1 452-4AC10-4C.0**	1790	96.6	0,89	1100	5975	2,60	30.9	2400	450	4793	95.9	0,87	140	3768	94.1	0,85	60	3374	91.3	0,84
1260	1110	**1NB1 454-4AC10-4A.0**	1792	96.8	0,90	1220	6714	3,40	26.4	2400	505	5386	95.8	0,87	160	4234	94.1	0,83	70	3791	91.7	0,82
1250	1100	**1NB1 454-4AC10-4C.0**	1792	96.8	0,89	1220	6661	3,00	33.9	2400	500	5343	95.9	0,86	155	4200	94.2	0,83	70	3761	91.7	0,82
1360	1200	**1NB1 456-4AC10-4A.0**	1792	97.0	0,90	1300	7247	3,50	30.5	2400	545	5813	96.0	0,88	170	4569	94.4	0,84	75	4092	92.3	0,83
1350	1190	**1NB1 456-4AC10-4C.0**	1792	96.9	0,90	1300	7194	3,20	39.0	2400	540	5769	96.1	0,87	170	4535	94.5	0,83	75	4061	92.3	0,82
1400	1230	**1NB1 502-4AC10-4A.0**	1790	96.1	0,87	1400	7469	2,70	28.4	2200	560	5994	95.5	0,86	175	4712	93.6	0,83	75	4219	90.8	0,82
1400	1230	**1NB1 502-4AC10-4C.0**	1791	96.2	0,86	1420	7465	2,10	37.3	2200	560	5991	95.7	0,85	175	4709	93.9	0,83	75	4217	91.1	0,83
1550	1370	**1NB1 504-4AC10-4A.0**	1790	96.2	0,89	1520	8269	2,70	32.5	2200	620	6636	95.4	0,88	195	5216	93.6	0,86	85	4671	90.7	0,85
1550	1370	**1NB1 504-4AC10-4C.0**	1791	96.3	0,87	1540	8264	2,20	42.4	2200	620	6632	95.7	0,87	195	5213	93.8	0,85	85	4668	91.0	0,85
1800	1590	**1NB1 506-4AC10-4A.0**	1792	96.5	0,89	1760	9592	3,10	37.0	2200	720	7698	95.6	0,87	225	6051	93.9	0,84	100	5419	91.5	0,82
1800	1590	**1NB1 506-4AC10-4C.0**	1792	96.6	0,87	1800	9592	2,40	48.0	2200	720	7696	95.9	0,86	225	6050	94.3	0,84	100	5417	91.9	0,83
1870	1650	**1NB1 562-4AC10-4C.0**	1792	96.4	0,88	1840	9965	2,20	72.4	2000	750	8000	96.0	0,87	235	6288	94.6	0,85	105	5631	92.4	0,85
1870	1650	**1NB1 562-4AC10-4A.0**	1792	96.2	0,88	1840	9965	2,50	54.5	2000	750	7998	95.9	0,87	235	6287	94.6	0,85	105	5630	92.4	0,84
2100	1850	**1NB1 564-4AC10-4A.0**	1793	96.4	0,88	2050	11184	2,70	59.9	2000	840	8975	96.0	0,87	265	7055	94.6	0,84	115	6318	92.4	0,83

SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2100	1850	**1NB1 564-4AC10-4C.0**	1793	96.6	0,88	2050	11184	2,40	79.3	2000	840	8977	96.1	0,87	265	7057	94.7	0,84	115	6319	92.4	0,84
2170	1910	**1NB1 566-4AC10-4A.0**	1793	96.5	0,89	2100	11557	2,70	66.6	2000	870	9270	96.1	0,88	270	7287	94.7	0,86	120	6525	92.4	0,85
2200	1940	**1NB1 566-4AC10-4C.0**	1793	96.6	0,89	2150	11717	2,30	88.0	2000	880	9406	96.1	0,88	275	7394	94.7	0,86	120	6621	92.4	0,86
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - const torque drive																						
700	620	**1NB1 404-6AC10-4A.0**	1195	96.2	0,88	690	5594	3,30	25.9	2400	280	4488	94.3	0,85	90	3528	91.7	0,82	40	3159	88.5	0,81
710	630	**1NB1 404-6AC10-4C.0**	1194	96.4	0,87	710	5678	2,80	33.3	2400	285	4558	94.9	0,85	90	3583	92.5	0,83	40	3208	89.1	0,82
730	640	**1NB1 406-6AC10-4A.0**	1196	96.3	0,87	730	5829	3,80	29.6	2400	290	4677	94.1	0,84	90	3676	91.7	0,79	40	3292	88.8	0,78
770	680	**1NB1 406-6AC10-4C.0**	1194	96.5	0,87	770	6158	3,10	38.1	2400	310	4938	95.0	0,85	95	3882	92.8	0,82	45	3476	89.7	0,80
900	790	**1NB1 452-6AC10-4A.0**	1193	96.4	0,85	920	7204	2,70	34.8	2200	360	5779	94.9	0,84	110	4543	92.5	0,81	50	4068	89.1	0,80
900	790	**1NB1 452-6AC10-4C.0**	1192	96.5	0,85	920	7210	2,40	43.4	2200	360	5785	95.2	0,84	110	4547	92.8	0,82	50	4072	89.3	0,82
1000	880	**1NB1 454-6AC10-4A.0**	1194	96.5	0,85	1020	7998	3,30	39.5	2200	400	6414	94.7	0,81	125	5042	92.4	0,77	55	4515	89.3	0,76
1050	930	**1NB1 454-6AC10-4C.0**	1193	96.7	0,85	1060	8405	2,70	49.1	2200	420	6743	95.3	0,83	130	5301	93.0	0,80	60	4746	89.8	0,79
1070	940	**1NB1 456-6AC10-4A.0**	1195	96.6	0,85	1100	8550	3,50	45.8	2200	430	6860	94.9	0,81	135	5393	92.9	0,77	60	4829	90.1	0,75
1100	970	**1NB1 456-6AC10-4C.0**	1194	96.8	0,85	1120	8798	3,00	56.7	2200	440	7057	95.4	0,83	135	5547	93.5	0,79	60	4967	90.7	0,78
1250	1100	**1NB1 500-6AC10-4C.0**	1193	96.5	0,86	1260	10006	1,90	59.8	2100	500	8030	95.8	0,86	155	6312	93.7	0,85	70	5652	90.6	0,84
1150	1010	**1NB1 500-6AC10-4A.0**	1192	96.3	0,83	1200	9213	2,10	46.5	2100	460	7394	95.3	0,83	145	5812	93.0	0,82	65	5205	89.7	0,81
1360	1200	**1NB1 502-6AC10-4A.0**	1192	96.4	0,83	1420	10895	2,00	52.7	2100	545	8748	95.4	0,84	170	6877	93.1	0,83	75	6158	89.9	0,82
1450	1280	**1NB1 502-6AC10-4C.0**	1193	96.6	0,86	1460	11606	1,80	67.5	2100	580	9317	95.9	0,86	180	7324	93.8	0,85	80	6558	90.9	0,85
1500	1320	**1NB1 504-6AC10-4A.0**	1193	96.6	0,84	1540	12007	2,40	59.7	2100	600	9631	95.4	0,83	185	7571	93.3	0,81	85	6779	90.4	0,80
1500	1320	**1NB1 504-6AC10-4C.0**	1195	96.8	0,86	1500	11987	2,30	76.1	2100	600	9619	95.9	0,85	190	7561	94.1	0,82	85	6771	91.6	0,81
1550	1370	**1NB1 506-6AC10-4A.0**	1193	96.6	0,86	1560	12407	2,50	67.3	2100	620	9957	95.4	0,85	195	7827	93.2	0,83	85	7008	90.4	0,81
1600	1410	**1NB1 506-6AC10-4C.0**	1195	96.8	0,87	1580	12786	2,20	85.6	2100	640	10261	95.8	0,86	200	8066	94.0	0,84	90	7222	91.4	0,83
1900	1670	**1NB1 562-6AC10-4C.0**	1195	97.0	0,87	1880	15183	2,50	120.2	2000	760	12183	95.9	0,86	240	9577	94.0	0,85	105	8576	91.4	0,84
2050	1810	**1NB1 564-6AC10-4C.0**	1196	97.1	0,87	2050	16368	3,00	136.7	2000	820	13133	95.8	0,85	255	10323	94.2	0,82	115	9244	92.0	0,81
2270	2000	**1NB1 566-6AC10-4C.0**	1195	97.2	0,88	2200	18140	2,60	151.8	2000	910	14550	96.0	0,87	285	11438	94.2	0,85	125	10242	92.0	0,84
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - const torque drive																						
560	490	**1NB1 404-8AC10-4A.0**	894	96.0	0,84	580	5982	2,90	26.7	2400	225	4804	93.3	0,81	70	3776	89.8	0,77	30	3381	85.1	0,76
560	490	**1NB1 404-8AC10-4C.0**	892	95.8	0,82	600	5995	2,40	32.9	2400	225	4812	93.6	0,80	70	3783	89.9	0,77	30	3387	84.9	0,76
600	530	**1NB1 406-8AC10-4A.0**	894	95.9	0,84	620	6409	3,30	30.6	2400	240	5140	93.0	0,79	75	4040	89.3	0,74	35	3618	84.7	0,73
590	520	**1NB1 406-8AC10-4C.0**	894	95.9	0,82	630	6302	2,80	37.6	2400	235	5060	93.4	0,79	75	3978	89.8	0,74	30	3562	85.1	0,73
700	620	**1NB1 452-8AC10-4A.0**	893	95.8	0,79	770	7485	2,20	35.1	2200	280	6007	93.8	0,78	85	4722	90.4	0,76	40	4228	85.6	0,75
700	620	**1NB1 452-8AC10-4C.0**	891	95.7	0,78	780	7502	2,30	43.0	2200	280	6020	93.8	0,78	85	4732	90.2	0,77	40	4237	85.1	0,76
850	750	**1NB1 454-8AC10-4A.0**	892	95.8	0,80	930	9100	2,10	39.9	2200	340	7300	93.9	0,80	105	5739	90.5	0,78	45	5139	85.7	0,78
810	710	**1NB1 454-8AC10-4C.0**	891	95.8	0,80	880	8681	2,20	48.8	2200	325	6966	93.9	0,79	100	5476	90.4	0,78	45	4903	85.4	0,77
950	840	**1NB1 456-8AC10-4C.0**	893	96.2	0,79	1040	10159	2,80	56.4	2200	380	8153	94.3	0,76	120	6409	91.3	0,73	50	5739	87.0	0,72

SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD const torque

Rated power IEC		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
920	810	**1NB1 456-8AC10-4A.0**	895	96.1	0,79	1020	9816	2,80	46.4	2200	370	7881	93.9	0,75	115	6195	90.8	0,70	50	5547	86.8	0,69
1000	880	**1NB1 502-8AC10-4C.0**	893	95.8	0,85	1020	10694	1,90	67.0	2100	400	8584	94.7	0,84	125	6748	92.2	0,81	55	6042	88.3	0,81
910	800	**1NB1 502-8AC10-4A.0**	893	95.9	0,80	990	9731	1,80	52.0	2100	365	7809	94.8	0,79	115	6139	92.2	0,78	50	5497	88.3	0,77
1060	930	**1NB1 504-8AC10-4A.0**	893	96.0	0,81	1140	11335	1,80	58.8	2100	425	9093	94.8	0,80	130	7148	92.2	0,78	60	6401	88.4	0,77
1100	970	**1NB1 504-8AC10-4C.0**	894	95.9	0,85	1120	11750	2,00	75.6	2100	440	9432	94.7	0,83	135	7415	92.2	0,81	60	6639	88.6	0,80
1110	980	**1NB1 506-8AC10-4A.0**	894	96.1	0,82	1180	11857	1,90	66.4	2100	445	9519	94.8	0,81	140	7483	92.3	0,78	60	6700	88.6	0,77
1120	990	**1NB1 506-8AC10-4C.0**	894	96.0	0,85	1140	11963	2,20	85.1	2100	450	9596	94.6	0,83	140	7543	92.2	0,80	60	6754	88.9	0,79
1430	1260	**1NB1 562-8AC10-4C.0**	894	96.5	0,85	1460	15275	2,00	119.6	2000	570	12260	95.5	0,84	180	9637	93.0	0,83	80	8630	89.7	0,82
1480	1300	**1NB1 564-8AC10-4C.0**	895	96.6	0,85	1500	15791	2,10	136.3	2000	590	12676	95.4	0,84	185	9965	93.1	0,82	80	8923	90.0	0,81
1700	1500	**1NB1 566-8AC10-4C.0**	895	96.7	0,85	1740	18138	2,20	151.7	2000	680	14557	95.3	0,84	210	11443	93.1	0,82	95	10246	90.2	0,80

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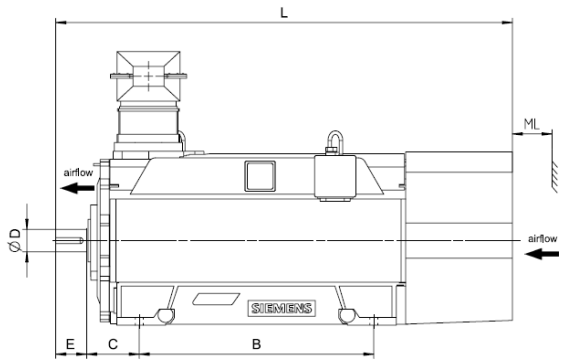

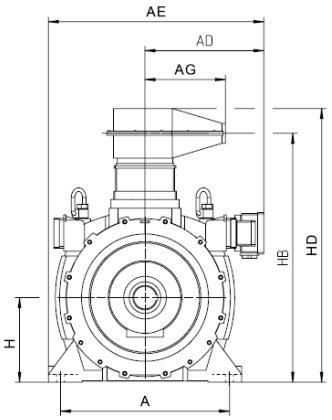

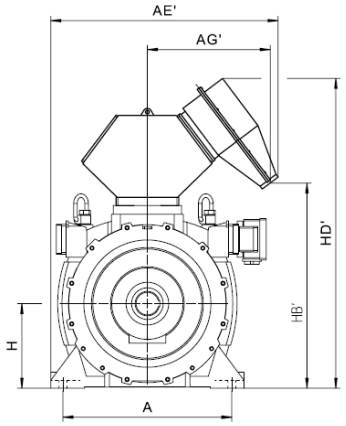

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 402-2AC10-4A.0	3800	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 402-2AC10-4C.0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 404-2AC10-4A.0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 404-2AC10-4C.0	4000	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 406-2AC10-4A.0	4100	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 406-2AC10-4C.0	4200	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2147	160
1NB1 452-2AC10-4C.0	4900	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 454-2AC10-4C.0	5100	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 456-2AC10-4C.0	5400	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	2289	180
1NB1 502-2AC10-4CC0	6700	1000	629	831	1194	1396	371	719	1320	560	110	165	500	1557	1322	1723	1907	2782	200
1NB1 504-2AC10-4CC0	7100	1000	629	831	1194	1396	371	719	1320	560	110	165	500	1557	1322	1723	1907	2782	200
1NB1 506-2AC10-4CC0	7500	1000	629	831	1194	1396	371	719	1320	560	110	165	500	1557	1322	1723	1907	2782	200
1NB1 564-2AC10-4CC0	8800	1120	684	831	1319	1466	371	719	1400	600	120	165	560	1682	1447	1847	2031	2913	225
1NB1 566-2AC10-4CC0	9300	1120	684	831	1319	1466	371	719	1400	600	120	165	560	1682	1447	1847	2031	2913	225
4-pole																			
1NB1 404-4AC10-4A.0	4000	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 404-4AC10-4C.0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-4AC10-4A.0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-4AC10-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-4AC10-4A.0	4900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-4AC10-4C.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-4AC10-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180

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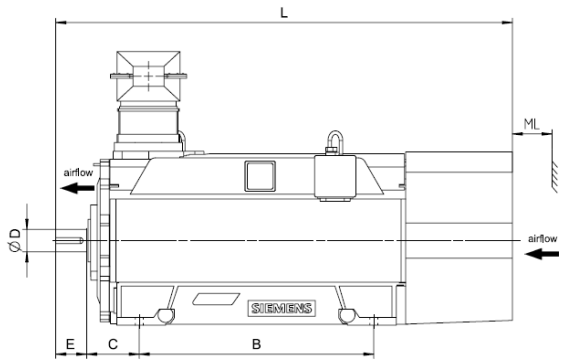

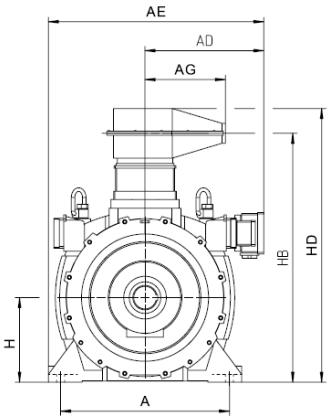

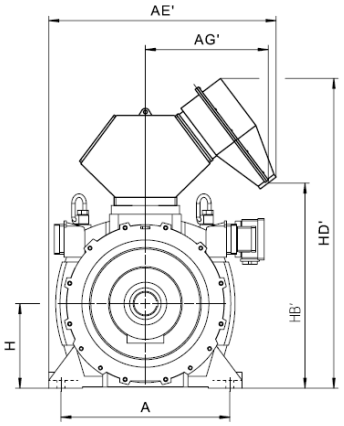

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 454-4AC10-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-4AC10-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-4AC10-4C.0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 502-4AC10-4A.0	6400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-4AC10-4C.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-4AC10-4A.0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-4AC10-4C.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-4AC10-4A.0	7300	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-4AC10-4C.0	7500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-4AC10-4C.0	9000	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 562-4AC10-4A.0	8700	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-4AC10-4A.0	9100	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-4AC10-4C.0	9400	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-4AC10-4A.0	9500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-4AC10-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
6-pole																			
1NB1 404-6AC10-4A.0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 404-6AC10-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-6AC10-4A.0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-6AC10-4C.0	4600	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-6AC10-4A.0	4900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-6AC10-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-6AC10-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180

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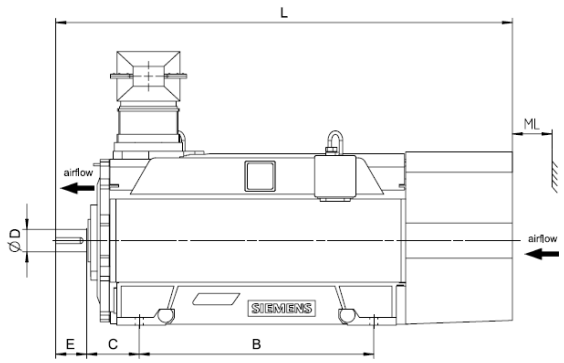

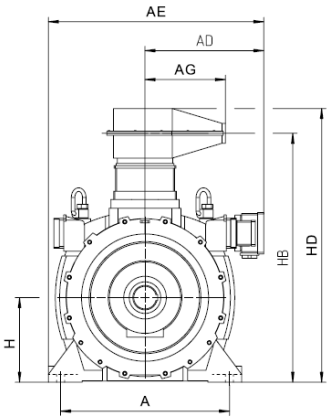

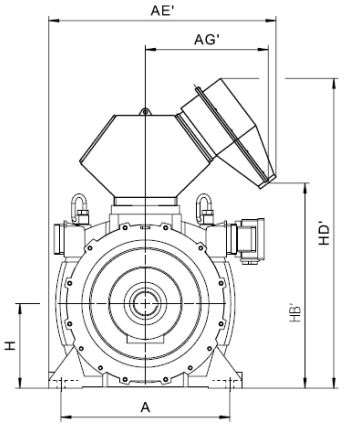

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 454-6AC10-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-6AC10-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-6AC10-4C.0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 500-6AC10-4C.0	6500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 500-6AC10-4A.0	6300	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-6AC10-4A.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-6AC10-4C.0	6900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-6AC10-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-6AC10-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-6AC10-4A.0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-6AC10-4C.0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-6AC10-4C.0	9200	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-6AC10-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-6AC10-4C.0	10500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
8-pole																			
1NB1 404-8AC10-4A.0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 404-8AC10-4C.0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-8AC10-4A.0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 406-8AC10-4C.0	4500	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2242	160
1NB1 452-8AC10-4A.0	4800	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 452-8AC10-4C.0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-8AC10-4A.0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 454-8AC10-4C.0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180

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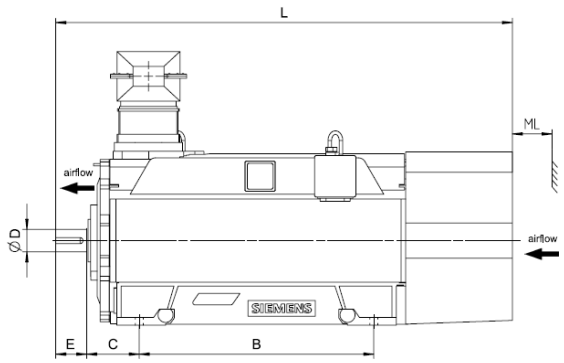

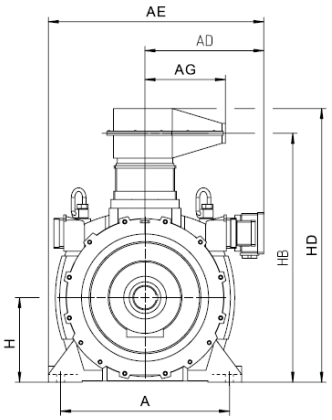

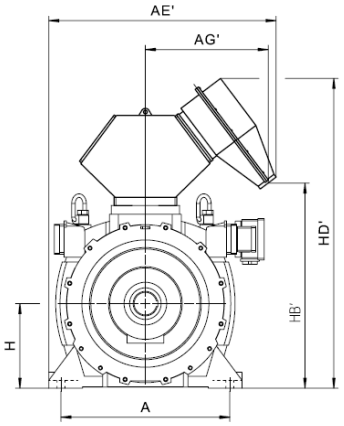

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 456-8AC10-4C.0	5600	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 456-8AC10-4A.0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	2434	180
1NB1 502-8AC10-4C.0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 502-8AC10-4A.0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-8AC10-4A.0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 504-8AC10-4C.0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-8AC10-4A.0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 506-8AC10-4C.0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	2622	200
1NB1 562-8AC10-4C.0	9300	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 564-8AC10-4C.0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225
1NB1 566-8AC10-4C.0	10500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	2783	225

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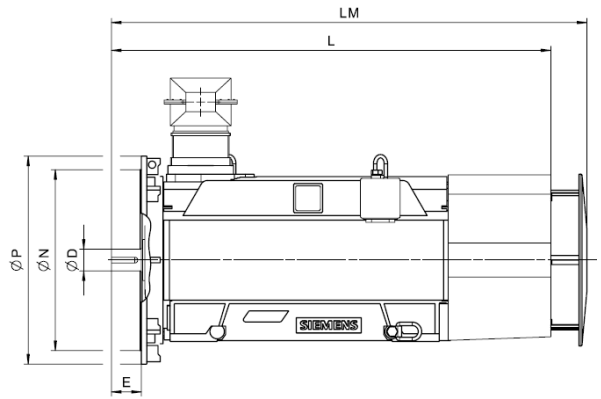

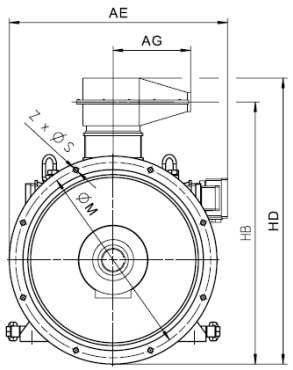

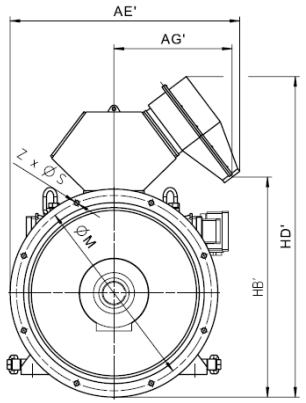

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NB1 404-4AC14-4AA0	4200	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-4AC14-4CA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-4AC14-4AA0	4400	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-4AC14-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-4AC14-4AA0	5200	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-4AC14-4CA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-4AC14-4AA0	5400	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-4AC14-4CA0	5600	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-4AC14-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-4AC14-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 502-4AC14-4AA0	6700	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-4AC14-4CA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-4AC14-4AA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-4AC14-4CA0	7300	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-4AC14-4AA0	7600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-4AC14-4CA0	7800	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-4AC14-4CA0	9400	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 562-4AC14-4AA0	9100	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-4AC14-4AA0	9400	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-4AC14-4CA0	9700	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-4AC14-4AA0	9900	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-4AC14-4CA0	10200	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16

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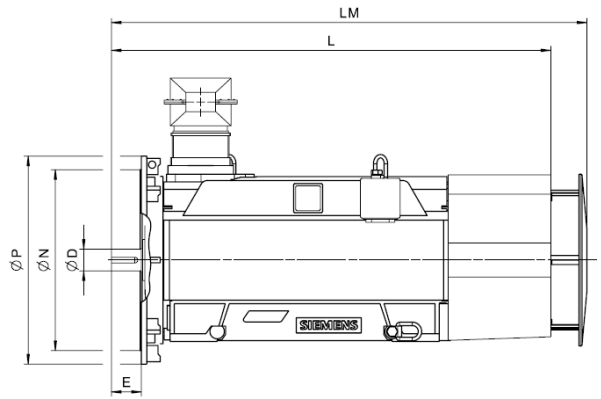

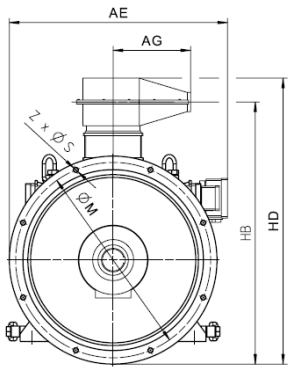

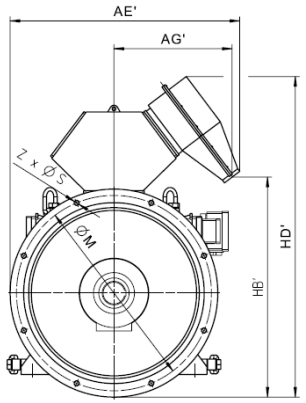

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
6-pole													
1NB1 404-6AC14-4AA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-6AC14-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-6AC14-4AA0	4600	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-6AC14-4CA0	4800	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-6AC14-4AA0	5100	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-6AC14-4CA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-6AC14-4AA0	5400	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-6AC14-4CA0	5500	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-6AC14-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-6AC14-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 500-6AC14-4CA0	6800	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 500-6AC14-4AA0	6600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-6AC14-4AA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-6AC14-4CA0	7200	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-6AC14-4AA0	7300	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-6AC14-4CA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-6AC14-4AA0	7600	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-6AC14-4CA0	7900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-6AC14-4CA0	9600	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-6AC14-4CA0	10300	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-6AC14-4CA0	10800	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
8-pole													

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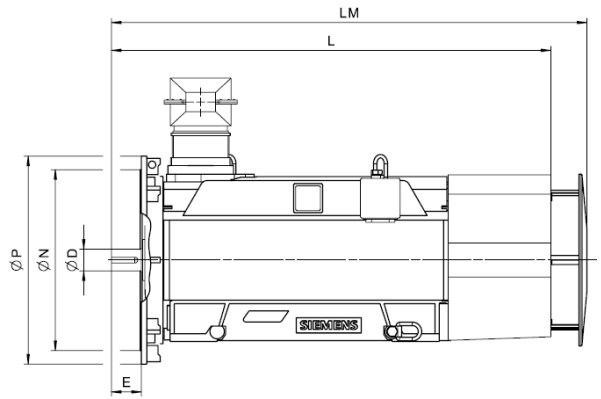

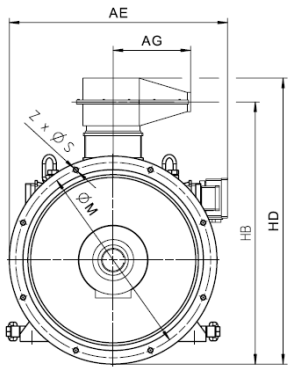

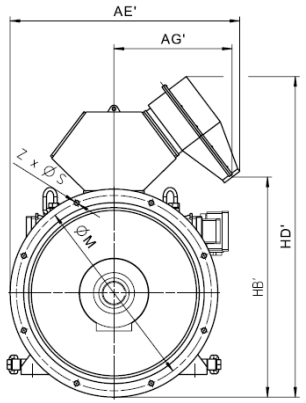

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 404-8AC14-4AA0	4300	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 404-8AC14-4CA0	4500	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-8AC14-4AA0	4600	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 406-8AC14-4CA0	4700	1041	356	120	1285	1499	2242	2392	940	880	1000	24	8
1NB1 452-8AC14-4AA0	5100	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 452-8AC14-4CA0	5200	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-8AC14-4AA0	5300	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 454-8AC14-4CA0	5500	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-8AC14-4CA0	5900	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 456-8AC14-4AA0	5700	1132	356	120	1403	1617	2434	2634	1080	1000	1150	28	8
1NB1 502-8AC14-4CA0	7100	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 502-8AC14-4AA0	6900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-8AC14-4AA0	7200	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 504-8AC14-4CA0	7500	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-8AC14-4AA0	7700	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 506-8AC14-4CA0	7900	1254	371	140	1682	1848	2622	2822	1180	1120	1250	28	16
1NB1 562-8AC14-4CA0	9600	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 564-8AC14-4CA0	10200	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16
1NB1 566-8AC14-4CA0	10800	1384	371	160	1822	1987	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - const torque drive																						
	730	**1NB1 452-2AR40-4A.0**	2985	96.8	0,90	116	2335	2,80	12.7	3600	330	2132	96.5	0,89	105	1676	94.5	0,88	45	1501	92.1	0,85
	710	**1NB1 452-2AR40-4C.0**	2983	96.6	0,89	114	2273	2,50	16.5	3600	325	2085	96.3	0,89	100	1639	94.1	0,87	45	1467	91.5	0,85
	800	**1NB1 454-2AR40-4A.0**	2988	97.0	0,90	128	2557	3,50	14.2	3600	365	2334	96.9	0,90	115	1835	95.0	0,87	50	1643	92.6	0,82
	800	**1NB1 454-2AR40-4C.0**	2986	96.8	0,90	128	2558	3,00	18.4	3600	360	2312	96.7	0,90	110	1817	94.6	0,87	50	1627	92.1	0,82
	890	**1NB1 456-2AR40-4A.0**	2989	97.1	0,91	140	2843	3,70	15.7	3600	405	2590	97.0	0,90	125	2036	95.1	0,87	55	1823	92.7	0,83
	900	**1NB1 456-2AR40-4C.0**	2986	96.9	0,91	142	2878	3,00	20.2	3600	400	2568	96.8	0,90	125	2019	94.7	0,87	55	1808	92.2	0,83
	1070	**1NB1 502-2AR40-4C.0**	2988	96.7	0,89	172	3420	2,90	26.8	3000	480	3080	96.9	0,89	150	2421	95.3	0,87	65	2168	93.1	0,82
	1070	**1NB1 502-2AR40-4A.0**	2987	96.8	0,89	172	3421	3,20	20.9	3000	480	3080	96.9	0,89	150	2421	95.5	0,87	65	2168	93.4	0,83
	1070	**1NB1 504-2AR40-4A.0**	2989	96.9	0,90	170	3418	3,90	23.3	3000	490	3128	97.1	0,90	155	2459	95.6	0,87	70	2202	93.6	0,82
	1070	**1NB1 504-2AR40-4C.0**	2990	96.8	0,90	170	3417	3,40	29.7	3000	490	3128	97.0	0,89	155	2459	95.5	0,86	70	2202	93.3	0,80
	1250	**1NB1 506-2AR40-4A.0**	2989	97.1	0,91	196	3994	3,70	26.4	3000	560	3590	97.2	0,90	175	2822	95.7	0,88	80	2527	93.8	0,83
	1250	**1NB1 506-2AR40-4C.0**	2990	97.0	0,90	198	3992	3,30	33.3	3000	560	3590	97.2	0,90	175	2822	95.6	0,87	80	2527	93.6	0,83
	1520	**1NB1 564-2AR40-4C.0**	2991	97.1	0,91	240	4853	2,90	50.0	3000	680	4357	97.4	0,90	215	3425	96.2	0,89	95	3067	94.5	0,84
	1540	**1NB1 566-2AR40-4C.0**	2992	97.2	0,91	240	4915	3,30	55.2	3000	700	4482	97.5	0,91	220	3523	96.3	0,89	100	3155	94.7	0,84
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - const torque drive																						
	850	**1NB1 452-4AR40-4A.0**	1492	96.7	0,84	146	5440	3,00	19.6	2400	380	4885	96.3	0,83	120	3840	93.7	0,78	55	3438	90.0	0,68
	810	**1NB1 452-4AR40-4C.0**	1492	96.6	0,83	140	5184	2,60	25.2	2400	370	4729	96.3	0,82	115	3717	94.0	0,78	50	3329	90.8	0,70
	810	**1NB1 454-4AR40-4A.0**	1494	96.6	0,83	140	5177	3,90	21.5	2400	370	4721	96.5	0,82	115	3711	93.7	0,75	50	3323	89.5	0,62
	810	**1NB1 454-4AR40-4C.0**	1494	96.6	0,83	140	5177	3,20	27.6	2400	370	4723	96.5	0,82	115	3712	94.1	0,76	50	3324	90.6	0,65
	940	**1NB1 456-4AR40-4A.0**	1494	96.8	0,85	158	6008	3,70	24.8	2400	420	5390	96.6	0,84	130	4237	93.9	0,78	60	3794	90.2	0,67
	940	**1NB1 456-4AR40-4C.0**	1494	96.8	0,85	158	6008	3,00	31.7	2400	420	5391	96.6	0,83	130	4238	94.2	0,78	60	3795	91.1	0,70
	1070	**1NB1 502-4AR40-4C.0**	1493	96.5	0,86	178	6844	2,40	37.3	2200	480	6170	96.4	0,85	150	4850	94.4	0,82	65	4343	91.7	0,76
	1070	**1NB1 502-4AR40-4A.0**	1493	96.4	0,87	178	6844	3,00	28.4	2200	480	6166	96.4	0,86	150	4847	94.2	0,82	65	4340	90.9	0,73
	1160	**1NB1 504-4AR40-4A.0**	1493	96.6	0,87	192	7419	3,00	32.5	2200	520	6679	96.6	0,87	160	5250	94.7	0,83	70	4701	91.9	0,75
	1160	**1NB1 504-4AR40-4C.0**	1493	96.7	0,86	194	7419	2,40	42.4	2200	520	6677	96.7	0,86	160	5249	94.9	0,83	70	4700	92.5	0,77
	1280	**1NB1 506-4AR40-4A.0**	1493	96.8	0,88	210	8187	3,30	37.0	2200	580	7447	96.8	0,87	180	5854	94.7	0,83	80	5242	91.9	0,74
	1280	**1NB1 506-4AR40-4C.0**	1494	96.8	0,86	215	8181	2,60	48.0	2200	580	7443	96.9	0,86	180	5851	95.0	0,83	80	5239	92.7	0,76
	1400	**1NB1 560-4AR40-4C.0**	1493	96.7	0,85	235	8954	2,30	64.6	2000	640	8216	96.9	0,85	200	6458	95.1	0,82	90	5783	92.8	0,76
	1450	**1NB1 560-4AR40-4A.0**	1494	96.7	0,86	240	9268	2,60	48.3	2000	660	8469	96.9	0,85	205	6658	95.0	0,82	90	5962	92.4	0,74
	1545	**1NB1 562-4AR40-4C.0**	1494	96.9	0,86	255	9875	2,50	72.4	2000	700	8985	97.1	0,85	220	7063	95.5	0,81	100	6324	93.4	0,74
	1555	**1NB1 562-4AR40-4A.0**	1495	96.9	0,86	260	9933	2,90	54.5	2000	705	9031	97.1	0,85	220	7099	95.4	0,81	100	6357	92.9	0,72
	1700	**1NB1 564-4AR40-4A.0**	1495	97.0	0,87	280	10859	3,20	59.9	2000	770	9846	97.2	0,86	240	7740	95.4	0,81	105	6931	92.8	0,70
	1680	**1NB1 564-4AR40-4C.0**	1495	97.1	0,86	280	10731	2,80	79.3	2000	765	9798	97.2	0,85	240	7702	95.6	0,81	105	6897	93.3	0,73
	1860	**1NB1 566-4AR40-4A.0**	1495	97.1	0,88	300	11881	3,30	66.6	2000	845	10819	97.3	0,86	265	8504	95.3	0,81	120	7615	92.8	0,71

SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	1865	**1NB1 566-4AR40-4C.0**	1495	97.2	0,87	305	11913	2,80	88.0	2000	845	10821	97.3	0,86	265	8506	95.5	0,82	120	7617	93.3	0,74
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - const torque drive																						
	530	**1NB1 452-6AR40-4A.0**	993	96.2	0,81	94	5097	2,20	28.0	2200	240	4635	95.4	0,80	75	3644	92.5	0,79	35	3263	88.5	0,72
	560	**1NB1 452-6AR40-4C.0**	993	96.3	0,84	96	5385	2,30	36.3	2200	250	4792	95.5	0,83	75	3767	92.4	0,81	35	3373	88.6	0,75
	610	**1NB1 454-6AR40-4A.0**	995	96.3	0,79	112	5854	2,80	31.8	2200	275	5319	95.8	0,78	85	4181	92.7	0,73	40	3744	88.1	0,62
	600	**1NB1 454-6AR40-4C.0**	995	96.4	0,81	106	5758	3,00	41.0	2200	270	5164	95.9	0,80	85	4059	92.8	0,75	35	3635	88.4	0,63
	670	**1NB1 456-6AR40-4A.0**	995	96.4	0,80	120	6430	2,90	36.9	2200	300	5778	96.0	0,79	95	4542	93.2	0,74	40	4067	88.9	0,62
	670	**1NB1 456-6AR40-4C.0**	995	96.5	0,82	118	6430	3,10	47.3	2200	300	5778	96.0	0,81	95	4542	93.2	0,75	40	4067	89.2	0,64
	810	**1NB1 500-6AR40-4C.0**	995	96.5	0,86	136	7774	2,20	59.8	2100	370	7098	96.0	0,86	115	5580	93.6	0,84	50	4996	90.3	0,79
	760	**1NB1 500-6AR40-4A.0**	994	96.3	0,83	132	7301	2,40	46.5	2100	345	6644	95.7	0,83	105	5223	93.0	0,81	50	4677	89.3	0,75
	800	**1NB1 502-6AR40-4A.0**	995	96.4	0,83	138	7678	3,10	52.7	2100	360	6940	96.0	0,83	110	5456	93.2	0,79	50	4885	89.0	0,70
	850	**1NB1 502-6AR40-4C.0**	996	96.5	0,86	142	8150	2,70	67.5	2100	380	7315	96.2	0,85	120	5750	93.8	0,82	55	5149	90.2	0,73
	900	**1NB1 504-6AR40-4A.0**	995	96.5	0,85	152	8638	2,80	59.7	2100	400	7717	96.1	0,84	125	6066	93.6	0,82	55	5432	90.0	0,74
	930	**1NB1 504-6AR40-4C.0**	996	96.7	0,86	156	8917	2,60	76.1	2100	425	8165	96.4	0,86	130	6419	94.2	0,84	60	5748	91.1	0,77
	1000	**1NB1 506-6AR40-4A.0**	995	96.7	0,84	170	9597	3,10	67.3	2100	450	8636	96.4	0,84	140	6789	93.8	0,80	60	6079	90.3	0,71
	1070	**1NB1 506-6AR40-4C.0**	996	96.9	0,86	178	10259	2,70	85.6	2100	480	9237	96.6	0,86	150	7261	94.4	0,83	65	6502	91.4	0,75
	1400	**1NB1 562-6AR40-4C.0**	996	97.2	0,87	230	13423	2,80	120.2	2000	640	12326	97.0	0,87	200	9689	94.9	0,85	90	8676	92.2	0,77
	1520	**1NB1 564-6AR40-4C.0**	996	97.2	0,87	250	14573	2,80	136.7	2000	680	13092	97.1	0,87	210	10291	94.9	0,85	95	9215	92.4	0,78
	1560	**1NB1 566-6AR40-4C.0**	996	97.3	0,87	255	14957	3,10	151.8	2000	710	13621	97.2	0,87	220	10707	95.2	0,84	100	9588	92.8	0,76
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - const torque drive																						
	450	**1NB1 452-8AR40-4A.0**	744	95.8	0,77	85	5776	2,10	28.1	2200	200	5163	94.8	0,77	60	4058	91.0	0,75	25	3634	85.7	0,67
	470	**1NB1 452-8AR40-4C.0**	744	95.8	0,80	85	6032	2,10	36.3	2200	210	5471	94.8	0,80	65	4301	90.9	0,77	30	3851	85.8	0,70
	500	**1NB1 454-8AR40-4A.0**	745	95.9	0,76	95	6409	2,60	31.9	2200	230	5870	95.1	0,76	70	4614	91.0	0,71	30	4132	85.1	0,61
	530	**1NB1 454-8AR40-4C.0**	745	96.0	0,79	97	6793	2,60	41.1	2200	240	6179	95.1	0,78	75	4857	91.1	0,73	35	4350	85.4	0,63
	560	**1NB1 456-8AR40-4A.0**	745	96.0	0,79	102	7178	2,40	37.0	2200	250	6492	95.2	0,78	80	5103	91.7	0,75	35	4570	86.7	0,66
	560	**1NB1 456-8AR40-4C.0**	746	96.0	0,78	104	7168	2,80	47.4	2200	250	6481	95.3	0,78	80	5094	91.3	0,72	35	4562	85.7	0,61
	630	**1NB1 502-8AR40-4C.0**	745	95.6	0,85	108	8075	2,20	67.0	2100	250	6486	95.0	0,83	80	5098	92.1	0,80	35	4565	88.0	0,73
	560	**1NB1 502-8AR40-4A.0**	745	95.8	0,81	100	7178	2,10	52.0	2100	250	6491	94.9	0,80	80	5103	91.9	0,78	35	4569	87.7	0,72
	630	**1NB1 504-8AR40-4A.0**	746	96.0	0,80	114	8064	2,60	58.8	2100	285	7301	95.4	0,79	90	5739	92.5	0,74	40	5139	88.1	0,64
	630	**1NB1 504-8AR40-4C.0**	746	95.8	0,83	110	8064	3,00	75.6	2100	285	7296	95.4	0,81	90	5735	92.5	0,75	40	5135	88.3	0,66
	670	**1NB1 506-8AR40-4C.0**	747	95.7	0,81	120	8565	3,40	85.1	2100	300	7698	95.3	0,79	95	6051	92.4	0,73	40	5419	87.6	0,62
	670	**1NB1 506-8AR40-4A.0**	747	96.0	0,78	124	8565	3,10	66.4	2100	300	7707	95.4	0,77	95	6058	92.6	0,70	40	5425	87.8	0,59
	900	**1NB1 562-8AR40-4C.0**	746	96.7	0,83	156	11521	2,70	119.6	2000	400	10279	96.4	0,83	125	8080	93.9	0,79	55	7235	90.5	0,70
	1000	**1NB1 564-8AR40-4C.0**	747	96.7	0,83	172	12784	3,00	136.3	2000	450	11503	96.5	0,82	140	9042	93.9	0,77	60	8097	90.4	0,67
	1120	**1NB1 566-8AR40-4C.0**	747	96.8	0,82	196	14318	3,20	151.7	2000	500	12832	96.6	0,81	155	10087	93.8	0,76	70	9032	90.2	0,65

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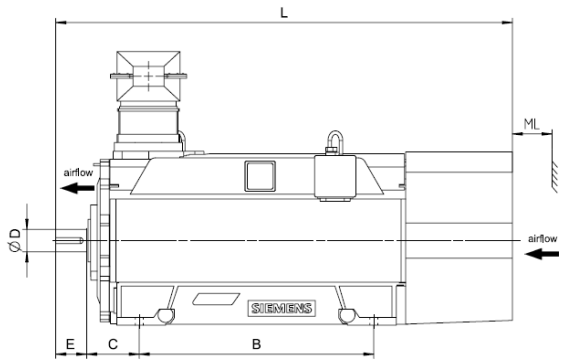

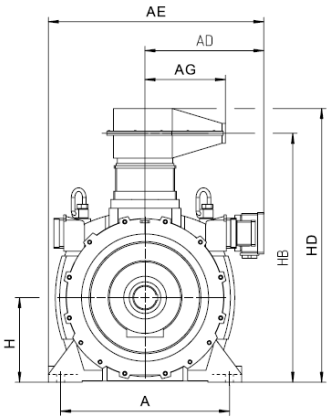

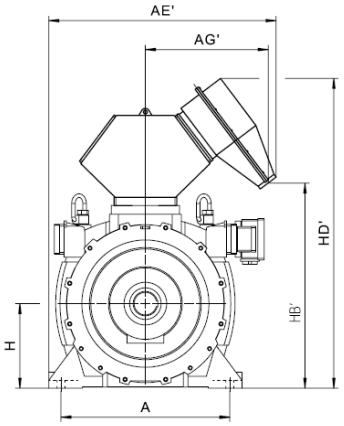

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 452-2AR40-4A.0	4800	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 452-2AR40-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 454-2AR40-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 454-2AR40-4C.0	5200	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 456-2AR40-4A.0	5300	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 456-2AR40-4C.0	5500	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 502-2AR40-4C.0	6600	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 502-2AR40-4A.0	6400	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 504-2AR40-4A.0	6700	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 504-2AR40-4C.0	6900	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 506-2AR40-4A.0	7200	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 506-2AR40-4C.0	7300	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	2457	200
1NB1 564-2AR40-4C.0	9000	1120	684	737	1319	1372	525	693	1400	335	120	165	560	1565	1279	1691	1883	2628	225
1NB1 566-2AR40-4C.0	9400	1120	684	737	1319	1372	525	693	1400	335	120	165	560	1565	1279	1691	1883	2628	225
4-pole																			
1NB1 452-4AR40-4A.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-4AR40-4C.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-4AR40-4A.0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-4AR40-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-4AR40-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-4AR40-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 502-4AR40-4C.0	6600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200

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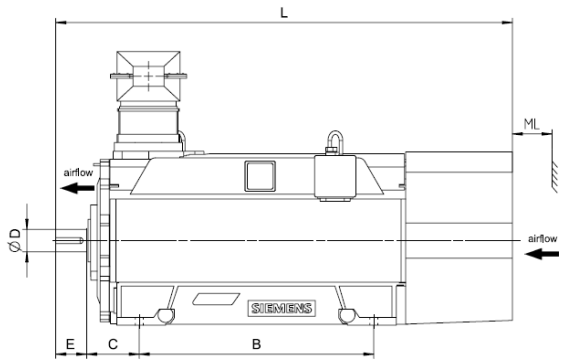

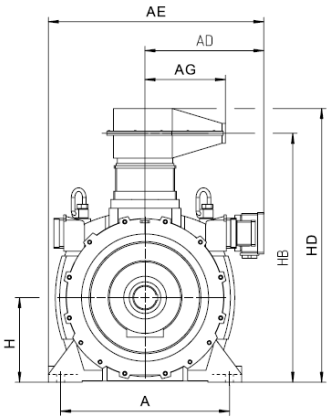

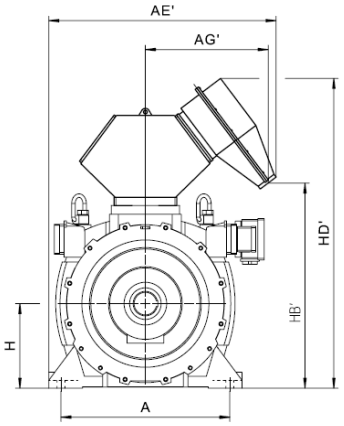

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 502-4AR40-4A.0	6400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-4AR40-4A.0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-4AR40-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-4AR40-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-4AR40-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 560-4AR40-4C.0	8600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 560-4AR40-4A.0	8300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 562-4AR40-4C.0	9100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 562-4AR40-4A.0	8800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-4AR40-4A.0	9100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-4AR40-4C.0	9500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-4AR40-4A.0	9600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-4AR40-4C.0	10000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
6-pole																			
1NB1 452-6AR40-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-6AR40-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-6AR40-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-6AR40-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-6AR40-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-6AR40-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 500-6AR40-4C.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 500-6AR40-4A.0	6300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-6AR40-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200

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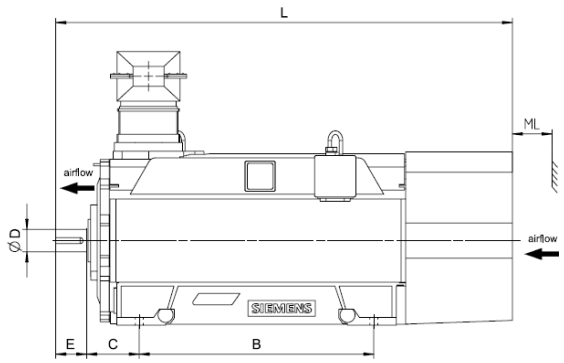

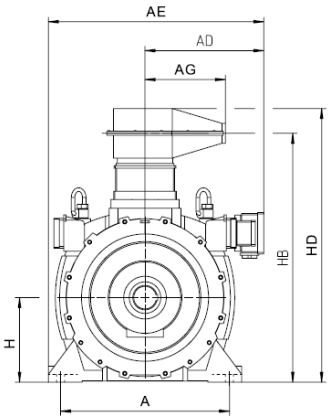

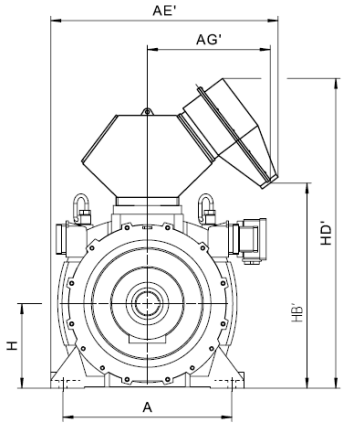

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 502-6AR40-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-6AR40-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-6AR40-4C.0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-6AR40-4A.0	7400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-6AR40-4C.0	7600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 562-6AR40-4C.0	9300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-6AR40-4C.0	9900	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-6AR40-4C.0	10400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
8-pole																			
1NB1 452-8AR40-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-8AR40-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-8AR40-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-8AR40-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-8AR40-4A.0	5400	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-8AR40-4C.0	5600	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 502-8AR40-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-8AR40-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-8AR40-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-8AR40-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-8AR40-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-8AR40-4A.0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 562-8AR40-4C.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-8AR40-4C.0	9800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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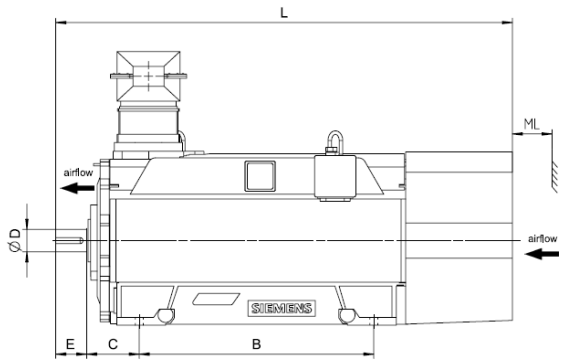

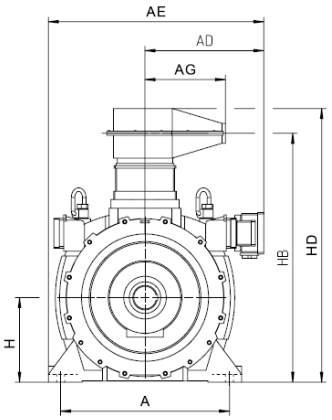

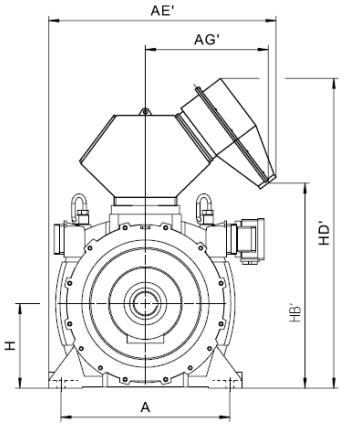

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 566-8AR40-4C.0	10400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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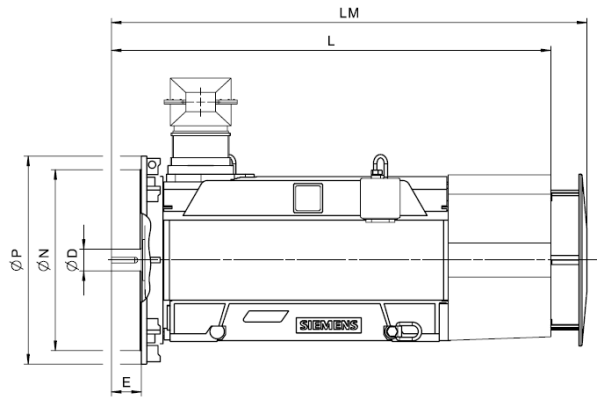

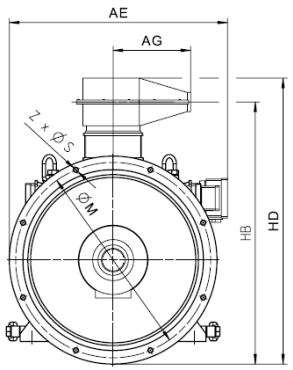

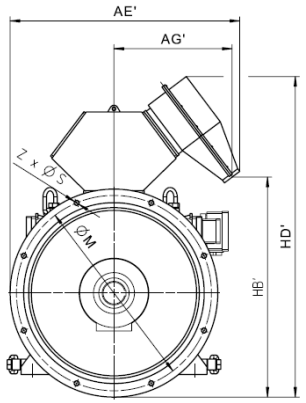

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NB1 452-4AR44-4AA0	5200	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-4AR44-4CA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AR44-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AR44-4CA0	5600	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AR44-4AA0	5800	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AR44-4CA0	6000	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 502-4AR44-4CA0	6900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-4AR44-4AA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AR44-4AA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AR44-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AR44-4AA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AR44-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 560-4AR44-4CA0	9000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 560-4AR44-4AA0	8700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AR44-4CA0	9400	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AR44-4AA0	9100	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AR44-4AA0	9500	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AR44-4CA0	9800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AR44-4AA0	10000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AR44-4CA0	10400	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
6-pole													
1NB1 452-6AR44-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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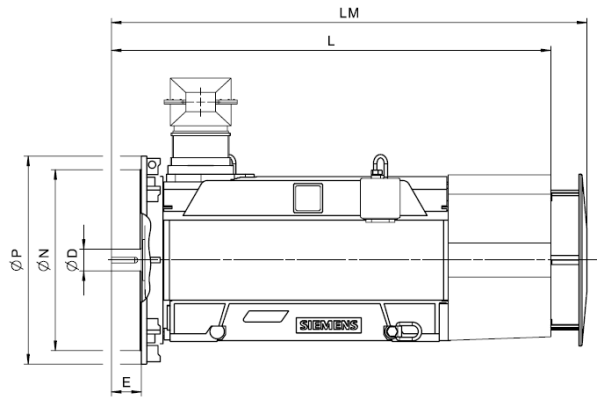

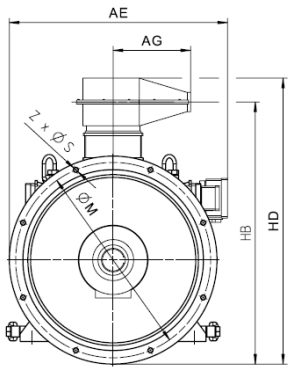

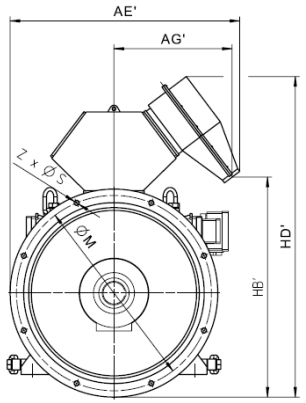

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 452-6AR44-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AR44-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AR44-4CA0	5600	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AR44-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AR44-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 500-6AR44-4CA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 500-6AR44-4AA0	6500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AR44-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AR44-4CA0	7000	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AR44-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AR44-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AR44-4AA0	7600	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AR44-4CA0	7900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-6AR44-4CA0	9700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-6AR44-4CA0	10300	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-6AR44-4CA0	10800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
8-pole													
1NB1 452-8AR44-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-8AR44-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AR44-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AR44-4CA0	5500	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AR44-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AR44-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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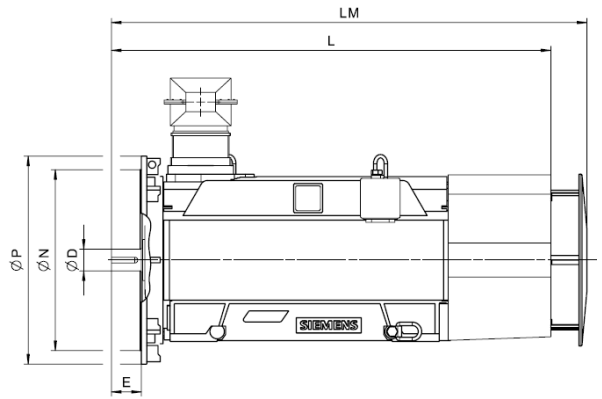

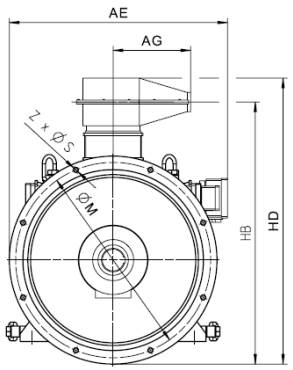

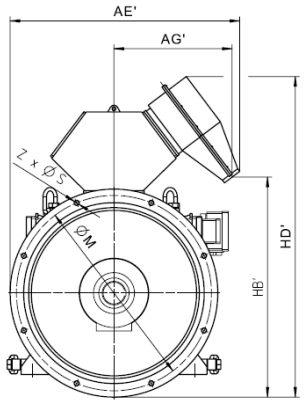

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 502-8AR44-4CA0	7000	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-8AR44-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AR44-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AR44-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AR44-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AR44-4AA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-8AR44-4CA0	9500	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-8AR44-4CA0	10200	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-8AR44-4CA0	10700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - const torque drive																						
	1000	**1NB1 452-2AR30-4CC0**	3579	96.5	0,89	162	2668	2,10	17.1	3600	400	2142	96.5	0,89	125	1684	94.6	0,87	55	1508	92.4	0,85
	1050	**1NB1 454-2AR30-4C.0**	3584	96.6	0,90	168	2798	2,70	18.7	3600	420	2244	96.8	0,89	130	1764	95.1	0,86	60	1580	92.9	0,80
	1200	**1NB1 456-2AR30-4C.0**	3586	96.8	0,90	192	3196	2,80	20.6	3600	480	2564	96.9	0,89	150	2016	95.2	0,86	65	1805	93.0	0,79
	1350	**1NB1 502-2AR30-4CC0**	3586	96.5	0,89	220	3595	2,60	26.5	3600	540	2885	96.9	0,89	170	2268	95.5	0,87	75	2031	93.6	0,82
	1400	**1NB1 504-2AR30-4CC0**	3589	96.6	0,90	225	3725	3,10	29.4	3600	560	2989	97.0	0,90	175	2350	95.5	0,86	80	2104	93.6	0,80
	1600	**1NB1 506-2AR30-4CC0**	3589	96.8	0,91	250	4257	3,10	33.0	3600	640	3416	97.2	0,90	200	2685	95.5	0,87	90	2404	93.6	0,81
	1900	**1NB1 564-2AR30-4CC0**	3589	96.9	0,91	300	5055	2,40	49.5	3600	760	4057	97.4	0,91	240	3189	96.3	0,89	105	2856	94.9	0,86
	2050	**1NB1 566-2AR30-4CC0**	3591	97.0	0,91	320	5451	2,80	55.3	3600	820	4374	97.5	0,91	255	3438	96.4	0,89	115	3079	95.0	0,85
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - const torque drive																						
	1110	**1NB1 452-4AR30-4A.0**	1792	96.6	0,84	190	5915	2,90	19.6	2400	445	4747	96.5	0,83	140	3732	93.9	0,77	60	3342	90.4	0,65
	1100	**1NB1 452-4AR30-4C.0**	1792	96.6	0,83	190	5862	2,40	25.2	2400	440	4704	96.5	0,82	140	3698	94.3	0,77	60	3311	91.4	0,68
	1100	**1NB1 454-4AR30-4A.0**	1793	96.6	0,84	188	5858	3,40	21.5	2400	440	4699	96.6	0,81	140	3694	94.1	0,73	60	3308	90.4	0,60
	1100	**1NB1 454-4AR30-4C.0**	1793	96.6	0,83	190	5858	2,80	27.6	2400	440	4702	96.6	0,81	140	3696	94.5	0,75	60	3310	91.5	0,63
	1120	**1NB1 456-4AR30-4A.0**	1794	96.7	0,84	192	5962	3,90	24.8	2400	450	4782	96.6	0,80	140	3759	94.0	0,72	65	3366	90.3	0,58
	1150	**1NB1 456-4AR30-4C.0**	1794	96.7	0,84	196	6121	3,10	31.7	2400	460	4911	96.7	0,81	145	3860	94.5	0,74	65	3457	91.6	0,62
	1450	**1NB1 502-4AR30-4C.0**	1791	96.4	0,85	245	7731	2,00	37.3	2200	580	6202	96.7	0,85	180	4875	95.0	0,82	80	4365	92.8	0,75
	1450	**1NB1 502-4AR30-4A.0**	1791	96.3	0,86	245	7731	2,50	28.4	2200	580	6207	96.6	0,86	180	4880	94.7	0,82	80	4369	92.1	0,73
	1450	**1NB1 504-4AR30-4A.0**	1792	96.4	0,88	235	7727	2,90	32.5	2200	580	6201	96.7	0,87	180	4875	94.8	0,82	80	4365	92.3	0,73
	1450	**1NB1 504-4AR30-4C.0**	1793	96.5	0,86	240	7723	2,30	42.4	2200	580	6201	96.8	0,86	180	4875	95.1	0,82	80	4365	93.0	0,76
	1610	**1NB1 506-4AR30-4A.0**	1793	96.5	0,88	265	8575	3,30	37.0	2200	645	6879	96.8	0,86	200	5408	94.7	0,81	90	4842	92.0	0,70
	1650	**1NB1 506-4AR30-4C.0**	1793	96.7	0,87	270	8788	2,50	48.0	2200	660	7050	96.9	0,86	205	5542	95.1	0,81	90	4963	92.9	0,73
	1850	**1NB1 560-4AR30-4C.0**	1792	96.4	0,84	315	9858	1,80	64.6	2000	740	7914	96.9	0,85	230	6221	95.6	0,82	105	5570	93.8	0,77
	1870	**1NB1 560-4AR30-4A.0**	1792	96.3	0,85	315	9965	2,10	48.3	2000	750	7995	96.9	0,85	235	6284	95.5	0,82	105	5627	93.5	0,75
	2000	**1NB1 562-4AR30-4C.0**	1793	96.7	0,86	335	10652	2,20	72.4	2000	800	8545	97.1	0,86	250	6717	95.6	0,82	110	6015	93.8	0,76
	2015	**1NB1 562-4AR30-4A.0**	1794	96.5	0,87	335	10726	2,50	54.5	2000	805	8592	97.0	0,86	250	6754	95.5	0,82	110	6048	93.4	0,74
	2155	**1NB1 564-4AR30-4A.0**	1794	96.7	0,88	350	11471	2,70	59.9	2000	860	9187	97.1	0,86	270	7222	95.4	0,82	120	6467	93.2	0,73
	2150	**1NB1 564-4AR30-4C.0**	1794	96.8	0,87	355	11444	2,30	79.3	2000	860	9182	97.2	0,86	270	7218	95.6	0,82	120	6463	93.7	0,75
	2350	**1NB1 566-4AR30-4A.0**	1794	96.8	0,88	385	12509	2,90	66.6	2000	940	10036	97.1	0,87	295	7889	95.2	0,82	130	7064	92.9	0,72
	2355	**1NB1 566-4AR30-4C.0**	1794	96.9	0,88	385	12535	2,50	88.0	2000	940	10039	97.2	0,86	295	7892	95.4	0,82	130	7067	93.4	0,74
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - const torque drive																						
	750	**1NB1 452-6AR30-4A.0**	1193	96.2	0,79	136	6003	2,00	28.0	2200	300	4819	95.9	0,79	95	3788	93.4	0,76	40	3392	89.8	0,67
	770	**1NB1 452-6AR30-4C.0**	1193	96.4	0,83	134	6163	2,20	36.3	2200	310	4947	95.9	0,82	95	3889	93.4	0,79	45	3482	89.9	0,70
	750	**1NB1 454-6AR30-4A.0**	1194	96.3	0,81	134	5998	2,40	31.8	2200	300	4812	96.0	0,79	95	3782	93.5	0,74	40	3387	89.8	0,63
	800	**1NB1 454-6AR30-4C.0**	1194	96.4	0,84	138	6398	2,50	41.0	2200	320	5135	96.1	0,82	100	4037	93.5	0,77	45	3615	90.1	0,68

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SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	850	**1NB1 456-6AR30-4A.0**	1195	96.4	0,81	152	6792	2,50	36.9	2200	340	5451	96.2	0,79	105	4285	93.7	0,74	45	3837	90.2	0,63
	900	**1NB1 456-6AR30-4C.0**	1194	96.6	0,84	154	7198	2,60	47.3	2200	360	5775	96.2	0,82	115	4539	93.7	0,77	50	4065	90.4	0,67
	1100	**1NB1 500-6AR30-4C.0**	1194	96.4	0,86	184	8798	1,90	59.8	2100	440	7061	96.3	0,86	135	5550	94.2	0,85	60	4970	91.4	0,79
	1000	**1NB1 500-6AR30-4A.0**	1193	96.3	0,83	174	8004	2,20	46.5	2100	400	6428	96.1	0,83	125	5053	93.7	0,81	55	4525	90.5	0,75
	1110	**1NB1 502-6AR30-4A.0**	1193	96.5	0,83	192	8885	2,30	52.7	2100	445	7131	96.3	0,83	140	5606	93.9	0,81	60	5020	90.8	0,74
	1170	**1NB1 502-6AR30-4C.0**	1195	96.6	0,86	196	9350	2,10	67.5	2100	470	7509	96.5	0,86	145	5902	94.5	0,84	65	5285	91.8	0,77
	1200	**1NB1 504-6AR30-4A.0**	1194	96.6	0,85	205	9597	2,50	59.7	2100	480	7707	96.4	0,84	150	6058	94.0	0,81	65	5425	90.9	0,73
	1260	**1NB1 504-6AR30-4C.0**	1195	96.7	0,87	210	10069	2,30	76.1	2100	505	8080	96.7	0,86	160	6352	94.6	0,84	70	5688	92.0	0,76
	1250	**1NB1 506-6AR30-4A.0**	1195	96.6	0,85	210	9989	2,90	67.3	2100	500	8017	96.5	0,84	155	6302	94.1	0,79	70	5643	90.8	0,69
	1310	**1NB1 506-6AR30-4C.0**	1196	96.8	0,87	215	10460	2,60	85.6	2100	525	8392	96.7	0,85	165	6597	94.7	0,81	75	5907	91.8	0,72
	1650	**1NB1 562-6AR30-4C.0**	1195	97.0	0,87	270	13185	2,60	120.2	2000	660	10578	97.1	0,87	205	8315	95.3	0,84	90	7446	93.1	0,77
	1970	**1NB1 564-6AR30-4C.0**	1195	97.2	0,88	320	15742	2,40	136.7	2000	790	12634	97.2	0,88	245	9931	95.3	0,86	110	8893	93.1	0,79
	2120	**1NB1 566-6AR30-4C.0**	1195	97.3	0,88	345	16941	2,50	151.8	2000	850	13592	97.3	0,87	265	10684	95.3	0,85	120	9567	93.2	0,79
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - const torque drive																						
	630	**1NB1 452-8AR30-4A.0**	893	95.7	0,78	118	6737	1,90	28.1	2200	250	5410	95.1	0,77	80	4252	91.8	0,75	35	3808	87.0	0,66
	650	**1NB1 452-8AR30-4C.0**	893	95.8	0,80	118	6951	1,90	36.3	2200	260	5580	95.2	0,80	80	4387	91.8	0,76	35	3928	87.1	0,68
	700	**1NB1 454-8AR30-4A.0**	893	96.0	0,78	130	7485	2,00	31.9	2200	280	6010	95.5	0,77	85	4725	92.3	0,74	40	4231	87.9	0,65
	700	**1NB1 454-8AR30-4C.0**	894	96.0	0,80	126	7477	2,10	41.1	2200	280	6003	95.5	0,79	85	4719	92.4	0,75	40	4225	88.0	0,65
	750	**1NB1 456-8AR30-4A.0**	894	96.1	0,79	138	8011	2,20	37.0	2200	300	6428	95.6	0,77	95	5053	92.4	0,73	40	4525	87.9	0,63
	750	**1NB1 456-8AR30-4C.0**	895	96.1	0,80	136	8002	2,30	47.4	2200	300	6425	95.6	0,78	95	5050	92.4	0,73	40	4522	87.9	0,63
	730	**1NB1 502-8AR30-4C.0**	895	95.7	0,85	124	7789	2,20	67.0	2100	290	6254	95.3	0,83	90	4916	92.7	0,80	40	4402	89.2	0,73
	710	**1NB1 502-8AR30-4A.0**	894	95.8	0,81	126	7584	1,90	52.0	2100	285	6085	95.3	0,80	90	4783	92.7	0,77	40	4283	89.1	0,70
	800	**1NB1 504-8AR30-4C.0**	896	95.7	0,84	138	8526	2,70	75.6	2100	320	6843	95.4	0,81	100	5379	92.9	0,76	45	4816	89.0	0,66
	800	**1NB1 504-8AR30-4A.0**	896	95.9	0,80	144	8526	2,60	58.8	2100	320	6845	95.5	0,77	100	5381	92.9	0,70	45	4818	88.6	0,59
	850	**1NB1 506-8AR30-4A.0**	896	96.0	0,81	152	9059	2,50	66.4	2100	340	7277	95.6	0,79	105	5720	93.0	0,73	45	5122	89.1	0,64
	850	**1NB1 506-8AR30-4C.0**	896	95.8	0,84	146	9059	2,90	85.1	2100	340	7267	95.5	0,81	105	5712	92.9	0,75	45	5115	89.2	0,65
	1120	**1NB1 562-8AR30-4C.0**	895	96.6	0,84	192	11950	2,30	119.6	2000	450	9588	96.6	0,84	140	7537	94.3	0,80	60	6749	91.6	0,72
	1270	**1NB1 564-8AR30-4C.0**	895	96.7	0,85	215	13550	2,30	136.3	2000	510	10869	96.6	0,84	160	8544	94.4	0,80	70	7651	91.6	0,73
	1400	**1NB1 566-8AR30-4C.0**	896	96.8	0,84	240	14921	2,60	151.7	2000	560	11972	96.7	0,83	175	9411	94.4	0,78	80	8427	91.5	0,69

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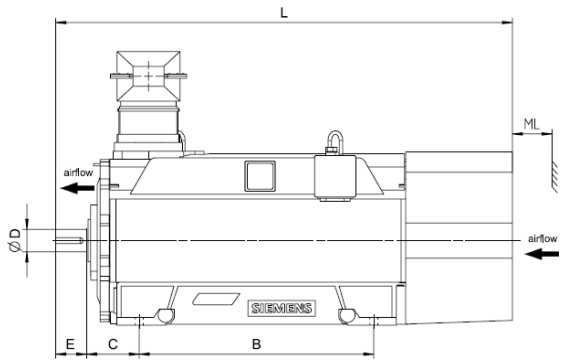

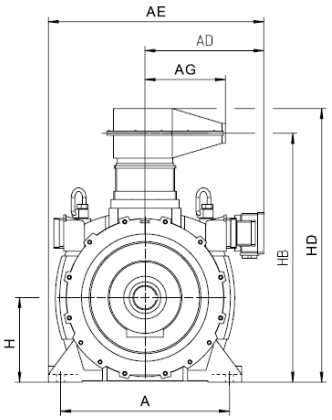

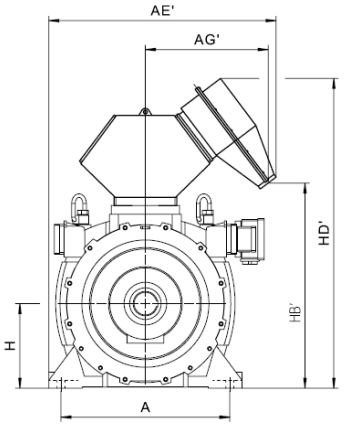

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 452-2AR30-4CC0	5200	900	557	737	1072	1252	525	693	1250	500	95	130	450	1329	1044	1456	1647	2584	180
1NB1 454-2AR30-4C.0	5200	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 456-2AR30-4C.0	5400	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	2289	180
1NB1 502-2AR30-4CC0	6800	1000	629	737	1194	1302	525	693	1320	560	110	165	500	1440	1155	1567	1758	2782	200
1NB1 504-2AR30-4CC0	7100	1000	629	737	1194	1302	525	693	1320	560	110	165	500	1440	1155	1567	1758	2782	200
1NB1 506-2AR30-4CC0	7600	1000	629	737	1194	1302	525	693	1320	560	110	165	500	1440	1155	1567	1758	2782	200
1NB1 564-2AR30-4CC0	9100	1120	684	737	1319	1372	525	693	1400	600	120	165	560	1565	1279	1691	1883	2913	225
1NB1 566-2AR30-4CC0	9500	1120	684	737	1319	1372	525	693	1400	600	120	165	560	1565	1279	1691	1883	2913	225
4-pole																			
1NB1 452-4AR30-4A.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-4AR30-4C.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-4AR30-4A.0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-4AR30-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-4AR30-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-4AR30-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 502-4AR30-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-4AR30-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-4AR30-4A.0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-4AR30-4C.0	7000	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-4AR30-4A.0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-4AR30-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 560-4AR30-4C.0	8600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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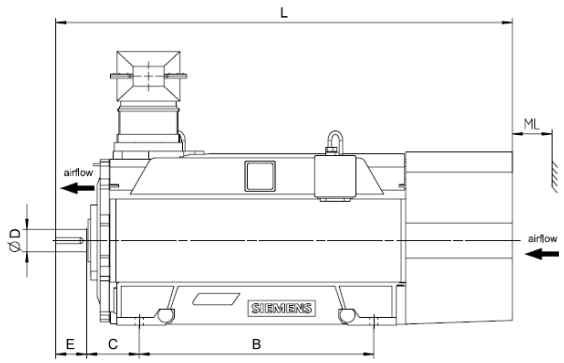

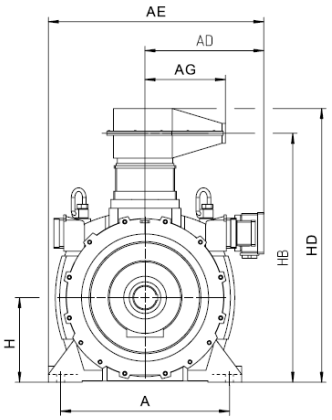

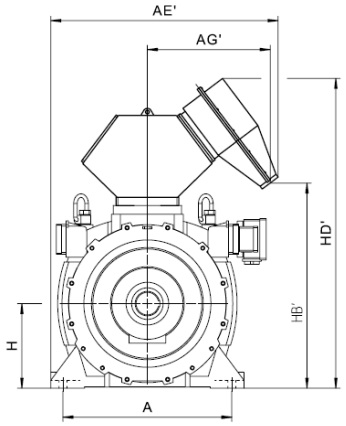

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 560-4AR30-4A.0	8300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 562-4AR30-4C.0	9000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 562-4AR30-4A.0	8700	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-4AR30-4A.0	9100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-4AR30-4C.0	9500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-4AR30-4A.0	9600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-4AR30-4C.0	10000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
6-pole																			
1NB1 452-6AR30-4A.0	4900	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-6AR30-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-6AR30-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-6AR30-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-6AR30-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-6AR30-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 500-6AR30-4C.0	6400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 500-6AR30-4A.0	6200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-6AR30-4A.0	6600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-6AR30-4C.0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-6AR30-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-6AR30-4C.0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-6AR30-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-6AR30-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 562-6AR30-4C.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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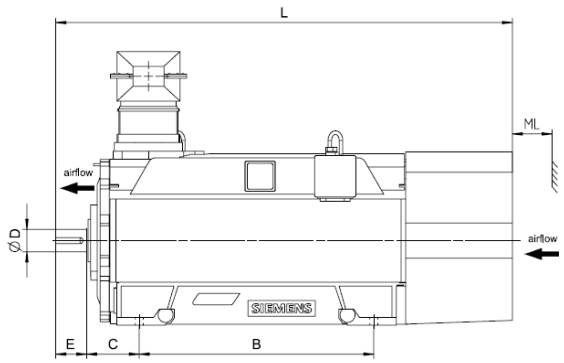

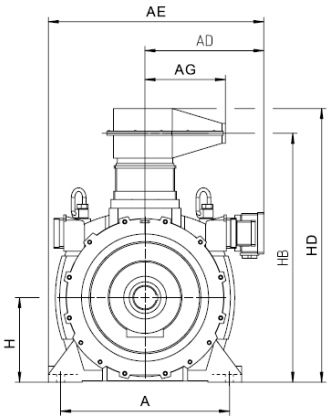

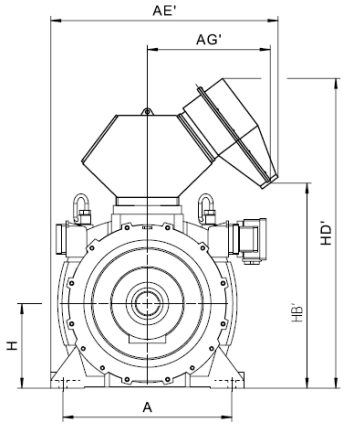

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 564-6AR30-4C.0	9800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-6AR30-4C.0	10400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
8-pole																			
1NB1 452-8AR30-4A.0	4800	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 452-8AR30-4C.0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-8AR30-4A.0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 454-8AR30-4C.0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-8AR30-4A.0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 456-8AR30-4C.0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	2434	180
1NB1 502-8AR30-4C.0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 502-8AR30-4A.0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-8AR30-4C.0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 504-8AR30-4A.0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-8AR30-4A.0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 506-8AR30-4C.0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	2622	200
1NB1 562-8AR30-4C.0	9200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 564-8AR30-4C.0	9800	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225
1NB1 566-8AR30-4C.0	10300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	2783	225

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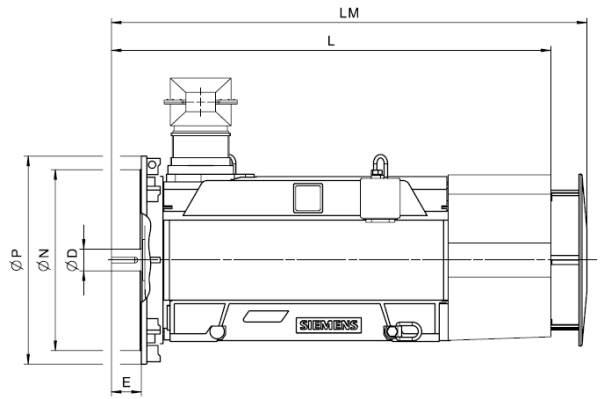

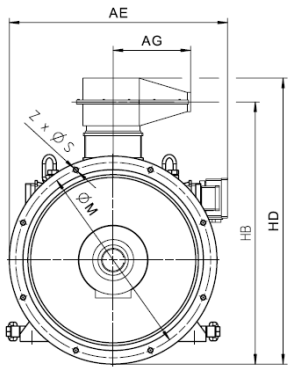

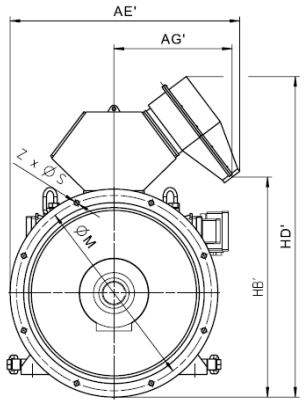

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NB1 452-4AR34-4AA0	5200	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-4AR34-4CA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AR34-4AA0	5400	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-4AR34-4CA0	5600	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AR34-4AA0	5800	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-4AR34-4CA0	6000	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 502-4AR34-4CA0	6900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-4AR34-4AA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AR34-4AA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-4AR34-4CA0	7300	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AR34-4AA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-4AR34-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 560-4AR34-4CA0	9000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 560-4AR34-4AA0	8700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AR34-4CA0	9400	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 562-4AR34-4AA0	9100	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AR34-4AA0	9500	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-4AR34-4CA0	9800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AR34-4AA0	10000	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-4AR34-4CA0	10300	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
6-pole													
1NB1 452-6AR34-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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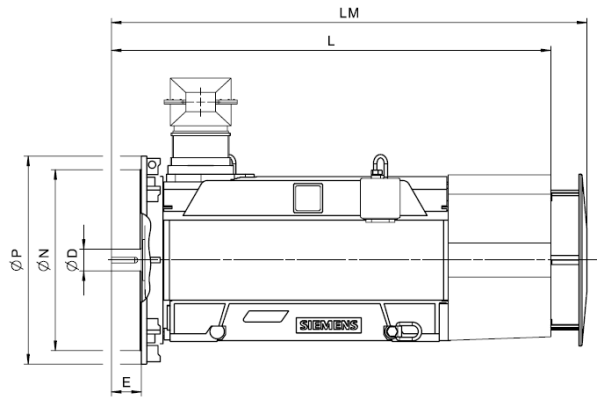

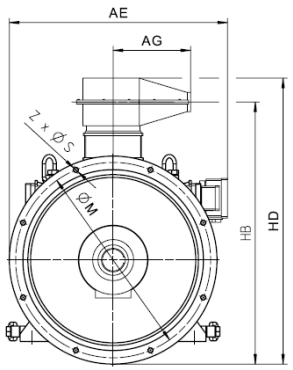

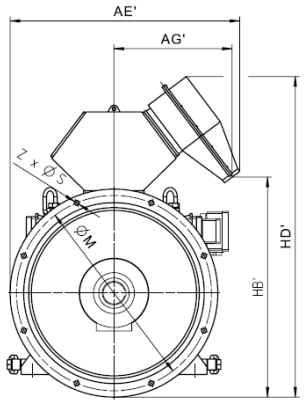

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 452-6AR34-4CA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AR34-4AA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-6AR34-4CA0	5500	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AR34-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-6AR34-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 500-6AR34-4CA0	6700	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 500-6AR34-4AA0	6500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AR34-4AA0	6900	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-6AR34-4CA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AR34-4AA0	7200	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-6AR34-4CA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AR34-4AA0	7600	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-6AR34-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-6AR34-4CA0	9600	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-6AR34-4CA0	10200	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-6AR34-4CA0	10800	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
8-pole													
1NB1 452-8AR34-4AA0	5100	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 452-8AR34-4CA0	5200	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AR34-4AA0	5300	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 454-8AR34-4CA0	5500	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AR34-4AA0	5700	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8
1NB1 456-8AR34-4CA0	5900	1132	525	120	1454	1581	2434	2634	1080	1000	1150	28	8

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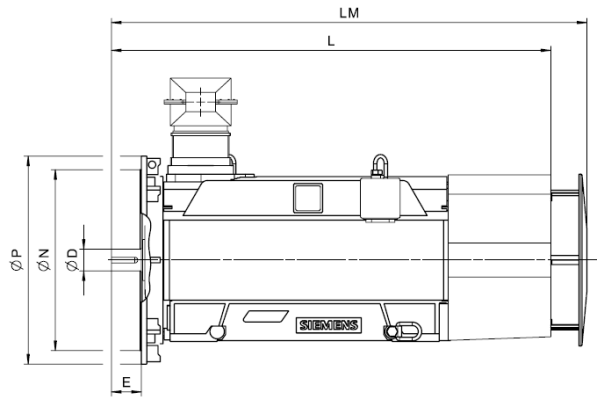

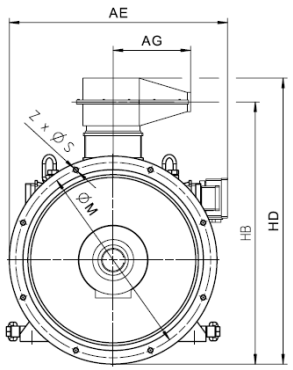

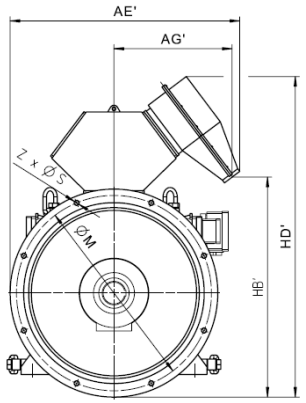

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 502-8AR34-4CA0	7000	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 502-8AR34-4AA0	6800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AR34-4CA0	7400	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 504-8AR34-4AA0	7100	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AR34-4AA0	7500	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 506-8AR34-4CA0	7800	1254	525	140	1565	1692	2622	2822	1180	1120	1250	28	16
1NB1 562-8AR34-4CA0	9600	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 564-8AR34-4CA0	10100	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16
1NB1 566-8AR34-4CA0	10700	1384	525	160	1705	1831	2783	3023	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC416 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - const torque drive																						
730	640	**1NB1 402-2BC00-4AA0**	2980	96.6	0,93	680	2339	3,60	10.0	3600	345	2214	95.7	0,92	120	1987	92.8	0,90	55	1884	88.1	0,90
690	610	**1NB1 402-2BC00-4CA0**	2982	96.5	0,93	640	2210	3,70	12.3	3600	325	2092	95.6	0,91	115	1878	92.9	0,90	55	1780	88.4	0,90
750	660	**1NB1 404-2BC00-4AA0**	2980	96.7	0,94	690	2403	3,90	11.0	3600	355	2275	95.7	0,93	125	2042	92.8	0,92	60	1935	88.1	0,92
710	630	**1NB1 404-2BC00-4CA0**	2982	96.6	0,94	650	2274	4,00	13.5	3600	335	2153	95.6	0,93	120	1932	92.9	0,91	55	1831	88.6	0,91
850	750	**1NB1 406-2BC00-4AA0**	2982	96.9	0,94	780	2722	3,90	12.2	3600	400	2578	96.0	0,93	140	2313	93.5	0,91	65	2193	89.3	0,91
850	750	**1NB1 406-2BC00-4CA0**	2983	96.8	0,94	780	2721	3,80	14.9	3600	400	2577	95.9	0,93	140	2313	93.4	0,91	65	2192	89.4	0,91
900	790	**1NB1 452-2BC00-4AA0**	2984	97.0	0,93	830	2880	2,90	12.6	3600	425	2726	96.2	0,92	150	2447	93.6	0,91	70	2319	89.3	0,91
900	790	**1NB1 452-2BC00-4CA0**	2984	96.9	0,93	840	2880	2,80	17.1	3600	425	2726	96.1	0,92	150	2447	93.5	0,91	70	2319	89.3	0,91
1000	880	**1NB1 454-2BC00-4AA0**	2983	97.0	0,94	920	3201	2,80	14.0	3600	470	3030	96.1	0,93	165	2719	93.4	0,92	80	2577	88.9	0,92
1000	880	**1NB1 454-2BC00-4CA0**	2984	96.9	0,94	920	3200	2,70	19.0	3600	470	3030	96.0	0,93	165	2719	93.3	0,92	80	2577	88.9	0,92
1160	1020	**1NB1 456-2BC00-4AA0**	2985	97.3	0,94	1060	3711	3,30	15.5	3600	545	3516	96.5	0,93	195	3155	94.1	0,92	90	2990	90.3	0,92
1160	1020	**1NB1 456-2BC00-4CA0**	2986	97.2	0,94	1060	3710	3,10	20.9	3600	545	3513	96.4	0,94	195	3152	94.1	0,92	90	2988	90.4	0,92
1150	1010	**1NB1 502-2BC00-4CA0**	2985	96.8	0,90	1100	3679	2,80	27.1	3000	540	3483	95.9	0,90	195	3126	93.7	0,89	90	2963	90.1	0,89
1150	1010	**1NB1 502-2BC00-4AA0**	2984	96.9	0,89	1120	3680	2,80	20.9	3000	540	3483	96.1	0,89	190	3126	93.7	0,88	90	2963	89.9	0,89
1450	1280	**1NB1 504-2BC00-4AA0**	2987	97.2	0,90	1380	4636	3,40	23.3	3000	685	4389	96.4	0,90	245	3939	94.3	0,89	115	3733	91.0	0,89
1450	1280	**1NB1 504-2BC00-4CA0**	2988	97.1	0,91	1380	4634	3,30	30.0	3000	685	4387	96.2	0,90	245	3937	94.3	0,89	115	3732	91.1	0,89
1500	1320	**1NB1 506-2BC00-4AA0**	2987	97.2	0,91	1420	4795	3,70	26.3	3000	705	4539	96.3	0,91	250	4073	94.3	0,90	115	3860	91.0	0,90
1510	1330	**1NB1 506-2BC00-4CA0**	2988	97.1	0,91	1420	4826	3,10	33.2	3000	710	4569	96.3	0,91	255	4100	94.3	0,90	120	3886	91.1	0,90
1800	1590	**1NB1 564-2BC00-4CA0**	2990	97.2	0,91	1700	5749	3,00	49.9	3000	850	5442	96.4	0,90	305	4884	94.7	0,90	140	4629	92.0	0,90
1910	1680	**1NB1 566-2BC00-4CA0**	2990	97.2	0,92	1780	6100	3,10	55.2	3000	900	5774	96.4	0,91	320	5182	94.6	0,91	150	4912	91.8	0,91
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - const torque drive																						
800	710	**1NB1 404-4BC00-4AA0**	1491	96.5	0,89	780	5124	3,40	15.6	2600	375	4850	94.9	0,88	135	4352	92.0	0,87	60	4125	87.5	0,87
850	750	**1NB1 404-4BC00-4CA0**	1489	96.5	0,89	830	5451	2,80	19.8	2600	400	5162	95.0	0,88	140	4633	91.8	0,88	65	4391	86.6	0,88
850	750	**1NB1 406-4BC00-4AA0**	1492	96.6	0,89	830	5440	3,80	17.4	2600	400	5151	95.0	0,88	140	4623	92.4	0,87	65	4381	88.4	0,87
900	790	**1NB1 406-4BC00-4CA0**	1490	96.6	0,89	880	5768	3,10	22.1	2600	425	5461	95.3	0,88	150	4901	92.4	0,87	70	4645	87.8	0,88
1000	880	**1NB1 452-4BC00-4AA0**	1490	96.7	0,90	960	6409	2,80	23.9	2400	470	6068	95.5	0,89	165	5446	92.5	0,87	75	5161	87.9	0,88
1000	880	**1NB1 452-4BC00-4CA0**	1490	96.7	0,89	970	6409	2,50	30.9	2400	470	6069	95.5	0,88	165	5446	92.5	0,87	75	5162	87.7	0,87
1150	1010	**1NB1 454-4BC00-4AA0**	1491	96.8	0,90	1100	7365	2,90	26.3	2400	540	6976	95.6	0,89	190	6261	92.7	0,88	90	5934	88.2	0,88
1150	1010	**1NB1 454-4BC00-4CA0**	1491	96.8	0,89	1120	7365	2,60	33.8	2400	540	6977	95.6	0,88	190	6262	92.7	0,87	90	5935	88.2	0,87
1250	1100	**1NB1 456-4BC00-4CA0**	1491	97.0	0,90	1200	8006	2,80	39.0	2400	590	7579	95.8	0,89	210	6802	93.2	0,87	95	6447	89.0	0,88
1250	1100	**1NB1 456-4BC00-4AA0**	1491	97.0	0,91	1180	8006	3,10	30.4	2400	590	7579	95.7	0,89	210	6802	93.1	0,88	95	6447	89.0	0,88
1250	1100	**1NB1 502-4BC00-4CA0**	1491	96.5	0,87	1240	8006	2,30	37.2	2200	590	7582	95.3	0,87	210	6804	92.1	0,86	95	6449	87.1	0,86
1250	1100	**1NB1 502-4BC00-4AA0**	1491	96.4	0,88	1240	8006	3,00	28.4	2200	590	7584	95.1	0,87	210	6806	91.9	0,86	95	6451	86.9	0,87
1400	1230	**1NB1 504-4BC00-4CA0**	1492	96.7	0,86	1400	8960	2,30	42.4	2200	660	8491	95.6	0,86	235	7620	92.9	0,85	110	7223	88.6	0,86

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SIMOTICS HV C - 1NB1 IC416 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1400	1230	**1NB1 504-4BC00-4AA0**	1491	96.7	0,88	1380	8966	3,00	32.5	2200	660	8492	95.4	0,87	235	7621	92.6	0,86	110	7224	88.3	0,86
1420	1250	**1NB1 506-4BC00-4AA0**	1492	96.7	0,89	1380	9088	3,30	37.0	2200	670	8607	95.4	0,89	235	7724	92.7	0,87	110	7321	88.7	0,87
1420	1250	**1NB1 506-4BC00-4CA0**	1492	96.8	0,88	1400	9088	2,60	48.0	2200	670	8606	95.6	0,88	240	7723	93.0	0,87	110	7320	89.0	0,87
1500	1320	**1NB1 562-4BC00-4AA0**	1493	96.9	0,89	1460	9594	2,90	54.4	2000	710	9082	95.8	0,88	250	8150	93.2	0,87	115	7725	89.2	0,87
1500	1320	**1NB1 562-4BC00-4CA0**	1493	97.0	0,88	1480	9594	2,50	72.4	2000	710	9085	95.9	0,87	250	8153	93.2	0,86	115	7727	89.0	0,87
1800	1590	**1NB1 564-4BC00-4AA0**	1493	97.2	0,89	1740	11513	2,90	59.8	2000	850	10907	96.1	0,88	300	9789	93.8	0,87	140	9278	90.3	0,87
1800	1590	**1NB1 564-4BC00-4CA0**	1493	97.3	0,88	1760	11513	2,50	79.3	2000	850	10900	96.2	0,87	300	9782	93.9	0,86	140	9271	90.3	0,87
1900	1680	**1NB1 566-4BC00-4AA0**	1493	97.2	0,90	1820	12152	2,80	66.6	2000	895	11516	96.0	0,89	320	10335	93.7	0,88	150	9795	90.0	0,88
1910	1680	**1NB1 566-4BC00-4CA0**	1493	97.3	0,89	1840	12216	2,50	88.0	2000	900	11577	96.1	0,89	320	10390	93.7	0,88	150	9848	90.0	0,88
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - const torque drive																						
680	600	**1NB1 404-6BC00-4AA0**	994	96.2	0,88	670	6533	3,20	25.9	2400	320	6184	94.2	0,86	115	5550	90.5	0,86	55	5260	85.3	0,86
680	600	**1NB1 404-6BC00-4CA0**	993	96.2	0,87	680	6539	2,70	33.3	2400	320	6193	94.5	0,86	115	5558	90.8	0,86	50	5268	85.1	0,87
710	630	**1NB1 406-6BC00-4AA0**	995	96.3	0,88	700	6814	3,50	29.6	2400	335	6452	94.3	0,86	120	5790	91.0	0,85	55	5488	86.2	0,86
710	630	**1NB1 406-6BC00-4CA0**	994	96.4	0,88	700	6821	3,00	38.1	2400	335	6459	94.8	0,87	120	5796	91.4	0,86	55	5494	86.4	0,86
800	710	**1NB1 452-6BC00-4AA0**	993	96.2	0,85	820	7693	2,80	34.7	2200	375	7285	94.4	0,84	135	6538	90.8	0,84	60	6196	85.2	0,85
800	710	**1NB1 452-6BC00-4CA0**	992	96.3	0,84	830	7701	2,50	43.3	2200	375	7290	94.6	0,84	135	6543	90.8	0,84	60	6201	85.0	0,85
970	860	**1NB1 454-6BC00-4AA0**	993	96.3	0,86	980	9328	2,70	39.5	2200	455	8836	94.5	0,85	160	7930	90.9	0,85	75	7516	85.4	0,86
960	850	**1NB1 454-6BC00-4CA0**	992	96.4	0,85	980	9241	2,40	49.1	2200	450	8750	94.7	0,85	160	7852	91.0	0,85	75	7442	85.2	0,86
1000	880	**1NB1 456-6BC00-4AA0**	995	96.5	0,85	1020	9597	3,50	45.8	2200	470	9090	94.7	0,83	165	8158	91.6	0,82	80	7732	87.0	0,83
1010	890	**1NB1 456-6BC00-4CA0**	994	96.6	0,85	1020	9703	3,00	56.7	2200	475	9187	95.1	0,84	170	8245	92.0	0,84	80	7814	87.3	0,84
1020	900	**1NB1 500-6BC00-4CA0**	993	96.5	0,86	1020	9809	1,80	59.8	2100	480	9289	95.1	0,86	170	8336	91.6	0,87	80	7901	86.3	0,88
1000	880	**1NB1 500-6BC00-4AA0**	991	96.2	0,83	1040	9636	2,00	46.4	2100	470	9128	94.6	0,84	165	8192	90.6	0,85	75	7764	84.5	0,86
1210	1070	**1NB1 502-6BC00-4AA0**	991	96.5	0,83	1260	11660	2,10	52.7	2100	570	11040	95.0	0,84	200	9908	91.3	0,84	90	9390	85.7	0,85
1300	1150	**1NB1 502-6BC00-4CA0**	993	96.7	0,86	1300	12502	1,80	67.5	2100	610	11837	95.4	0,86	215	10623	92.1	0,87	100	10069	87.0	0,88
1320	1160	**1NB1 504-6BC00-4CA0**	993	96.7	0,87	1320	12694	1,90	76.1	2100	620	12023	95.4	0,87	220	10790	92.1	0,88	100	10227	87.1	0,89
1250	1100	**1NB1 504-6BC00-4AA0**	992	96.5	0,85	1280	12033	2,10	59.6	2100	590	11402	95.0	0,86	205	10233	91.3	0,86	95	9699	85.8	0,87
1460	1290	**1NB1 506-6BC00-4CA0**	994	96.9	0,87	1440	14026	2,10	85.5	2100	690	13283	95.6	0,87	245	11920	92.7	0,88	115	11298	88.3	0,88
1400	1230	**1NB1 506-6BC00-4AA0**	993	96.7	0,86	1400	13463	2,30	67.3	2100	660	12759	95.1	0,86	235	11451	91.8	0,86	105	10853	87.0	0,87
1700	1500	**1NB1 562-6BC00-4CA0**	994	97.0	0,87	1680	16332	2,10	120.2	2000	800	15477	95.8	0,88	285	13890	92.6	0,89	130	13165	87.8	0,90
1950	1720	**1NB1 564-6BC00-4CA0**	994	97.2	0,88	1900	18734	2,40	136.6	2000	920	17734	95.9	0,88	325	15915	93.3	0,89	150	15085	89.1	0,89
2250	1980	**1NB1 566-6BC00-4CA0**	995	97.4	0,87	2200	21594	2,80	151.8	2000	1060	20439	96.1	0,87	375	18342	93.9	0,87	175	17385	90.5	0,87
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - const torque drive																						
540	480	**1NB1 404-8BC00-4AA0**	743	95.7	0,83	570	6940	2,70	26.7	2400	255	6575	92.9	0,82	90	5901	87.6	0,81	40	5593	80.0	0,82
520	460	**1NB1 404-8BC00-4CA0**	742	95.6	0,82	560	6692	2,40	32.9	2400	245	6343	92.9	0,81	85	5693	87.4	0,80	40	5395	79.3	0,81
590	520	**1NB1 406-8BC00-4AA0**	745	95.8	0,81	640	7563	3,50	30.6	2400	280	7165	92.8	0,79	100	6430	88.0	0,77	45	6094	81.3	0,78

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SIMOTICS HV C - 1NB1 IC416 690 V / 50 Hz B3 (IM 1001) - VSD const torque

Rated power IEC		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
570	500	**1NB1 406-8BC00-4CA0**	744	95.9	0,80	620	7316	3,00	37.6	2400	270	6931	93.4	0,78	95	6220	88.7	0,77	45	5895	82.0	0,78
650	570	**1NB1 452-8BC00-4AA0**	743	95.7	0,78	730	8354	2,20	35.1	2200	305	7915	93.1	0,78	105	7103	88.0	0,79	50	6732	80.3	0,81
630	560	**1NB1 452-8BC00-4CA0**	741	95.6	0,79	700	8119	2,30	43.0	2200	295	7694	93.0	0,78	105	6905	87.5	0,79	45	6544	79.2	0,80
760	670	**1NB1 454-8BC00-4AA0**	743	95.7	0,80	830	9768	2,20	39.9	2200	355	9255	93.2	0,80	125	8306	88.1	0,81	55	7872	80.6	0,82
750	660	**1NB1 454-8BC00-4CA0**	741	95.7	0,80	820	9665	2,30	48.7	2200	350	9159	93.1	0,80	125	8220	87.7	0,81	55	7791	79.5	0,82
810	720	**1NB1 456-8BC00-4AA0**	744	95.9	0,81	870	10396	2,60	46.4	2200	380	9853	93.5	0,80	135	8843	88.8	0,80	60	8381	82.0	0,81
810	720	**1NB1 456-8BC00-4CA0**	743	95.9	0,81	870	10410	2,60	56.4	2200	380	9869	93.5	0,80	135	8857	88.6	0,80	60	8395	81.3	0,81
860	760	**1NB1 502-8BC00-4CA0**	743	95.8	0,85	880	11053	1,90	67.0	2100	405	10473	94.1	0,84	140	9399	90.1	0,84	65	8908	83.6	0,85
830	730	**1NB1 502-8BC00-4AA0**	742	95.7	0,80	910	10682	1,70	52.0	2100	390	10114	94.0	0,80	135	9077	89.5	0,80	60	8603	82.5	0,81
950	840	**1NB1 504-8BC00-4AA0**	743	95.9	0,80	1040	12210	1,80	58.8	2100	445	11564	94.3	0,80	155	10378	90.4	0,80	70	9836	84.3	0,81
1000	880	**1NB1 504-8BC00-4CA0**	744	96.0	0,85	1020	12835	2,00	75.6	2100	470	12165	94.4	0,84	165	10917	90.7	0,83	75	10347	85.0	0,84
1030	910	**1NB1 506-8BC00-4AA0**	744	96.1	0,81	1100	13220	2,00	66.3	2100	485	12521	94.4	0,80	170	11237	90.9	0,80	80	10650	85.3	0,81
1050	930	**1NB1 506-8BC00-4CA0**	745	96.0	0,85	1080	13459	2,30	85.1	2100	495	12754	94.4	0,84	175	11446	91.1	0,83	80	10848	86.0	0,83
1310	1160	**1NB1 562-8BC00-4CA0**	744	96.6	0,84	1360	16814	1,90	119.6	2000	615	15935	95.1	0,85	215	14301	91.7	0,86	100	13554	86.4	0,86
1500	1320	**1NB1 564-8BC00-4CA0**	744	96.7	0,85	1520	19253	2,00	136.3	2000	705	18235	95.2	0,85	250	16365	91.8	0,86	115	15510	86.6	0,86
1600	1410	**1NB1 566-8BC00-4CA0**	744	96.8	0,85	1620	20536	1,90	151.7	2000	755	19454	95.3	0,86	265	17459	91.9	0,86	120	16548	86.9	0,87

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 402-2BC00-4AA0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 402-2BC00-4CA0	4000	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 404-2BC00-4AA0	4100	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 404-2BC00-4CA0	4100	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 406-2BC00-4AA0	4200	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 406-2BC00-4CA0	4300	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 452-2BC00-4AA0	5000	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	3041	180
1NB1 452-2BC00-4CA0	5200	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	3041	180
1NB1 454-2BC00-4AA0	5200	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	3041	180
1NB1 454-2BC00-4CA0	5400	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	3041	180
1NB1 456-2BC00-4AA0	5500	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	3041	180
1NB1 456-2BC00-4CA0	5600	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	3041	180
1NB1 502-2BC00-4CA0	6800	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	3357	200
1NB1 502-2BC00-4AA0	6600	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	3357	200
1NB1 504-2BC00-4AA0	6900	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	3357	200
1NB1 504-2BC00-4CA0	7100	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	3357	200
1NB1 506-2BC00-4AA0	7300	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	3357	200
1NB1 506-2BC00-4CA0	7500	1000	629	831	1194	1396	371	719	1320	315	110	165	500	1557	1322	1723	1907	3357	200
1NB1 564-2BC00-4CA0	9100	1120	684	831	1319	1466	371	719	1400	335	120	165	560	1682	1447	1847	2031	3508	225
1NB1 566-2BC00-4CA0	9500	1120	684	831	1319	1466	371	719	1400	335	120	165	560	1682	1447	1847	2031	3508	225
4-pole																			
1NB1 404-4BC00-4AA0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 404-4BC00-4CA0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-4BC00-4AA0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-4BC00-4CA0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 452-4BC00-4AA0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 452-4BC00-4CA0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-4BC00-4AA0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-4BC00-4CA0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-4BC00-4CA0	5900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-4BC00-4AA0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 502-4BC00-4CA0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 502-4BC00-4AA0	6600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-4BC00-4CA0	7300	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-4BC00-4AA0	7100	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-4BC00-4AA0	7500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 506-4BC00-4CA0	7700	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 562-4BC00-4AA0	8900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 562-4BC00-4CA0	9200	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 564-4BC00-4AA0	9400	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 564-4BC00-4CA0	9700	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 566-4BC00-4AA0	9900	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 566-4BC00-4CA0	10200	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
6-pole																			
1NB1 404-6BC00-4AA0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 404-6BC00-4CA0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-6BC00-4AA0	4500	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-6BC00-4CA0	4700	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 452-6BC00-4AA0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 452-6BC00-4CA0	5200	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-6BC00-4AA0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-6BC00-4CA0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-6BC00-4AA0	5600	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-6BC00-4CA0	5800	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 500-6BC00-4CA0	6700	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 500-6BC00-4AA0	6500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 502-6BC00-4AA0	6900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 502-6BC00-4CA0	7100	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-6BC00-4CA0	7500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-6BC00-4AA0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-6BC00-4CA0	7900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-6BC00-4AA0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 562-6BC00-4CA0	9500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 564-6BC00-4CA0	10100	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 566-6BC00-4CA0	10800	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
8-pole																			
1NB1 404-8BC00-4AA0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 404-8BC00-4CA0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-8BC00-4AA0	4500	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-8BC00-4CA0	4600	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 452-8BC00-4AA0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 452-8BC00-4CA0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-8BC00-4AA0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 454-8BC00-4CA0	5400	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-8BC00-4AA0	5600	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-8BC00-4CA0	5800	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 502-8BC00-4CA0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 502-8BC00-4AA0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-8BC00-4AA0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-8BC00-4CA0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-8BC00-4AA0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-8BC00-4CA0	7800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 562-8BC00-4CA0	9600	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 564-8BC00-4CA0	10100	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 566-8BC00-4CA0	10700	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 690 V / 50 Hz V1 (IM 3011) - Dimension drawings														
2-pole														
1NB1 402-2BC04-4AA0	4100	1041	356	85	1285	1499	2808	3011	940	880	1000	24	8
1NB1 402-2BC04-4CA0	4200	1041	356	85	1285	1499	2808	3011	940	880	1000	24	8
1NB1 404-2BC04-4AA0	4200	1041	356	85	1285	1499	2808	3011	940	880	1000	24	8
1NB1 404-2BC04-4CA0	4300	1041	356	85	1285	1499	2808	3011	940	880	1000	24	8
1NB1 406-2BC04-4AA0	4400	1041	356	85	1285	1499	2808	3011	940	880	1000	24	8
1NB1 406-2BC04-4CA0	4500	1041	356	85	1285	1499	2808	3011	940	880	1000	24	8
4-pole														
1NB1 404-4BC04-4AA0	4300	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 404-4BC04-4CA0	4400	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 406-4BC04-4AA0	4500	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 406-4BC04-4CA0	4600	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 452-4BC04-4AA0	5400	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 452-4BC04-4CA0	5500	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 454-4BC04-4AA0	5600	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 454-4BC04-4CA0	5700	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 456-4BC04-4CA0	6100	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 456-4BC04-4AA0	5900	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 502-4BC04-4CA0	7100	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 502-4BC04-4AA0	6900	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-4BC04-4CA0	7600	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-4BC04-4AA0	7400	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-4BC04-4AA0	7800	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-4BC04-4CA0	8000	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 562-4BC04-4AA0	9300	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 562-4BC04-4CA0	9600	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 564-4BC04-4AA0	9700	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 564-4BC04-4CA0	10100	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 566-4BC04-4AA0	10200	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 566-4BC04-4CA0	10600	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
6-pole														
1NB1 404-6BC04-4AA0	4400	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 404-6BC04-4CA0	4600	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 406-6BC04-4AA0	4700	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 406-6BC04-4CA0	4900	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 452-6BC04-4AA0	5300	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 452-6BC04-4CA0	5400	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8

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Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 690 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NB1 454-6BC04-4AA0	5500	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 454-6BC04-4CA0	5700	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 456-6BC04-4AA0	5900	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 456-6BC04-4CA0	6100	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 500-6BC04-4CA0	7000	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 500-6BC04-4AA0	6800	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 502-6BC04-4AA0	7200	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 502-6BC04-4CA0	7400	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-6BC04-4CA0	7700	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-6BC04-4AA0	7500	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-6BC04-4CA0	8200	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-6BC04-4AA0	7900	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 562-6BC04-4CA0	9900	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 564-6BC04-4CA0	10500	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 566-6BC04-4CA0	11100	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
8-pole														
1NB1 404-8BC04-4AA0	4400	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 404-8BC04-4CA0	4600	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 406-8BC04-4AA0	4700	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 406-8BC04-4CA0	4800	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 452-8BC04-4AA0	5200	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 452-8BC04-4CA0	5400	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 454-8BC04-4AA0	5500	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 454-8BC04-4CA0	5600	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 456-8BC04-4AA0	5800	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 456-8BC04-4CA0	6000	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 502-8BC04-4CA0	7300	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 502-8BC04-4AA0	7100	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-8BC04-4AA0	7500	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-8BC04-4CA0	7700	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-8BC04-4AA0	7900	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-8BC04-4CA0	8100	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 562-8BC04-4CA0	9900	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 564-8BC04-4CA0	10500	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 566-8BC04-4CA0	11100	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC416 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - const torque drive																						
880	780	**1NB1 402-2BC10-4AA0**	3580	96.7	0,93	820	2347	3,40	10.0	3600	415	2222	96.0	0,92	145	1994	93.7	0,90	70	1890	89.8	0,90
850	750	**1NB1 402-2BC10-4CA0**	3581	96.6	0,92	800	2267	3,40	12.3	3600	400	2145	95.9	0,91	140	1925	93.7	0,89	65	1825	89.9	0,89
900	790	**1NB1 404-2BC10-4AA0**	3581	96.7	0,94	830	2400	3,90	11.0	3600	425	2272	96.0	0,93	150	2039	93.8	0,91	70	1933	90.1	0,91
900	790	**1NB1 404-2BC10-4CA0**	3582	96.6	0,94	830	2399	3,80	13.5	3600	425	2274	95.9	0,93	150	2041	93.7	0,91	70	1934	90.0	0,91
950	840	**1NB1 406-2BC10-4AA0**	3582	96.7	0,95	870	2533	4,10	12.2	3600	450	2400	96.0	0,93	160	2154	93.8	0,92	75	2041	90.1	0,92
910	800	**1NB1 406-2BC10-4CA0**	3583	96.7	0,94	840	2425	4,20	14.9	3600	430	2297	95.9	0,93	155	2061	93.8	0,91	70	1954	90.3	0,91
1250	1100	**1NB1 454-2BC10-4CA0**	3584	97.0	0,94	1140	3331	2,80	19.3	3600	590	3152	96.4	0,93	210	2829	94.3	0,92	100	2681	90.8	0,92
1270	1120	**1NB1 456-2BC10-4CA0**	3583	97.0	0,94	1160	3385	2,60	21.3	3600	600	3204	96.3	0,94	215	2876	94.0	0,93	100	2726	90.2	0,93
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - const torque drive																						
900	790	**1NB1 404-4BC10-4AA0**	1791	96.6	0,89	880	4799	3,30	15.6	2600	425	4542	95.1	0,88	150	4076	92.7	0,87	70	3864	88.8	0,88
950	840	**1NB1 404-4BC10-4CA0**	1789	96.6	0,89	920	5071	2,80	19.8	2600	450	4802	95.2	0,88	160	4309	92.5	0,88	75	4084	88.1	0,88
950	840	**1NB1 406-4BC10-4AA0**	1792	96.7	0,89	920	5062	3,80	17.4	2600	450	4792	95.1	0,88	160	4301	93.0	0,87	75	4076	89.6	0,86
1010	890	**1NB1 406-4BC10-4CA0**	1790	96.7	0,89	980	5388	3,10	22.1	2600	475	5101	95.4	0,88	170	4578	93.0	0,87	80	4339	89.2	0,87
1150	1010	**1NB1 452-4BC10-4AA0**	1790	96.8	0,90	1100	6135	2,80	23.9	2400	540	5808	95.6	0,89	190	5213	93.2	0,88	90	4941	89.2	0,88
1120	990	**1NB1 452-4BC10-4CA0**	1790	96.8	0,89	1080	5975	2,60	30.9	2400	530	5657	95.7	0,88	185	5077	93.2	0,87	85	4812	89.3	0,87
1350	1190	**1NB1 454-4BC10-4AA0**	1791	96.9	0,90	1300	7198	3,10	26.3	2400	635	6813	95.7	0,89	225	6115	93.4	0,87	105	5796	89.7	0,88
1310	1150	**1NB1 454-4BC10-4CA0**	1792	96.9	0,89	1280	6981	2,90	33.8	2400	620	6611	95.8	0,88	220	5933	93.5	0,87	100	5623	89.9	0,87
1450	1280	**1NB1 456-4BC10-4AA0**	1792	97.1	0,91	1380	7727	3,30	30.4	2400	685	7317	95.9	0,89	245	6567	93.8	0,88	115	6224	90.5	0,88
1420	1250	**1NB1 456-4BC10-4CA0**	1792	97.1	0,90	1360	7567	3,00	39.0	2400	670	7164	96.0	0,89	240	6429	93.9	0,87	110	6093	90.7	0,87
1450	1280	**1NB1 502-4BC10-4CA0**	1790	96.5	0,86	1460	7735	2,00	37.2	2200	685	7325	95.5	0,85	245	6574	93.0	0,85	115	6231	88.9	0,85
1450	1280	**1NB1 502-4BC10-4AA0**	1790	96.5	0,87	1440	7735	2,60	28.4	2200	685	7328	95.4	0,87	245	6577	92.8	0,86	115	6233	88.7	0,86
1500	1320	**1NB1 504-4BC10-4AA0**	1791	96.6	0,89	1460	7998	2,80	32.5	2200	705	7576	95.3	0,89	250	6799	92.9	0,88	115	6444	89.0	0,88
1500	1320	**1NB1 504-4BC10-4CA0**	1791	96.6	0,88	1480	7998	2,20	42.4	2200	705	7572	95.5	0,87	250	6796	93.1	0,87	115	6441	89.2	0,87
1750	1540	**1NB1 506-4BC10-4AA0**	1792	96.8	0,88	1720	9325	3,20	37.0	2200	825	8831	95.6	0,88	295	7925	93.5	0,86	135	7512	90.3	0,86
1750	1540	**1NB1 506-4BC10-4CA0**	1792	96.9	0,87	1740	9325	2,50	48.0	2200	825	8829	95.8	0,87	295	7924	93.8	0,86	135	7510	90.6	0,86
1850	1630	**1NB1 562-4BC10-4CA0**	1792	97.0	0,88	1820	9858	2,30	72.4	2000	875	9338	96.0	0,87	310	8381	93.9	0,86	145	7943	90.6	0,87
1850	1630	**1NB1 562-4BC10-4AA0**	1792	97.0	0,88	1820	9858	2,60	54.4	2000	875	9336	95.9	0,88	310	8379	94.0	0,87	145	7942	90.8	0,87
2110	1860	**1NB1 564-4BC10-4AA0**	1793	97.1	0,88	2050	11238	2,70	59.8	2000	995	10643	96.0	0,88	355	9552	94.0	0,87	165	9053	90.7	0,87
2110	1860	**1NB1 564-4BC10-4CA0**	1793	97.1	0,88	2050	11238	2,40	79.3	2000	995	10645	96.1	0,87	355	9553	94.0	0,86	165	9055	90.6	0,87
2150	1890	**1NB1 566-4BC10-4AA0**	1793	97.1	0,89	2100	11451	2,80	66.6	2000	1015	10838	96.1	0,89	360	9727	94.0	0,88	170	9219	90.7	0,88
2150	1900	**1NB1 566-4BC10-4CA0**	1793	97.2	0,89	2100	11451	2,40	88.0	2000	1015	10847	96.1	0,88	360	9734	94.0	0,88	170	9226	90.7	0,88
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - const torque drive																						
760	670	**1NB1 404-6BC10-4AA0**	1194	96.3	0,88	750	6078	3,00	25.9	2400	360	5755	94.4	0,87	125	5164	91.3	0,86	60	4895	86.8	0,87
780	690	**1NB1 404-6BC10-4CA0**	1193	96.4	0,87	780	6243	2,60	33.3	2400	370	5913	94.8	0,87	130	5306	91.5	0,86	60	5029	86.5	0,87

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SIMOTICS HV C - 1NB1 IC416 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
800	710	**1NB1 406-6BC10-4AA0**	1195	96.4	0,88	790	6393	3,50	29.6	2400	375	6052	94.4	0,87	135	5431	91.7	0,86	65	5148	87.9	0,86
820	720	**1NB1 406-6BC10-4CA0**	1194	96.5	0,88	810	6558	2,90	38.1	2400	385	6210	95.0	0,87	135	5573	92.2	0,86	65	5282	88.0	0,86
930	820	**1NB1 452-6BC10-4AA0**	1193	96.4	0,85	950	7444	2,60	34.7	2200	440	7050	94.7	0,85	155	6327	91.6	0,85	70	5997	86.7	0,85
920	810	**1NB1 452-6BC10-4CA0**	1192	96.5	0,85	940	7370	2,30	43.3	2200	435	6981	94.9	0,84	155	6265	91.6	0,84	70	5938	86.5	0,85
1150	1010	**1NB1 454-6BC10-4AA0**	1193	96.5	0,86	1160	9205	2,90	39.5	2200	540	8715	94.7	0,85	190	7821	91.8	0,84	90	7413	87.2	0,85
1150	1010	**1NB1 454-6BC10-4CA0**	1193	96.7	0,85	1180	9205	2,50	49.1	2200	540	8725	95.0	0,85	190	7830	92.0	0,85	90	7422	87.2	0,85
1150	1010	**1NB1 456-6BC10-4AA0**	1194	96.7	0,86	1160	9197	3,30	45.8	2200	540	8705	95.0	0,84	195	7812	92.6	0,83	90	7405	88.8	0,84
1170	1030	**1NB1 456-6BC10-4CA0**	1194	96.8	0,86	1180	9357	2,80	56.7	2200	550	8862	95.4	0,85	195	7953	92.9	0,84	90	7538	88.9	0,85
1270	1120	**1NB1 500-6BC10-4CA0**	1193	96.8	0,86	1280	10166	1,80	59.8	2100	600	9631	95.6	0,86	210	8643	92.8	0,87	100	8192	88.4	0,87
1250	1100	**1NB1 500-6BC10-4AA0**	1191	96.5	0,83	1300	10022	2,00	46.4	2100	590	9495	95.1	0,84	210	8522	91.8	0,84	95	8077	86.8	0,85
1450	1280	**1NB1 502-6BC10-4AA0**	1191	96.7	0,83	1520	11626	1,90	52.7	2100	685	11008	95.2	0,84	240	9879	91.9	0,84	110	9363	87.1	0,85
1400	1230	**1NB1 502-6BC10-4CA0**	1194	96.9	0,86	1400	11197	1,90	67.5	2100	660	10605	95.7	0,86	235	9518	93.1	0,87	110	9021	89.2	0,87
1570	1380	**1NB1 504-6BC10-4AA0**	1193	96.8	0,84	1620	12567	2,30	59.6	2100	740	11903	95.4	0,84	260	10682	92.6	0,84	120	10124	88.6	0,85
1670	1470	**1NB1 504-6BC10-4CA0**	1194	97.0	0,86	1680	13356	2,10	76.1	2100	790	12650	95.9	0,86	280	11353	93.4	0,87	130	10760	89.7	0,87
1560	1380	**1NB1 506-6BC10-4AA0**	1193	96.9	0,86	1560	12487	2,50	67.3	2100	735	11828	95.3	0,85	260	10615	92.7	0,86	120	10061	88.8	0,86
1700	1500	**1NB1 506-6BC10-4CA0**	1194	97.0	0,87	1680	13596	2,10	85.5	2100	800	12873	95.8	0,87	285	11553	93.4	0,87	135	10950	89.7	0,88
2000	1760	**1NB1 562-6BC10-4CA0**	1194	97.2	0,87	1980	15995	2,40	120.2	2000	945	15141	95.9	0,88	335	13588	93.5	0,88	155	12879	89.9	0,89
2500	2200	**1NB1 564-6BC10-4CA0**	1195	97.4	0,87	2450	19978	2,40	136.6	2000	1180	18924	96.1	0,88	420	16983	93.9	0,88	195	16096	90.6	0,88
2400	2110	**1NB1 566-6BC10-4CA0**	1195	97.4	0,88	2350	19179	2,50	151.8	2000	1130	18163	96.0	0,88	405	16300	93.9	0,89	190	15449	90.7	0,89
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - const torque drive																						
630	560	**1NB1 404-8BC10-4AA0**	893	96.0	0,84	650	6737	2,50	26.7	2400	295	6386	93.2	0,83	105	5731	88.5	0,82	50	5432	81.8	0,83
610	540	**1NB1 404-8BC10-4CA0**	891	95.8	0,82	650	6538	2,20	32.9	2400	285	6190	93.2	0,82	100	5555	88.3	0,81	45	5265	81.0	0,82
670	590	**1NB1 406-8BC10-4AA0**	894	96.0	0,85	690	7157	2,90	30.6	2400	315	6780	93.1	0,83	110	6085	88.7	0,82	50	5767	82.5	0,82
650	570	**1NB1 406-8BC10-4CA0**	893	96.0	0,83	680	6951	2,50	37.6	2400	305	6586	93.3	0,82	110	5911	88.8	0,81	50	5602	82.3	0,82
750	660	**1NB1 452-8BC10-4AA0**	892	95.9	0,79	830	8029	2,10	35.1	2200	355	7603	93.5	0,79	125	6823	88.9	0,80	55	6467	82.1	0,81
720	640	**1NB1 452-8BC10-4CA0**	891	95.8	0,79	800	7717	2,20	43.0	2200	340	7310	93.4	0,79	120	6561	88.6	0,80	55	6218	81.3	0,81
900	790	**1NB1 454-8BC10-4AA0**	892	95.9	0,80	980	9635	1,90	39.9	2200	425	9130	93.5	0,80	150	8194	88.8	0,81	70	7766	81.8	0,83
860	760	**1NB1 454-8BC10-4CA0**	891	95.9	0,81	930	9217	2,10	48.7	2200	405	8736	93.5	0,80	140	7840	88.5	0,81	65	7431	81.1	0,82
1000	880	**1NB1 456-8BC10-4CA0**	893	96.3	0,79	1100	10694	2,60	56.4	2200	470	10134	94.2	0,79	165	9095	90.4	0,79	75	8620	84.6	0,79
1000	880	**1NB1 456-8BC10-4AA0**	894	96.3	0,79	1100	10682	2,60	46.4	2200	470	10119	94.0	0,78	165	9081	90.4	0,78	75	8607	85.1	0,79
1000	880	**1NB1 502-8BC10-4CA0**	893	96.0	0,85	1020	10694	1,90	67.0	2100	470	10131	94.5	0,84	165	9092	91.2	0,84	75	8618	86.0	0,84
1000	880	**1NB1 502-8BC10-4AA0**	892	95.9	0,79	1100	10705	1,60	52.0	2100	470	10142	94.4	0,79	165	9102	90.6	0,80	75	8627	84.7	0,81
1120	990	**1NB1 504-8BC10-4AA0**	893	96.1	0,81	1200	11977	1,70	58.8	2100	525	11347	94.5	0,80	185	10184	91.0	0,80	85	9652	85.5	0,81
1150	1010	**1NB1 504-8BC10-4CA0**	893	96.1	0,85	1180	12298	2,00	75.6	2100	540	11644	94.5	0,84	190	10450	91.3	0,84	90	9905	86.3	0,84
1170	1030	**1NB1 506-8BC10-4AA0**	893	96.2	0,82	1240	12511	1,80	66.3	2100	550	11846	94.6	0,81	195	10631	91.3	0,81	90	10076	86.2	0,82

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SIMOTICS HV C - 1NB1 IC416 690 V / 60 Hz B3 (IM 1001) - VSD const torque

Rated power IEC		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1200	1060	**1NB1 506-8BC10-4CA0**	894	96.1	0,85	1220	12818	2,10	85.1	2100	565	12142	94.6	0,84	200	10897	91.5	0,84	90	10328	86.8	0,84
1510	1330	**1NB1 562-8BC10-4CA0**	894	96.6	0,84	1560	16129	1,90	119.6	2000	710	15290	95.3	0,85	250	13722	92.2	0,86	115	13005	87.4	0,86
1760	1550	**1NB1 564-8BC10-4CA0**	893	96.7	0,85	1800	18821	1,80	136.3	2000	830	17813	95.3	0,85	295	15986	92.1	0,86	135	15151	87.3	0,87
1820	1600	**1NB1 566-8BC10-4CA0**	894	96.8	0,85	1860	19440	2,10	151.7	2000	860	18405	95.3	0,85	305	16517	92.6	0,86	140	15655	88.5	0,86

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 402-2BC10-4AA0	3900	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 402-2BC10-4CA0	4000	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 404-2BC10-4AA0	4100	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 404-2BC10-4CA0	4100	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 406-2BC10-4AA0	4200	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 406-2BC10-4CA0	4300	800	541	746	991	1196	356	575	1120	254	85	130	400	1185	1029	1399	1642	2808	160
1NB1 454-2BC10-4CA0	5300	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	3041	180
1NB1 456-2BC10-4CA0	5600	900	557	746	1072	1261	356	575	1250	280	95	130	450	1278	1122	1492	1734	3041	180
4-pole																			
1NB1 404-4BC10-4AA0	4100	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 404-4BC10-4CA0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-4BC10-4AA0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-4BC10-4CA0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 452-4BC10-4AA0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 452-4BC10-4CA0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-4BC10-4AA0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-4BC10-4CA0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-4BC10-4AA0	5700	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-4BC10-4CA0	5900	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 502-4BC10-4CA0	6900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 502-4BC10-4AA0	6700	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-4BC10-4AA0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-4BC10-4CA0	7300	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-4BC10-4AA0	7500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-4BC10-4CA0	7700	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 562-4BC10-4CA0	9300	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 562-4BC10-4AA0	9000	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 564-4BC10-4AA0	9300	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 564-4BC10-4CA0	9600	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 566-4BC10-4AA0	9800	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 566-4BC10-4CA0	10200	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
6-pole																			
1NB1 404-6BC10-4AA0	4300	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 404-6BC10-4CA0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-6BC10-4AA0	4500	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-6BC10-4CA0	4700	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 452-6BC10-4AA0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 452-6BC10-4CA0	5200	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-6BC10-4AA0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-6BC10-4CA0	5500	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-6BC10-4AA0	5600	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-6BC10-4CA0	5800	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 500-6BC10-4CA0	6700	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 500-6BC10-4AA0	6500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 502-6BC10-4AA0	6900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 502-6BC10-4CA0	7100	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-6BC10-4AA0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-6BC10-4CA0	7500	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-6BC10-4AA0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-6BC10-4CA0	7900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 562-6BC10-4CA0	9500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 564-6BC10-4CA0	10200	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 566-6BC10-4CA0	10700	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
8-pole																			
1NB1 404-8BC10-4AA0	4200	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 404-8BC10-4CA0	4400	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-8BC10-4AA0	4500	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 406-8BC10-4CA0	4600	800	541	746	991	1196	356	575	1120	254	120	165	400	1185	1029	1399	1642	2843	160
1NB1 452-8BC10-4AA0	5000	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 452-8BC10-4CA0	5100	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-8BC10-4AA0	5300	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 454-8BC10-4CA0	5400	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-8BC10-4CA0	5800	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 456-8BC10-4AA0	5600	900	557	746	1072	1261	356	575	1250	280	120	165	450	1278	1122	1492	1734	3076	180
1NB1 502-8BC10-4CA0	7000	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 502-8BC10-4AA0	6800	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-8BC10-4AA0	7200	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 504-8BC10-4CA0	7400	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-8BC10-4AA0	7600	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 506-8BC10-4CA0	7900	1000	629	831	1194	1396	371	719	1320	315	140	200	500	1557	1322	1723	1907	3392	200
1NB1 562-8BC10-4CA0	9500	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 564-8BC10-4CA0	10100	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225
1NB1 566-8BC10-4CA0	10700	1120	684	831	1319	1466	371	719	1400	335	160	240	560	1682	1447	1847	2031	3583	225

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Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z	
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
SIMOTICS HV C - 1NB1 IC416 690 V / 60 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NB1 404-4BC14-4AA0	4300	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8	
1NB1 404-4BC14-4CA0	4400	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8	
1NB1 406-4BC14-4AA0	4500	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8	
1NB1 406-4BC14-4CA0	4600	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8	
1NB1 452-4BC14-4AA0	5400	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 452-4BC14-4CA0	5500	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 454-4BC14-4AA0	5500	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 454-4BC14-4CA0	5700	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 456-4BC14-4AA0	5900	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 456-4BC14-4CA0	6100	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 502-4BC14-4CA0	7200	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16	
1NB1 502-4BC14-4AA0	7000	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16	
1NB1 504-4BC14-4AA0	7300	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16	
1NB1 504-4BC14-4CA0	7600	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16	
1NB1 506-4BC14-4AA0	7800	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16	
1NB1 506-4BC14-4CA0	8000	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16	
1NB1 562-4BC14-4CA0	9600	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16	
1NB1 562-4BC14-4AA0	9300	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16	
1NB1 564-4BC14-4AA0	9700	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16	
1NB1 564-4BC14-4CA0	10000	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16	
1NB1 566-4BC14-4AA0	10100	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16	
1NB1 566-4BC14-4CA0	10500	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16	
6-pole														
1NB1 404-6BC14-4AA0	4400	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8	
1NB1 404-6BC14-4CA0	4600	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8	
1NB1 406-6BC14-4AA0	4700	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8	
1NB1 406-6BC14-4CA0	4900	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8	
1NB1 452-6BC14-4AA0	5300	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 452-6BC14-4CA0	5400	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 454-6BC14-4AA0	5500	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 454-6BC14-4CA0	5700	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 456-6BC14-4AA0	5900	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 456-6BC14-4CA0	6100	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8	
1NB1 500-6BC14-4CA0	7000	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16	
1NB1 500-6BC14-4AA0	6800	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16	
1NB1 502-6BC14-4AA0	7200	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16	

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 502-6BC14-4CA0	7400	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-6BC14-4AA0	7500	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-6BC14-4CA0	7800	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-6BC14-4AA0	7900	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-6BC14-4CA0	8100	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 562-6BC14-4CA0	9900	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 564-6BC14-4CA0	10500	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 566-6BC14-4CA0	11100	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
8-pole													
1NB1 404-8BC14-4AA0	4400	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 404-8BC14-4CA0	4600	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 406-8BC14-4AA0	4700	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 406-8BC14-4CA0	4800	1041	356	120	1285	1499	2843	3046	940	880	1000	24	8
1NB1 452-8BC14-4AA0	5200	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 452-8BC14-4CA0	5400	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 454-8BC14-4AA0	5500	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 454-8BC14-4CA0	5600	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 456-8BC14-4CA0	6000	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 456-8BC14-4AA0	5900	1132	356	120	1403	1617	3076	3284	1080	1000	1150	28	8
1NB1 502-8BC14-4CA0	7300	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 502-8BC14-4AA0	7100	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-8BC14-4AA0	7500	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 504-8BC14-4CA0	7700	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-8BC14-4AA0	7900	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 506-8BC14-4CA0	8200	1254	371	140	1682	1848	3392	3600	1180	1120	1250	28	16
1NB1 562-8BC14-4CA0	9900	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 564-8BC14-4CA0	10500	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16
1NB1 566-8BC14-4CA0	11100	1384	371	160	1822	1987	3583	3791	1320	1250	1400	28	16

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SIMOTICS HV C - 1NB1 IC416 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - const torque drive																						
	850	**1NB1 452-2BR40-4AA0**	2983	96.8	0,89	136	2721	2,40	12.7	3600	400	2578	96.1	0,89	140	2313	93.3	0,89	65	2193	90.2	0,88
	830	**1NB1 452-2BR40-4CA0**	2979	96.5	0,89	134	2661	2,10	16.5	3600	390	2522	95.8	0,89	140	2263	92.7	0,88	65	2145	89.5	0,88
	920	**1NB1 454-2BR40-4AA0**	2986	97.1	0,90	146	2942	3,00	14.2	3600	435	2785	96.6	0,90	155	2499	94.3	0,89	70	2369	91.6	0,87
	900	**1NB1 454-2BR40-4CA0**	2984	96.8	0,91	142	2880	2,60	18.3	3600	425	2728	96.3	0,90	150	2448	93.8	0,88	70	2321	91.0	0,87
	1050	**1NB1 456-2BR40-4AA0**	2986	97.2	0,91	164	3358	3,10	15.7	3600	495	3179	96.7	0,91	175	2853	94.3	0,89	85	2704	91.8	0,88
	1010	**1NB1 456-2BR40-4CA0**	2984	96.9	0,91	158	3232	2,70	20.2	3600	475	3061	96.5	0,90	170	2747	94.0	0,89	80	2604	91.3	0,88
	1200	**1NB1 502-2BR40-4CA0**	2986	96.9	0,89	194	3838	2,60	26.7	3000	565	3635	96.6	0,89	200	3262	94.6	0,88	95	3092	92.1	0,86
	1200	**1NB1 502-2BR40-4AA0**	2985	97.0	0,89	192	3839	2,80	20.9	3000	565	3635	96.7	0,89	200	3262	94.6	0,88	95	3092	92.3	0,87
	1250	**1NB1 504-2BR40-4AA0**	2987	97.1	0,90	198	3996	3,30	23.3	3000	590	3782	96.9	0,90	210	3395	95.0	0,89	100	3217	92.8	0,87
	1250	**1NB1 504-2BR40-4CA0**	2988	97.0	0,90	198	3995	2,90	29.6	3000	590	3782	96.8	0,90	210	3395	95.0	0,89	100	3217	92.7	0,86
	1410	**1NB1 506-2BR40-4AA0**	2987	97.3	0,91	220	4508	3,30	26.3	3000	665	4267	97.0	0,90	235	3829	95.1	0,89	110	3629	93.0	0,88
	1410	**1NB1 506-2BR40-4CA0**	2988	97.2	0,90	225	4506	2,90	33.2	3000	665	4267	97.0	0,90	235	3829	95.1	0,89	110	3629	93.0	0,87
	1770	**1NB1 564-2BR40-4CA0**	2989	97.2	0,91	280	5655	2,50	49.9	3000	835	5355	97.1	0,91	300	4806	95.5	0,90	140	4555	93.7	0,89
	1800	**1NB1 566-2BR40-4CA0**	2991	97.3	0,91	280	5747	2,80	55.2	3000	850	5441	97.3	0,91	305	4883	95.8	0,91	145	4628	94.1	0,89
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - const torque drive																						
	980	**1NB1 452-4BR40-4AA0**	1491	96.6	0,85	166	6277	2,60	19.6	2400	460	5949	96.0	0,84	165	5338	92.9	0,83	75	5060	89.1	0,78
	960	**1NB1 452-4BR40-4CA0**	1491	96.7	0,83	166	6148	2,20	25.2	2400	450	5826	95.9	0,83	160	5229	93.0	0,82	75	4956	89.6	0,79
	960	**1NB1 454-4BR40-4AA0**	1493	96.7	0,85	162	6140	3,30	21.5	2400	455	5816	96.2	0,84	160	5220	93.3	0,81	75	4947	89.5	0,74
	960	**1NB1 454-4BR40-4CA0**	1493	96.7	0,84	164	6140	2,70	27.6	2400	455	5818	96.2	0,84	160	5221	93.5	0,81	75	4949	90.1	0,76
	1100	**1NB1 456-4BR40-4AA0**	1492	96.8	0,86	184	7040	3,10	24.8	2400	520	6667	96.3	0,86	185	5983	93.4	0,83	85	5671	89.9	0,78
	1100	**1NB1 456-4BR40-4CA0**	1492	96.9	0,85	186	7040	2,60	31.7	2400	520	6669	96.3	0,85	185	5985	93.6	0,83	85	5672	90.4	0,79
	1170	**1NB1 502-4BR40-4CA0**	1492	96.7	0,86	196	7488	2,20	37.2	2200	550	7097	96.2	0,85	195	6370	93.6	0,84	90	6037	90.6	0,82
	1170	**1NB1 502-4BR40-4AA0**	1492	96.6	0,87	194	7488	2,70	28.4	2200	550	7094	96.1	0,87	195	6366	93.4	0,85	90	6034	90.0	0,81
	1260	**1NB1 504-4BR40-4AA0**	1492	96.8	0,87	210	8064	2,80	32.5	2200	595	7640	96.4	0,87	210	6856	94.0	0,85	100	6498	91.0	0,82
	1260	**1NB1 504-4BR40-4CA0**	1492	96.9	0,86	210	8064	2,20	42.4	2200	595	7637	96.5	0,85	210	6854	94.2	0,85	100	6496	91.5	0,82
	1410	**1NB1 506-4BR40-4AA0**	1493	96.9	0,88	230	9018	3,00	37.0	2200	665	8544	96.6	0,88	235	7668	94.2	0,86	110	7268	91.3	0,81
	1410	**1NB1 506-4BR40-4CA0**	1493	97.0	0,87	230	9018	2,40	48.0	2200	665	8547	96.6	0,86	235	7671	94.4	0,85	110	7270	91.9	0,82
	1600	**1NB1 560-4BR40-4CA0**	1492	97.2	0,85	270	10241	2,00	64.6	2000	755	9696	96.7	0,85	270	8702	94.3	0,84	125	8247	91.8	0,82
	1610	**1NB1 560-4BR40-4AA0**	1493	97.1	0,86	270	10298	2,30	48.3	2000	760	9751	96.7	0,86	270	8751	94.3	0,84	125	8294	91.6	0,81
	1710	**1NB1 562-4BR40-4CA0**	1494	97.3	0,86	285	10930	2,30	72.4	2000	805	10359	97.0	0,85	285	9297	94.9	0,84	135	8812	92.6	0,81
	1720	**1NB1 562-4BR40-4AA0**	1494	97.2	0,87	280	10994	2,60	54.4	2000	810	10415	97.0	0,86	290	9347	94.9	0,84	135	8859	92.4	0,79
	1870	**1NB1 564-4BR40-4AA0**	1494	97.3	0,87	305	11953	2,90	59.8	2000	880	11316	97.1	0,87	315	10156	95.0	0,84	150	9625	92.5	0,79
	1870	**1NB1 564-4BR40-4CA0**	1494	97.4	0,87	305	11953	2,50	79.3	2000	880	11320	97.1	0,86	315	10159	95.1	0,84	150	9629	92.8	0,80
	2060	**1NB1 566-4BR40-4AA0**	1495	97.4	0,88	335	13158	3,00	66.6	2000	970	12464	97.2	0,87	345	11186	95.1	0,85	165	10602	92.6	0,80

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SIMOTICS HV C - 1NB1 IC416 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	2060	**1NB1 566-4BR40-4CA0**	1494	97.5	0,87	335	13167	2,60	88.0	2000	970	12466	97.2	0,87	345	11187	95.2	0,85	165	10603	93.0	0,81
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - const torque drive																						
	630	**1NB1 452-6BR40-4AA0**	992	96.0	0,80	114	6065	1,80	28.0	2200	295	5749	94.8	0,81	105	5159	90.8	0,81	50	4890	86.4	0,80
	650	**1NB1 452-6BR40-4CA0**	992	96.1	0,83	114	6257	1,90	36.2	2200	305	5934	94.8	0,83	110	5326	90.8	0,84	50	5048	86.4	0,82
	720	**1NB1 454-6BR40-4AA0**	994	96.3	0,80	130	6917	2,30	31.8	2200	340	6553	95.5	0,80	120	5881	92.0	0,79	55	5574	87.7	0,74
	730	**1NB1 454-6BR40-4CA0**	994	96.4	0,83	126	7013	2,50	41.0	2200	345	6645	95.6	0,83	120	5964	92.1	0,81	55	5652	88.0	0,76
	800	**1NB1 456-6BR40-4AA0**	994	96.4	0,81	142	7686	2,40	36.8	2200	375	7277	95.6	0,81	135	6531	92.5	0,80	65	6190	88.4	0,75
	800	**1NB1 456-6BR40-4CA0**	994	96.4	0,84	138	7686	2,60	47.3	2200	375	7277	95.7	0,83	135	6531	92.6	0,82	65	6190	88.7	0,77
	960	**1NB1 500-6BR40-4CA0**	994	96.6	0,85	162	9223	1,90	59.8	2100	450	8738	95.5	0,86	160	7842	92.1	0,87	75	7433	88.2	0,86
	900	**1NB1 500-6BR40-4AA0**	992	96.4	0,83	156	8664	2,10	46.4	2100	425	8211	95.3	0,84	150	7369	91.3	0,84	70	6984	87.2	0,83
	960	**1NB1 502-6BR40-4AA0**	994	96.5	0,84	164	9223	2,60	52.7	2100	450	8743	95.6	0,84	160	7846	92.1	0,84	75	7437	87.8	0,81
	1010	**1NB1 502-6BR40-4CA0**	995	96.7	0,86	168	9693	2,30	67.5	2100	475	9182	95.9	0,87	170	8240	92.7	0,87	80	7810	88.9	0,83
	1050	**1NB1 504-6BR40-4AA0**	994	96.7	0,85	178	10087	2,40	59.6	2100	495	9560	95.7	0,85	175	8579	92.4	0,85	80	8131	88.6	0,83
	1120	**1NB1 504-6BR40-4CA0**	995	96.8	0,87	184	10749	2,10	76.1	2100	530	10187	96.0	0,87	185	9142	93.0	0,87	90	8665	89.6	0,85
	1200	**1NB1 506-6BR40-4AA0**	994	96.8	0,85	200	11528	2,60	67.3	2100	565	10928	96.0	0,85	200	9807	92.9	0,85	95	9295	89.2	0,82
	1260	**1NB1 506-6BR40-4CA0**	995	97.0	0,87	205	12093	2,30	85.5	2100	595	11452	96.3	0,87	210	10278	93.6	0,87	100	9741	90.4	0,84
	1700	**1NB1 562-6BR40-4CA0**	994	97.2	0,87	280	16332	2,30	120.2	2000	800	15465	96.6	0,88	285	13879	93.9	0,88	135	13154	91.0	0,85
	1760	**1NB1 564-6BR40-4CA0**	995	97.3	0,87	290	16891	2,40	136.6	2000	830	16001	96.8	0,88	295	14360	94.2	0,88	140	13611	91.4	0,86
	1900	**1NB1 566-6BR40-4CA0**	995	97.3	0,87	310	18235	2,60	151.8	2000	895	17266	96.9	0,88	320	15495	94.5	0,88	150	14686	91.8	0,85
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - const torque drive																						
	560	**1NB1 452-8BR40-4AA0**	742	95.6	0,77	106	7207	1,70	28.1	2200	265	6831	93.8	0,78	90	6131	88.4	0,79	45	5811	82.6	0,78
	580	**1NB1 452-8BR40-4CA0**	742	95.7	0,81	104	7464	1,70	36.3	2200	270	7071	93.9	0,81	95	6346	88.7	0,82	45	6014	82.9	0,80
	610	**1NB1 454-8BR40-4AA0**	744	96.0	0,78	114	7829	2,20	31.9	2200	285	7420	94.6	0,78	100	6659	89.8	0,78	45	6312	84.0	0,73
	620	**1NB1 454-8BR40-4CA0**	744	96.0	0,80	112	7958	2,20	41.1	2200	290	7539	94.7	0,80	105	6766	90.0	0,79	50	6413	84.4	0,75
	660	**1NB1 456-8BR40-4AA0**	743	96.0	0,79	120	8483	2,00	37.0	2200	310	8032	94.6	0,79	110	7209	90.1	0,80	50	6832	84.8	0,76
	670	**1NB1 456-8BR40-4CA0**	745	96.1	0,80	120	8588	2,30	47.4	2200	315	8140	94.9	0,80	110	7305	90.5	0,79	50	6924	85.1	0,74
	700	**1NB1 502-8BR40-4CA0**	744	95.7	0,85	120	8985	2,00	67.0	2100	330	8517	94.4	0,85	115	7643	90.3	0,84	55	7244	85.6	0,83
	630	**1NB1 502-8BR40-4AA0**	744	95.7	0,80	114	8086	1,90	52.0	2100	295	7661	94.4	0,80	105	6876	90.4	0,80	50	6517	85.8	0,79
	770	**1NB1 504-8BR40-4AA0**	745	96.0	0,80	140	9870	2,10	58.8	2100	360	9353	94.9	0,80	130	8394	91.4	0,79	60	7956	87.0	0,76
	800	**1NB1 504-8BR40-4CA0**	745	96.0	0,84	138	10254	2,40	75.6	2100	375	9712	95.0	0,84	135	8716	91.6	0,82	60	8261	87.3	0,79
	810	**1NB1 506-8BR40-4CA0**	746	95.9	0,83	142	10369	2,90	85.1	2100	380	9818	95.1	0,83	135	8811	91.9	0,80	65	8351	87.5	0,75
	800	**1NB1 506-8BR40-4AA0**	746	96.1	0,80	144	10241	2,60	66.3	2100	375	9708	95.2	0,80	135	8713	92.0	0,78	65	8258	87.5	0,72
	1080	**1NB1 562-8BR40-4CA0**	745	96.7	0,84	184	13843	2,30	119.6	2000	510	13112	96.0	0,85	180	11767	92.8	0,85	85	11153	89.1	0,81
	1250	**1NB1 564-8BR40-4CA0**	746	96.8	0,84	215	16001	2,40	136.3	2000	590	15166	96.2	0,85	210	13610	93.0	0,84	100	12900	89.5	0,80
	1350	**1NB1 566-8BR40-4CA0**	746	96.9	0,84	230	17281	2,60	151.7	2000	635	16366	96.4	0,84	225	14687	93.3	0,83	105	13921	89.8	0,78

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 452-2BR40-4AA0	5000	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	3041	180
1NB1 452-2BR40-4CA0	5200	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	3041	180
1NB1 454-2BR40-4AA0	5300	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	3041	180
1NB1 454-2BR40-4CA0	5400	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	3041	180
1NB1 456-2BR40-4AA0	5500	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	3041	180
1NB1 456-2BR40-4CA0	5700	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	3041	180
1NB1 502-2BR40-4CA0	6900	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	3357	200
1NB1 502-2BR40-4AA0	6700	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	3357	200
1NB1 504-2BR40-4AA0	7000	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	3357	200
1NB1 504-2BR40-4CA0	7200	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	3357	200
1NB1 506-2BR40-4AA0	7400	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	3357	200
1NB1 506-2BR40-4CA0	7600	1000	629	737	1194	1302	525	693	1320	315	110	165	500	1440	1155	1567	1758	3357	200
1NB1 564-2BR40-4CA0	9300	1120	684	737	1319	1372	525	693	1400	335	120	165	560	1565	1279	1691	1883	3508	225
1NB1 566-2BR40-4CA0	9700	1120	684	737	1319	1372	525	693	1400	335	120	165	560	1565	1279	1691	1883	3508	225
4-pole																			
1NB1 452-4BR40-4AA0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 452-4BR40-4CA0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-4BR40-4AA0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-4BR40-4CA0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-4BR40-4AA0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-4BR40-4CA0	5900	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 502-4BR40-4CA0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 502-4BR40-4AA0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-4BR40-4AA0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-4BR40-4CA0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-4BR40-4AA0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-4BR40-4CA0	7700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 560-4BR40-4CA0	8900	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 560-4BR40-4AA0	8600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 562-4BR40-4CA0	9300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 562-4BR40-4AA0	9000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 564-4BR40-4AA0	9400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 564-4BR40-4CA0	9700	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 566-4BR40-4AA0	9900	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 566-4BR40-4CA0	10300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
6-pole																			

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 452-6BR40-4AA0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 452-6BR40-4CA0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-6BR40-4AA0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-6BR40-4CA0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-6BR40-4AA0	5600	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-6BR40-4CA0	5800	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 500-6BR40-4CA0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 500-6BR40-4AA0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 502-6BR40-4AA0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 502-6BR40-4CA0	7000	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-6BR40-4AA0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-6BR40-4CA0	7400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-6BR40-4AA0	7600	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-6BR40-4CA0	7900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 562-6BR40-4CA0	9600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 564-6BR40-4CA0	10200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 566-6BR40-4CA0	10700	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
8-pole																			
1NB1 452-8BR40-4AA0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 452-8BR40-4CA0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-8BR40-4AA0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-8BR40-4CA0	5400	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-8BR40-4AA0	5600	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-8BR40-4CA0	5800	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 502-8BR40-4CA0	7000	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 502-8BR40-4AA0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-8BR40-4AA0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-8BR40-4CA0	7400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-8BR40-4CA0	7700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-8BR40-4AA0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 562-8BR40-4CA0	9400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 564-8BR40-4CA0	10100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 566-8BR40-4CA0	10600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225

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Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z	
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
SIMOTICS HV C - 1NB1 IC416 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NB1 452-4BR44-4AA0	5400	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 452-4BR44-4CA0	5600	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 454-4BR44-4AA0	5600	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 454-4BR44-4CA0	5700	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 456-4BR44-4AA0	5900	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 456-4BR44-4CA0	6100	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 502-4BR44-4CA0	7100	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 502-4BR44-4AA0	6900	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 504-4BR44-4AA0	7400	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 504-4BR44-4CA0	7600	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 506-4BR44-4AA0	7800	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 506-4BR44-4CA0	8000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 560-4BR44-4CA0	9200	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16	
1NB1 560-4BR44-4AA0	8900	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16	
1NB1 562-4BR44-4CA0	9700	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16	
1NB1 562-4BR44-4AA0	9400	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16	
1NB1 564-4BR44-4AA0	9800	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16	
1NB1 564-4BR44-4CA0	10100	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16	
1NB1 566-4BR44-4AA0	10300	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16	
1NB1 566-4BR44-4CA0	10600	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16	
6-pole														
1NB1 452-6BR44-4AA0	5300	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 452-6BR44-4CA0	5400	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 454-6BR44-4AA0	5500	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 454-6BR44-4CA0	5700	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 456-6BR44-4AA0	5900	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 456-6BR44-4CA0	6100	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8	
1NB1 500-6BR44-4CA0	7000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 500-6BR44-4AA0	6800	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 502-6BR44-4AA0	7000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 502-6BR44-4CA0	7300	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 504-6BR44-4AA0	7400	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 504-6BR44-4CA0	7700	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 506-6BR44-4AA0	7900	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 506-6BR44-4CA0	8100	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16	
1NB1 562-6BR44-4CA0	9900	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16	

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NB1 564-6BR44-4CA0	10500	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 566-6BR44-4CA0	11100	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
8-pole													
1NB1 452-8BR44-4AA0	5200	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 452-8BR44-4CA0	5400	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 454-8BR44-4AA0	5500	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 454-8BR44-4CA0	5700	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 456-8BR44-4AA0	5800	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 456-8BR44-4CA0	6000	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 502-8BR44-4CA0	7300	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 502-8BR44-4AA0	7000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 504-8BR44-4AA0	7400	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 504-8BR44-4CA0	7600	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 506-8BR44-4CA0	8000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 506-8BR44-4AA0	7800	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 562-8BR44-4CA0	9800	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 564-8BR44-4CA0	10400	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 566-8BR44-4CA0	11000	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16

SIMOTICS HV C - 1NB1 IC416 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - const torque drive																						
	1010	**1NB1 452-2BR30-4CA0**	3579	96.6	0,89	164	2695	2,10	- 899999999	3600	475	2554	96.1	0,89	170	2292	93.6	0,88	80	2173	90.9	0,87
	1100	**1NB1 454-2BR30-4CA0**	3584	96.8	0,90	176	2931	2,50	18.6	3600	520	2776	96.5	0,89	185	2492	94.4	0,88	85	2362	92.0	0,86
	1250	**1NB1 456-2BR30-4CA0**	3585	97.0	0,90	198	3330	2,70	20.6	3600	590	3153	96.7	0,90	210	2830	94.7	0,88	100	2682	92.4	0,85
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - const torque drive																						
	1170	**1NB1 452-4BR30-4AA0**	1792	96.8	0,85	198	6235	2,70	19.6	2400	550	5909	96.3	0,84	195	5303	93.5	0,82	90	5026	90.1	0,76
	1160	**1NB1 452-4BR30-4CA0**	1791	96.8	0,83	200	6185	2,30	25.2	2400	545	5857	96.3	0,83	195	5256	93.7	0,81	90	4982	90.7	0,77
	1150	**1NB1 454-4BR30-4AA0**	1793	96.8	0,84	196	6125	3,20	21.5	2400	545	5800	96.4	0,83	195	5205	93.9	0,80	90	4933	90.6	0,72
	1160	**1NB1 454-4BR30-4CA0**	1793	96.8	0,84	198	6178	2,70	27.6	2400	545	5854	96.5	0,83	195	5254	94.1	0,80	90	4979	91.3	0,75
	1200	**1NB1 456-4BR30-4AA0**	1794	96.8	0,84	205	6387	3,60	24.8	2400	565	6049	96.6	0,83	200	5429	94.1	0,80	95	5145	91.0	0,71
	1210	**1NB1 456-4BR30-4CA0**	1794	96.9	0,84	205	6441	3,00	31.7	2400	570	6101	96.6	0,83	205	5475	94.4	0,80	95	5189	91.8	0,74
	1420	**1NB1 502-4BR30-4CA0**	1792	96.7	0,85	240	7567	2,10	37.2	2200	670	7167	96.5	0,85	240	6432	94.4	0,84	110	6097	92.0	0,81
	1410	**1NB1 502-4BR30-4AA0**	1792	96.7	0,86	235	7514	2,60	28.4	2200	665	7122	96.4	0,86	235	6392	94.2	0,84	110	6058	91.5	0,80
	1400	**1NB1 504-4BR30-4AA0**	1793	96.7	0,88	230	7456	3,00	32.5	2200	660	7064	96.6	0,87	235	6340	94.5	0,85	110	6009	91.9	0,81
	1400	**1NB1 504-4BR30-4CA0**	1793	96.8	0,86	235	7456	2,40	42.4	2200	660	7064	96.6	0,86	235	6340	94.7	0,85	110	6009	92.5	0,82
	1570	**1NB1 506-4BR30-4AA0**	1793	96.8	0,88	255	8362	3,30	37.0	2200	740	7916	96.7	0,87	265	7104	94.5	0,85	125	6733	92.0	0,79
	1600	**1NB1 506-4BR30-4CA0**	1794	96.9	0,87	265	8517	2,60	48.0	2200	755	8068	96.8	0,86	270	7241	94.8	0,85	125	6863	92.7	0,80
	1820	**1NB1 560-4BR30-4CA0**	1792	97.1	0,84	310	9699	1,90	64.6	2000	860	9187	96.9	0,85	305	8245	94.9	0,83	145	7814	92.8	0,82
	1850	**1NB1 560-4BR30-4AA0**	1793	97.0	0,85	310	9853	2,10	48.3	2000	875	9334	96.9	0,86	310	8376	94.9	0,84	145	7939	92.7	0,82
	1955	**1NB1 562-4BR30-4CA0**	1793	97.3	0,86	325	10412	2,20	72.4	2000	920	9839	97.1	0,86	330	8830	95.2	0,85	155	8369	93.2	0,82
	1950	**1NB1 562-4BR30-4AA0**	1794	97.2	0,87	320	10380	2,60	54.4	2000	920	9836	97.0	0,87	330	8827	95.2	0,85	155	8367	93.0	0,81
	2100	**1NB1 564-4BR30-4AA0**	1794	97.3	0,88	340	11178	2,80	59.8	2000	990	10588	97.1	0,87	355	9502	95.2	0,85	165	9006	93.1	0,81
	2105	**1NB1 564-4BR30-4CA0**	1794	97.4	0,87	345	11205	2,40	79.3	2000	990	10592	97.2	0,86	355	9506	95.3	0,85	165	9010	93.4	0,82
	2310	**1NB1 566-4BR30-4AA0**	1795	97.4	0,88	375	12289	2,90	66.6	2000	1090	11642	97.2	0,88	390	10448	95.2	0,85	185	9902	93.0	0,80
	2325	**1NB1 566-4BR30-4CA0**	1794	97.5	0,88	375	12376	2,50	88.0	2000	1095	11696	97.2	0,87	390	10497	95.3	0,85	185	9949	93.3	0,82
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - const torque drive																						
	810	**1NB1 452-6BR30-4AA0**	1192	96.2	0,79	148	6489	1,80	28.0	2200	380	6147	95.4	0,80	135	5517	92.1	0,80	65	5229	88.4	0,77
	830	**1NB1 452-6BR30-4CA0**	1192	96.4	0,83	144	6649	2,00	36.2	2200	390	6298	95.4	0,83	140	5652	92.2	0,83	65	5357	88.6	0,80
	810	**1NB1 454-6BR30-4AA0**	1194	96.4	0,81	144	6478	2,20	31.8	2200	380	6137	95.7	0,81	135	5508	92.9	0,80	65	5220	89.3	0,75
	860	**1NB1 454-6BR30-4CA0**	1193	96.5	0,84	148	6884	2,30	41.0	2200	405	6521	95.8	0,83	145	5852	92.8	0,83	65	5547	89.4	0,79
	900	**1NB1 456-6BR30-4AA0**	1194	96.5	0,81	160	7198	2,40	36.8	2200	425	6815	96.0	0,81	150	6116	93.3	0,80	70	5797	90.0	0,74
	1000	**1NB1 456-6BR30-4CA0**	1194	96.6	0,84	172	7998	2,40	47.3	2200	470	7579	96.0	0,84	165	6802	93.2	0,83	80	6447	89.9	0,79
	1150	**1NB1 500-6BR30-4CA0**	1194	96.8	0,86	192	9197	1,90	59.8	2100	540	8715	95.9	0,86	190	7821	93.0	0,87	90	7413	89.7	0,86
	1100	**1NB1 500-6BR30-4AA0**	1192	96.6	0,83	190	8812	2,00	46.4	2100	520	8347	95.7	0,84	185	7491	92.3	0,84	85	7100	88.7	0,83

SIMOTICS HV C - 1NB1 IC416 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	1170	**1NB1 502-6BR30-4AA0**	1193	96.7	0,83	200	9365	2,20	52.7	2100	550	8876	96.0	0,84	195	7966	92.9	0,84	90	7550	89.5	0,82
	1250	**1NB1 502-6BR30-4CA0**	1194	96.9	0,86	210	9997	2,00	67.5	2100	590	9466	96.2	0,86	210	8495	93.5	0,87	100	8052	90.4	0,85
	1270	**1NB1 504-6BR30-4AA0**	1193	96.9	0,85	215	10166	2,40	59.6	2100	600	9627	96.2	0,85	210	8640	93.2	0,85	100	8189	90.0	0,82
	1350	**1NB1 504-6BR30-4CA0**	1195	97.0	0,87	220	10788	2,10	76.1	2100	635	10224	96.4	0,87	225	9175	93.8	0,87	105	8697	91.0	0,85
	1350	**1NB1 506-6BR30-4AA0**	1194	96.9	0,85	225	10797	2,70	67.3	2100	635	10224	96.3	0,85	225	9175	93.5	0,85	105	8697	90.2	0,81
	1400	**1NB1 506-6BR30-4CA0**	1196	97.1	0,87	230	11178	2,50	85.5	2100	660	10589	96.5	0,87	235	9503	94.1	0,87	110	9007	91.2	0,83
	1850	**1NB1 562-6BR30-4CA0**	1194	97.2	0,87	305	14796	2,30	120.2	2000	870	14008	96.8	0,88	310	12572	94.5	0,89	145	11915	91.9	0,86
	2100	**1NB1 564-6BR30-4CA0**	1194	97.3	0,88	340	16795	2,30	136.6	2000	990	15902	96.9	0,88	350	14271	94.6	0,89	165	13526	92.2	0,87
	2210	**1NB1 566-6BR30-4CA0**	1195	97.4	0,88	360	17660	2,40	151.8	2000	1040	16728	97.1	0,88	370	15013	94.8	0,89	175	14229	92.5	0,86
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - const torque drive																						
	680	**1NB1 452-8BR30-4AA0**	892	95.9	0,78	126	7280	1,80	28.1	2200	320	6900	94.4	0,78	115	6192	90.0	0,79	50	5869	84.8	0,77
	700	**1NB1 452-8BR30-4CA0**	893	95.9	0,81	126	7485	1,80	36.3	2200	330	7095	94.6	0,81	115	6367	90.1	0,81	55	6035	85.0	0,79
	750	**1NB1 454-8BR30-4AA0**	893	96.1	0,78	138	8020	1,90	31.9	2200	355	7600	94.9	0,78	125	6820	90.9	0,79	60	6464	86.2	0,76
	750	**1NB1 454-8BR30-4CA0**	893	96.2	0,81	134	8020	2,00	41.1	2200	355	7598	95.1	0,81	125	6819	91.2	0,81	60	6463	86.6	0,77
	800	**1NB1 456-8BR30-4AA0**	894	96.3	0,79	146	8545	2,10	37.0	2200	375	8098	95.2	0,79	135	7267	91.4	0,79	60	6888	86.9	0,74
	800	**1NB1 456-8BR30-4CA0**	894	96.3	0,81	142	8545	2,20	47.4	2200	375	8094	95.3	0,81	135	7264	91.6	0,80	60	6885	87.2	0,75
	830	**1NB1 502-8BR30-4CA0**	894	95.9	0,85	142	8866	2,00	67.0	2100	390	8404	94.8	0,85	140	7542	91.3	0,84	65	7149	87.3	0,82
	800	**1NB1 502-8BR30-4AA0**	893	95.9	0,80	144	8555	1,70	52.0	2100	375	8102	94.7	0,80	135	7271	91.0	0,80	60	6892	86.9	0,79
	850	**1NB1 504-8BR30-4CA0**	896	96.0	0,84	146	9059	2,60	75.6	2100	400	8584	95.2	0,84	140	7704	92.3	0,82	65	7302	88.5	0,78
	850	**1NB1 504-8BR30-4AA0**	896	96.1	0,80	154	9059	2,50	58.8	2100	400	8589	95.3	0,80	140	7708	92.4	0,77	65	7306	88.4	0,72
	910	**1NB1 506-8BR30-4AA0**	895	96.1	0,81	162	9709	2,30	66.3	2100	430	9193	95.3	0,81	150	8250	92.4	0,79	70	7819	88.6	0,75
	910	**1NB1 506-8BR30-4CA0**	896	96.0	0,84	156	9699	2,70	85.1	2100	430	9186	95.4	0,84	150	8244	92.6	0,81	70	7814	88.9	0,77
	1200	**1NB1 562-8BR30-4CA0**	895	96.7	0,85	205	12804	2,10	119.6	2000	565	12132	96.2	0,85	200	10888	93.5	0,85	95	10319	90.4	0,82
	1400	**1NB1 564-8BR30-4CA0**	895	96.8	0,85	235	14937	2,10	136.3	2000	660	14154	96.3	0,85	235	12703	93.4	0,86	110	12039	90.4	0,83
	1500	**1NB1 566-8BR30-4CA0**	896	96.9	0,85	255	15987	2,40	151.7	2000	705	15146	96.5	0,85	250	13593	93.9	0,84	120	12883	91.0	0,80

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NB1 452-2BR30-4CA0	5100	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	3041	180
1NB1 454-2BR30-4CA0	5400	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	3041	180
1NB1 456-2BR30-4CA0	5600	900	557	737	1072	1252	525	693	1250	280	95	130	450	1329	1044	1456	1647	3041	180
4-pole																			
1NB1 452-4BR30-4AA0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 452-4BR30-4CA0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-4BR30-4AA0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-4BR30-4CA0	5500	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-4BR30-4AA0	5700	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-4BR30-4CA0	5900	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 502-4BR30-4CA0	6900	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 502-4BR30-4AA0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-4BR30-4AA0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-4BR30-4CA0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-4BR30-4AA0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-4BR30-4CA0	7700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 560-4BR30-4CA0	8900	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 560-4BR30-4AA0	8600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 562-4BR30-4CA0	9300	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 562-4BR30-4AA0	9000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 564-4BR30-4AA0	9400	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 564-4BR30-4CA0	9700	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 566-4BR30-4AA0	9900	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 566-4BR30-4CA0	10200	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
6-pole																			
1NB1 452-6BR30-4AA0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 452-6BR30-4CA0	5200	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-6BR30-4AA0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-6BR30-4CA0	5400	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-6BR30-4AA0	5600	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-6BR30-4CA0	5800	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 500-6BR30-4CA0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 500-6BR30-4AA0	6500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 502-6BR30-4AA0	6800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 502-6BR30-4CA0	7000	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-6BR30-4AA0	7200	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NB1 504-6BR30-4CA0	7400	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-6BR30-4AA0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-6BR30-4CA0	7800	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 562-6BR30-4CA0	9500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 564-6BR30-4CA0	10100	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 566-6BR30-4CA0	10700	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
8-pole																			
1NB1 452-8BR30-4AA0	5000	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 452-8BR30-4CA0	5100	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-8BR30-4AA0	5300	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 454-8BR30-4CA0	5400	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-8BR30-4AA0	5600	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 456-8BR30-4CA0	5800	900	557	737	1072	1252	525	693	1250	280	120	165	450	1329	1044	1456	1647	3076	180
1NB1 502-8BR30-4CA0	7000	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 502-8BR30-4AA0	6700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-8BR30-4CA0	7300	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 504-8BR30-4AA0	7100	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-8BR30-4AA0	7500	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 506-8BR30-4CA0	7700	1000	629	737	1194	1302	525	693	1320	315	140	200	500	1440	1155	1567	1758	3392	200
1NB1 562-8BR30-4CA0	9500	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 564-8BR30-4CA0	10000	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225
1NB1 566-8BR30-4CA0	10600	1120	684	737	1319	1372	525	693	1400	335	160	240	560	1565	1279	1691	1883	3583	225

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Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NB1 452-4BR34-4AA0	5400	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 452-4BR34-4CA0	5500	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 454-4BR34-4AA0	5600	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 454-4BR34-4CA0	5700	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 456-4BR34-4AA0	6000	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 456-4BR34-4CA0	6100	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 502-4BR34-4CA0	7200	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 502-4BR34-4AA0	7000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 504-4BR34-4AA0	7300	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 504-4BR34-4CA0	7600	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 506-4BR34-4AA0	7800	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 506-4BR34-4CA0	8000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 560-4BR34-4CA0	9200	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 560-4BR34-4AA0	8900	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 562-4BR34-4CA0	9700	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 562-4BR34-4AA0	9400	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 564-4BR34-4AA0	9700	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 564-4BR34-4CA0	10100	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 566-4BR34-4AA0	10200	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 566-4BR34-4CA0	10600	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
6-pole														
1NB1 452-6BR34-4AA0	5300	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 452-6BR34-4CA0	5400	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 454-6BR34-4AA0	5500	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 454-6BR34-4CA0	5700	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 456-6BR34-4AA0	5900	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 456-6BR34-4CA0	6100	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 500-6BR34-4CA0	7000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 500-6BR34-4AA0	6800	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 502-6BR34-4AA0	7100	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 502-6BR34-4CA0	7300	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 504-6BR34-4AA0	7500	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 504-6BR34-4CA0	7700	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 506-6BR34-4AA0	7800	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 506-6BR34-4CA0	8100	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 562-6BR34-4CA0	9800	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NB1 IC416 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NB1 564-6BR34-4CA0	10500	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 566-6BR34-4CA0	11100	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
8-pole													
1NB1 452-8BR34-4AA0	5200	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 452-8BR34-4CA0	5400	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 454-8BR34-4AA0	5500	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 454-8BR34-4CA0	5700	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 456-8BR34-4AA0	5800	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 456-8BR34-4CA0	6000	1132	525	120	1454	1581	3076	3284	1080	1000	1150	28	8
1NB1 502-8BR34-4CA0	7200	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 502-8BR34-4AA0	7000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 504-8BR34-4CA0	7600	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 504-8BR34-4AA0	7400	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 506-8BR34-4AA0	7800	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 506-8BR34-4CA0	8000	1254	525	140	1565	1692	3392	3600	1180	1120	1250	28	16
1NB1 562-8BR34-4CA0	9800	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 564-8BR34-4CA0	10400	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16
1NB1 566-8BR34-4CA0	11000	1384	525	160	1705	1831	3583	3791	1320	1250	1400	28	16

SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - const torque drive																						
560	490	**1NC1 402-2AC00-4AG0**	2982	96.3	0,94	520	1793	4,10	9.0	3600	225	1438	95.9	0,92	70	1131	93.9	0,89	30	1012	90.7	0,88
560	490	**1NC1 402-2AC00-4CG0**	2982	96.2	0,94	520	1793	4,00	11.0	3600	225	1438	95.7	0,92	70	1131	93.6	0,88	30	1012	90.4	0,87
630	560	**1NC1 404-2AC00-4AG0**	2984	96.6	0,94	580	2016	4,60	10.0	3600	250	1619	96.1	0,91	80	1273	94.3	0,88	35	1139	91.5	0,87
630	560	**1NC1 404-2AC00-4CG0**	2984	96.4	0,94	580	2016	4,50	12.0	3600	250	1618	95.9	0,91	80	1272	94.1	0,87	35	1139	91.3	0,86
710	630	**1NC1 406-2AC00-4AG0**	2985	96.8	0,93	660	2271	4,70	11.0	3600	285	1823	96.3	0,91	90	1433	94.8	0,87	40	1283	92.2	0,85
710	630	**1NC1 406-2AC00-4CG0**	2986	96.7	0,93	660	2271	4,60	13.0	3600	285	1822	96.2	0,90	90	1433	94.6	0,86	40	1283	92.1	0,85
710	630	**1NC1 452-2AC00-4AG0**	2987	96.9	0,93	660	2270	3,20	11.0	3600	285	1821	96.7	0,91	90	1431	95.3	0,89	40	1282	92.8	0,88
710	630	**1NC1 452-2AC00-4CG0**	2987	96.8	0,93	660	2270	3,10	15.0	3600	285	1821	96.6	0,91	90	1431	95.2	0,89	40	1282	92.8	0,88
800	710	**1NC1 454-2AC00-4AG0**	2987	97.0	0,94	730	2558	3,50	12.0	3600	320	2052	96.7	0,92	100	1613	95.2	0,90	45	1444	92.7	0,89
800	710	**1NC1 454-2AC00-4CG0**	2987	96.9	0,94	730	2558	3,40	17.0	3600	320	2051	96.6	0,92	100	1612	95.1	0,90	45	1444	92.6	0,89
900	790	**1NC1 456-2AC00-4AG0**	2989	97.2	0,94	820	2875	4,20	14.0	3600	360	2308	96.9	0,92	115	1815	95.6	0,89	50	1625	93.5	0,88
900	790	**1NC1 456-2AC00-4CG0**	2989	97.1	0,94	830	2875	4,10	19.0	3600	360	2308	96.7	0,92	115	1814	95.5	0,89	50	1624	93.5	0,88
1050	930	**1NC1 502-2AC00-4CG0**	2987	96.5	0,90	1020	3357	3,10	25.0	3000	420	2693	96.1	0,89	130	2117	94.7	0,87	60	1896	92.4	0,86
1050	930	**1NC1 502-2AC00-4AG0**	2986	96.6	0,89	1020	3358	3,10	19.0	3000	420	2693	96.3	0,89	130	2117	94.8	0,87	60	1896	92.4	0,86
1200	1060	**1NC1 504-2AC00-4CG0**	2989	96.8	0,90	1160	3834	3,70	28.0	3000	480	3075	96.3	0,89	150	2417	95.0	0,86	65	2164	93.1	0,85
1200	1060	**1NC1 504-2AC00-4AG0**	2989	96.9	0,90	1160	3834	3,70	21.0	3000	480	3075	96.5	0,89	150	2417	95.2	0,86	65	2164	93.2	0,85
1300	1150	**1NC1 506-2AC00-4CG0**	2989	96.8	0,91	1240	4153	3,60	31.0	3000	520	3331	96.3	0,90	165	2619	95.0	0,88	70	2345	93.0	0,87
1300	1150	**1NC1 506-2AC00-4AG0**	2988	97.0	0,91	1240	4155	3,80	24.0	3000	520	3331	96.5	0,90	165	2619	95.1	0,88	70	2345	93.1	0,87
1400	1230	**1NC1 564-2AC00-4CG0**	2993	96.9	0,90	1340	4467	3,90	46.0	3000	560	3582	96.4	0,88	175	2816	95.4	0,85	80	2522	93.9	0,84
1600	1410	**1NC1 566-2AC00-4CG0**	2992	97.0	0,92	1500	5107	3,70	51.0	3000	640	4096	96.5	0,90	200	3219	95.3	0,88	90	2883	93.8	0,87
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - const torque drive																						
630	560	**1NC1 404-4AC00-4AG0**	1492	96.4	0,90	610	4032	3,50	14.0	2600	250	3236	95.1	0,88	80	2544	93.0	0,85	35	2278	89.9	0,83
630	560	**1NC1 404-4AC00-4CG0**	1490	96.4	0,89	610	4038	3,10	19.0	2600	250	3239	95.3	0,87	80	2546	93.1	0,85	35	2280	89.8	0,83
710	630	**1NC1 406-4AC00-4AG0**	1491	96.4	0,91	680	4547	3,50	16.0	2600	285	3647	95.2	0,88	90	2866	93.1	0,85	40	2567	90.1	0,84
710	630	**1NC1 406-4AC00-4CG0**	1490	96.5	0,90	680	4550	3,10	21.0	2600	285	3650	95.4	0,88	90	2869	93.3	0,85	40	2569	90.1	0,84
800	710	**1NC1 452-4AC00-4AG0**	1493	96.7	0,89	780	5117	3,50	22.0	2400	320	4106	95.8	0,86	100	3228	93.9	0,82	45	2890	91.2	0,80
800	710	**1NC1 452-4AC00-4CG0**	1492	96.6	0,88	790	5120	3,20	29.0	2400	320	4106	95.9	0,85	100	3228	94.0	0,81	45	2890	91.2	0,80
900	790	**1NC1 454-4AC00-4AG0**	1493	96.8	0,89	870	5756	3,70	25.0	2400	360	4618	95.8	0,86	110	3630	94.0	0,82	50	3251	91.5	0,80
900	790	**1NC1 454-4AC00-4CG0**	1493	96.7	0,88	880	5756	3,30	32.0	2400	360	4618	95.9	0,85	110	3630	94.1	0,81	50	3251	91.5	0,80
1000	880	**1NC1 456-4AC00-4CG0**	1493	96.9	0,89	970	6396	3,50	37.0	2400	400	5129	96.0	0,86	125	4032	94.3	0,81	55	3610	91.9	0,80
1000	880	**1NC1 456-4AC00-4AG0**	1493	96.9	0,90	960	6396	3,90	29.0	2400	400	5130	95.9	0,86	125	4032	94.2	0,82	55	3611	91.8	0,81
1050	930	**1NC1 502-4AC00-4CG0**	1493	96.2	0,87	1040	6716	2,80	35.0	2200	420	5390	95.6	0,85	130	4237	93.5	0,81	60	3794	90.3	0,80
1050	930	**1NC1 502-4AC00-4AG0**	1493	96.1	0,87	1060	6716	3,50	26.0	2200	420	5390	95.3	0,84	130	4237	93.0	0,80	60	3794	89.7	0,78
1200	1060	**1NC1 504-4AC00-4CG0**	1493	96.5	0,86	1200	7675	2,70	40.0	2200	480	6159	95.8	0,85	150	4842	94.0	0,81	65	4336	91.2	0,80

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SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD const torque																						
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1200	1060	**1NC1 504-4AC00-4AG0**	1493	96.4	0,87	1200	7675	3,50	30.0	2200	480	6159	95.5	0,84	150	4842	93.5	0,80	65	4336	90.7	0,79
1300	1150	**1NC1 506-4AC00-4CG0**	1493	96.5	0,88	1280	8315	2,80	45.0	2200	520	6671	95.7	0,86	165	5244	93.9	0,83	70	4696	91.1	0,82
1300	1150	**1NC1 506-4AC00-4AG0**	1493	96.5	0,89	1260	8315	3,60	35.0	2200	520	6673	95.5	0,86	160	5245	93.5	0,83	70	4697	90.7	0,81
1400	1230	**1NC1 562-4AC00-4CG0**	1493	96.4	0,88	1380	8954	2,70	68.0	2000	560	7186	96.0	0,86	175	5649	94.2	0,83	80	5059	91.5	0,83
1400	1230	**1NC1 562-4AC00-4AG0**	1494	96.4	0,88	1380	8948	3,10	50.0	2000	560	7184	95.9	0,87	175	5647	94.2	0,83	80	5057	91.4	0,82
1600	1410	**1NC1 564-4AC00-4AG0**	1494	96.7	0,89	1560	10227	3,20	55.0	2000	640	8206	96.1	0,86	200	6451	94.6	0,83	90	5776	92.4	0,81
1600	1410	**1NC1 564-4AC00-4CG0**	1494	96.8	0,88	1580	10227	2,80	75.0	2000	640	8209	96.2	0,86	200	6453	94.7	0,83	90	5778	92.5	0,82
1800	1590	**1NC1 566-4AC00-4AG0**	1493	96.8	0,90	1720	11513	3,00	62.0	2000	720	9239	96.2	0,88	225	7263	94.6	0,85	100	6503	92.2	0,85
1800	1590	**1NC1 566-4AC00-4CG0**	1493	96.9	0,89	1740	11513	2,60	83.0	2000	720	9240	96.2	0,88	225	7263	94.6	0,85	100	6504	92.2	0,85
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - const torque drive																						
500	440	**1NC1 404-6AC00-4AG0**	995	96.1	0,88	495	4799	3,40	25.0	2400	200	3850	94.3	0,86	60	3027	91.5	0,83	30	2710	87.8	0,82
500	440	**1NC1 404-6AC00-4CG0**	994	96.2	0,87	500	4803	2,90	32.0	2400	200	3856	94.8	0,86	60	3031	92.0	0,83	30	2714	88.1	0,82
560	490	**1NC1 406-6AC00-4AG0**	995	96.2	0,89	550	5374	3,40	28.0	2400	225	4313	94.5	0,87	70	3390	91.8	0,83	30	3036	88.2	0,82
560	490	**1NC1 406-6AC00-4CG0**	994	96.3	0,88	550	5380	2,90	37.0	2400	225	4318	95.0	0,86	70	3394	92.3	0,84	30	3039	88.6	0,83
630	560	**1NC1 452-6AC00-4AG0**	995	96.3	0,84	650	6046	3,60	33.0	2200	250	4852	94.6	0,79	80	3814	91.9	0,75	35	3415	88.3	0,73
630	560	**1NC1 452-6AC00-4CG0**	994	96.5	0,84	650	6052	3,10	42.0	2200	250	4856	95.0	0,81	80	3818	92.5	0,77	35	3418	88.9	0,76
710	630	**1NC1 454-6AC00-4AG0**	995	96.4	0,84	730	6814	3,70	38.0	2200	285	5466	94.7	0,79	90	4297	92.2	0,75	40	3847	88.7	0,73
710	630	**1NC1 454-6AC00-4CG0**	995	96.6	0,84	730	6814	3,30	47.0	2200	285	5470	95.2	0,81	90	4300	92.8	0,77	40	3850	89.4	0,76
800	710	**1NC1 456-6AC00-4AG0**	996	96.4	0,83	840	7670	4,40	44.0	2200	320	6159	94.5	0,76	100	4841	91.9	0,71	45	4335	88.5	0,68
800	710	**1NC1 456-6AC00-4CG0**	995	96.6	0,84	820	7678	3,80	55.0	2200	320	6155	95.1	0,78	100	4839	92.8	0,74	45	4333	89.6	0,72
900	790	**1NC1 500-6AC00-4CG0**	994	96.3	0,86	910	8646	2,10	57.0	2100	360	6941	95.5	0,86	110	5456	93.1	0,84	50	4886	89.7	0,83
900	790	**1NC1 500-6AC00-4AG0**	992	96.1	0,84	930	8664	2,20	44.0	2100	360	6952	95.0	0,83	110	5464	92.3	0,82	50	4893	88.4	0,82
1000	880	**1NC1 502-6AC00-4AG0**	993	96.4	0,83	1040	9617	2,50	50.0	2100	400	7719	95.3	0,82	125	6068	92.9	0,80	55	5433	89.5	0,79
1000	880	**1NC1 502-6AC00-4CG0**	995	96.6	0,86	1000	9597	2,40	65.0	2100	400	7701	95.8	0,84	125	6054	93.7	0,82	55	5421	90.7	0,81
1120	990	**1NC1 504-6AC00-4CG0**	995	96.6	0,87	1120	10749	2,20	74.0	2100	450	8630	95.8	0,86	140	6784	93.6	0,84	60	6074	90.4	0,83
1120	990	**1NC1 504-6AC00-4AG0**	993	96.4	0,85	1140	10771	2,30	57.0	2100	450	8649	95.3	0,85	140	6799	92.8	0,83	60	6088	89.2	0,82
1250	1100	**1NC1 506-6AC00-4CG0**	995	96.7	0,87	1240	11997	2,40	83.0	2100	500	9624	95.7	0,85	155	7565	93.7	0,83	70	6774	90.9	0,82
1250	1100	**1NC1 506-6AC00-4AG0**	993	96.5	0,86	1260	12021	2,60	65.0	2100	500	9642	95.3	0,84	155	7580	92.9	0,82	70	6787	89.7	0,81
1300	1150	**1NC1 562-6AC00-4CG0**	995	96.9	0,87	1300	12476	2,80	116.0	2000	520	10006	96.0	0,86	160	7865	94.0	0,84	70	7043	91.1	0,82
1500	1320	**1NC1 564-6AC00-4CG0**	996	97.0	0,87	1480	14381	3,10	132.0	2000	600	11538	96.0	0,85	190	9070	94.0	0,82	85	8121	91.5	0,80
1700	1500	**1NC1 566-6AC00-4CG0**	997	97.1	0,85	1720	16283	3,70	147.0	2000	680	13075	95.8	0,81	215	10278	94.0	0,77	95	9203	91.8	0,75
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - const torque drive																						
375	330	**1NC1 404-8AC00-4AG0**	745	95.7	0,83	395	4807	3,40	25.0	2400	150	3858	93.1	0,78	45	3033	89.1	0,73	20	2716	84.0	0,72
375	330	**1NC1 404-8AC00-4CG0**	744	95.7	0,81	405	4813	2,90	32.0	2400	150	3865	93.4	0,78	45	3039	89.4	0,73	20	2721	83.9	0,72
420	370	**1NC1 406-8AC00-4AG0**	744	95.8	0,84	435	5391	3,20	29.0	2400	170	4323	93.3	0,80	50	3398	89.5	0,75	25	3043	84.4	0,74

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SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - VSD const torque

Rated power IEC		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
420	370	**1NC1 406-8AC00-4CG0**	743	95.7	0,82	450	5398	2,80	36.0	2400	170	4331	93.5	0,79	50	3405	89.5	0,75	25	3049	84.2	0,74
530	470	**1NC1 452-8AC00-4AG0**	744	95.7	0,78	590	6803	2,70	33.0	2200	210	5459	93.6	0,75	65	4292	89.8	0,71	30	3843	84.6	0,70
530	470	**1NC1 452-8AC00-4CG0**	743	95.7	0,78	590	6812	2,70	41.0	2200	210	5472	93.7	0,75	65	4302	89.9	0,73	30	3852	84.5	0,72
600	530	**1NC1 454-8AC00-4AG0**	745	95.8	0,79	660	7691	2,80	38.0	2200	240	6177	93.6	0,75	75	4856	89.9	0,71	35	4348	84.9	0,70
600	530	**1NC1 454-8AC00-4CG0**	743	95.8	0,79	660	7711	2,90	47.0	2200	240	6189	93.8	0,76	75	4865	90.1	0,73	35	4356	84.9	0,72
670	590	**1NC1 456-8AC00-4AG0**	745	95.9	0,79	740	8588	3,10	45.0	2200	270	6891	93.5	0,74	85	5417	89.9	0,70	35	4850	84.9	0,69
670	590	**1NC1 456-8AC00-4CG0**	744	95.9	0,79	740	8600	3,20	55.0	2200	270	6900	93.8	0,75	85	5424	90.2	0,72	35	4857	85.1	0,70
710	630	**1NC1 502-8AC00-4CG0**	745	95.7	0,85	730	9101	2,30	65.0	2100	285	7308	94.6	0,82	90	5744	91.8	0,79	40	5144	87.6	0,77
710	630	**1NC1 502-8AC00-4AG0**	744	95.8	0,80	780	9113	1,90	50.0	2100	285	7317	94.6	0,79	90	5752	91.7	0,76	40	5151	87.1	0,76
800	710	**1NC1 504-8AC00-4AG0**	744	96.0	0,80	870	10268	2,20	56.0	2100	320	8234	94.7	0,78	100	6472	92.0	0,75	45	5796	87.9	0,74
800	710	**1NC1 504-8AC00-4CG0**	745	95.9	0,84	830	10254	2,50	73.0	2100	320	8226	94.6	0,81	100	6466	92.0	0,77	45	5790	88.2	0,75
900	790	**1NC1 506-8AC00-4AG0**	745	96.0	0,81	970	11536	2,30	64.0	2100	360	9263	94.6	0,78	110	7282	91.9	0,74	50	6520	88.0	0,73
900	790	**1NC1 506-8AC00-4CG0**	746	95.9	0,84	930	11521	2,70	83.0	2100	360	9249	94.5	0,80	110	7270	91.8	0,76	50	6510	88.2	0,74
1120	990	**1NC1 562-8AC00-4CG0**	745	96.6	0,84	1160	14356	2,20	115.0	2000	450	11522	95.4	0,83	140	9057	92.9	0,80	60	8110	89.4	0,79
1250	1100	**1NC1 564-8AC00-4CG0**	745	96.6	0,84	1280	16022	2,40	132.0	2000	500	12850	95.5	0,82	155	10101	92.9	0,80	70	9045	89.4	0,78
1400	1230	**1NC1 566-8AC00-4CG0**	745	96.7	0,85	1420	17945	2,20	147.0	2000	560	14401	95.6	0,84	175	11320	93.1	0,82	75	10137	89.7	0,80

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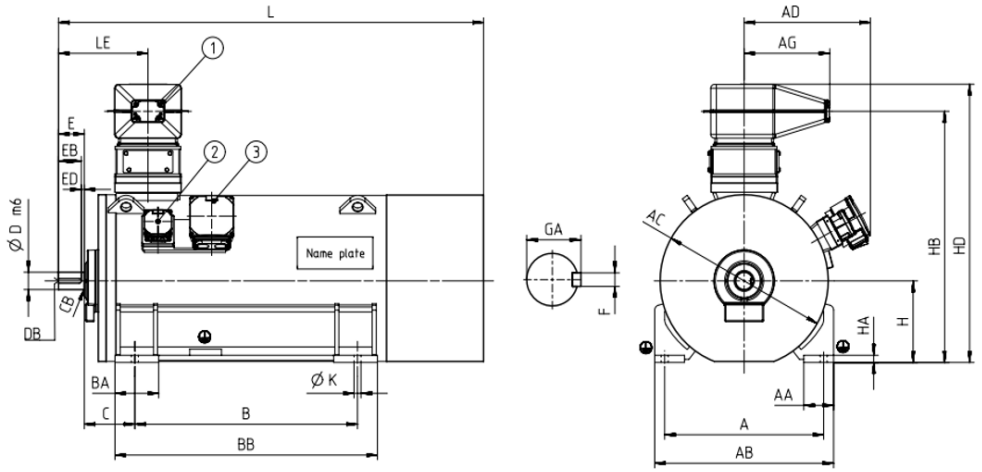

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 402-2AC00-4AG0	3405	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 402-2AC00-4CG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 404-2AC00-4AG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 404-2AC00-4CG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 406-2AC00-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 406-2AC00-4CG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 452-2AC00-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 452-2AC00-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AC00-4AG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AC00-4CG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AC00-4AG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AC00-4CG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 502-2AC00-4CG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 502-2AC00-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 504-2AC00-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 504-2AC00-4AG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 506-2AC00-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 506-2AC00-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 564-2AC00-4CG0	7895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	1557	o.r.	1690	o.r.	2598	o.r.
1NC1 566-2AC00-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	1557	o.r.	1690	o.r.	2598	o.r.

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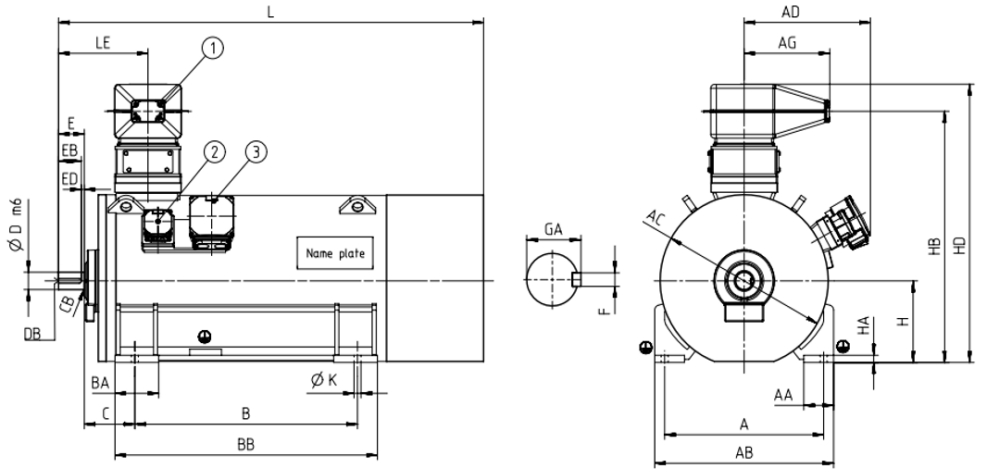

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
4-pole																			
1NC1 404-4AC00-4AG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-4AC00-4CG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-4AC00-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-4AC00-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-4AC00-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-4AC00-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AC00-4AG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AC00-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AC00-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AC00-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-4AC00-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-4AC00-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AC00-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AC00-4AG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AC00-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AC00-4AG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-4AC00-4CG0	7995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AC00-4AG0	7695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AC00-4AG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AC00-4CG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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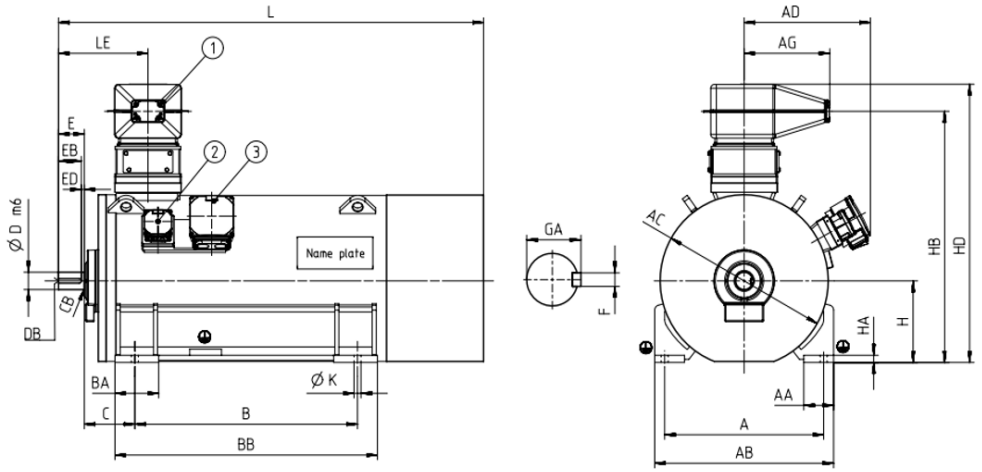

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 566-4AC00-4AG0	8695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AC00-4CG0	9095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
6-pole																			
1NC1 404-6AC00-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-6AC00-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-6AC00-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-6AC00-4CG0	4205	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-6AC00-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-6AC00-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AC00-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AC00-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AC00-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AC00-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 500-6AC00-4CG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 500-6AC00-4AG0	5575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AC00-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AC00-4CG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AC00-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AC00-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AC00-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AC00-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.

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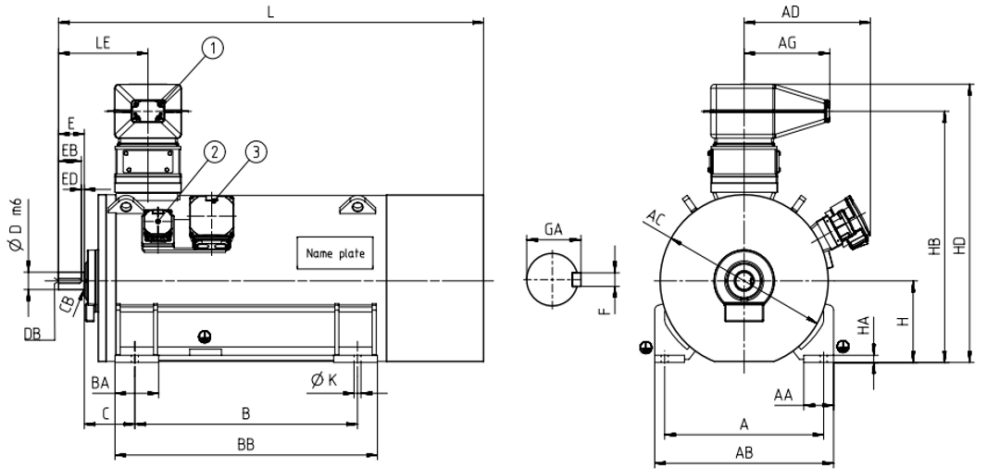

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 562-6AC00-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-6AC00-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-6AC00-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
8-pole																			
1NC1 404-8AC00-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-8AC00-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-8AC00-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-8AC00-4CG0	4105	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-8AC00-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-8AC00-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AC00-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AC00-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AC00-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AC00-4CG0	5225	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-8AC00-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-8AC00-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AC00-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AC00-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AC00-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AC00-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-8AC00-4CG0	8395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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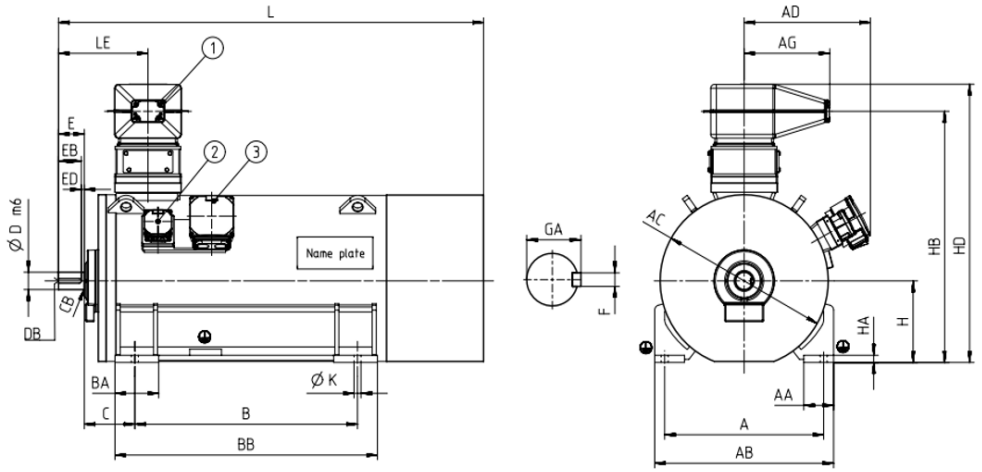

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 564-8AC00-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-8AC00-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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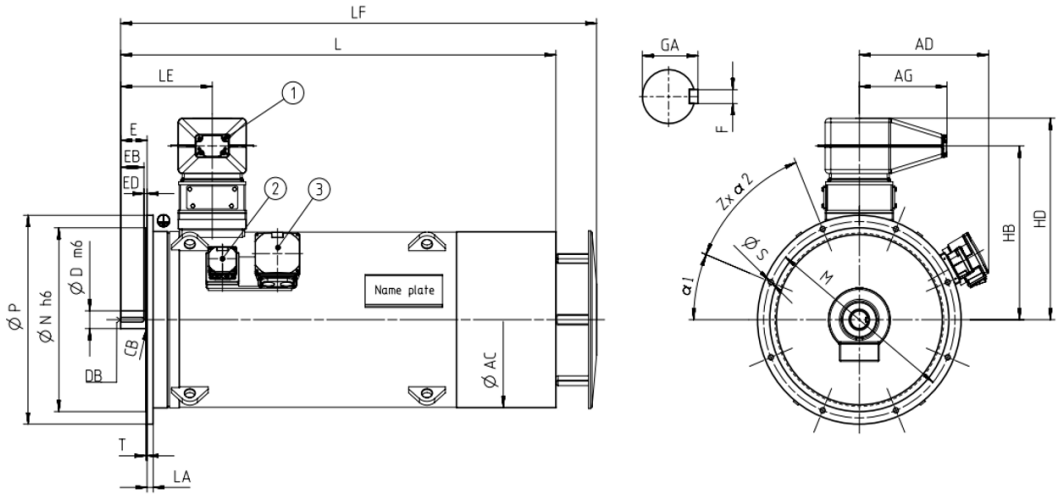

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
2-pole													
1NC1 402-2AC04-4AG0	4000	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 402-2AC04-4CG0	4000	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 404-2AC04-4AG0	4100	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 404-2AC04-4CG0	4200	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 406-2AC04-4AG0	4300	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
1NC1 406-2AC04-4CG0	4400	o.r.	431	85	832	965	2138	o.r.	940	880	1000	o.r.	8
4-pole													
1NC1 404-4AC04-4AG0	4200	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-4AC04-4CG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AC04-4AG0	4400	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AC04-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-4AC04-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AC04-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AC04-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AC04-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AC04-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AC04-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AC04-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AC04-4AG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AC04-4CG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16

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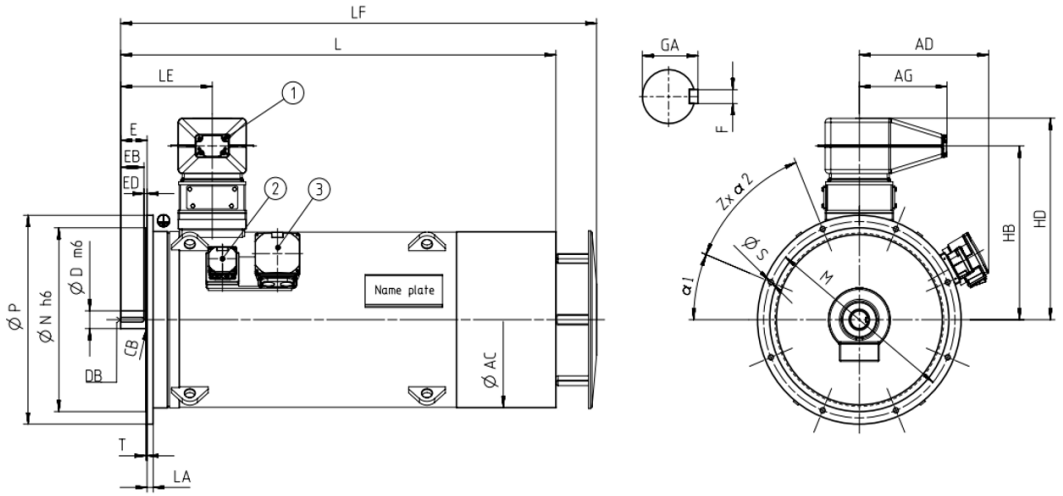

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 504-4AC04-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AC04-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AC04-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-4AC04-4CG0	9300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AC04-4AG0	9000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AC04-4AG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AC04-4CG0	9800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AC04-4AG0	10000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AC04-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
6-pole													
1NC1 404-6AC04-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-6AC04-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AC04-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AC04-4CG0	4800	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-6AC04-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AC04-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AC04-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AC04-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AC04-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AC04-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AC04-4CG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16

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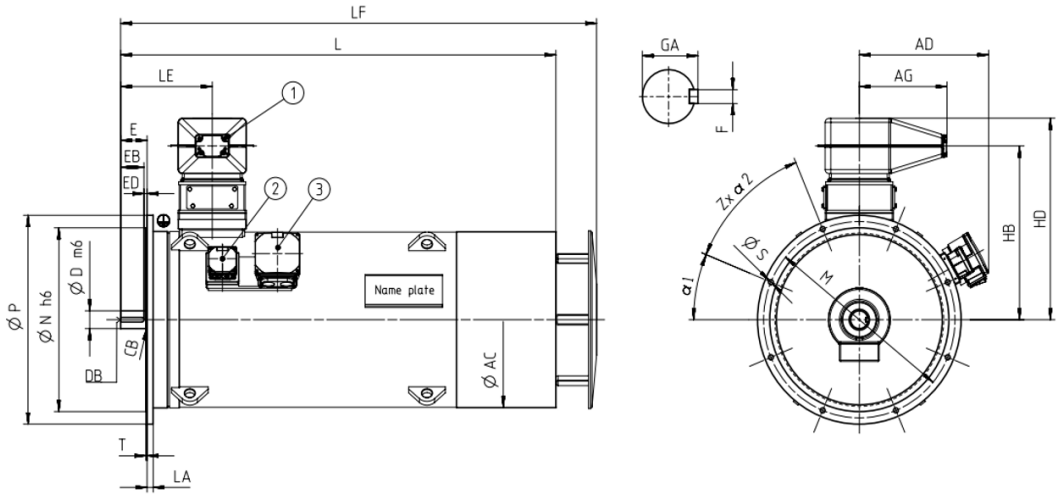

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 500-6AC04-4AG0	6600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AC04-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AC04-4CG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AC04-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AC04-4AG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AC04-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AC04-4AG0	7700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-6AC04-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AC04-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AC04-4CG0	10900	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole													
1NC1 404-8AC04-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-8AC04-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AC04-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AC04-4CG0	4700	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-8AC04-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AC04-4CG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AC04-4AG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AC04-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AC04-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AC04-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8

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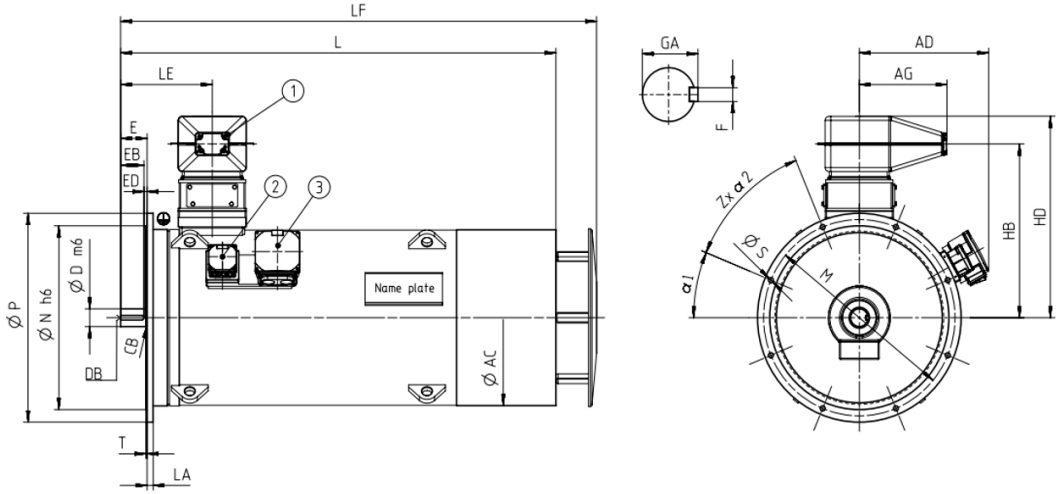

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 50 Hz V1 (IM 3011) - Dimension drawings														
1NC1 502-8AC04-4CG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AC04-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AC04-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AC04-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AC04-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AC04-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AC04-4CG0	9700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-8AC04-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AC04-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - const torque drive																						
630	560	**1NC1 402-2AC10-4AG0**	3584	96.2	0,93	590	1679	4,40	9.0	3600	250	1347	96.0	0,91	80	1059	94.5	0,87	35	948	92.0	0,85
630	560	**1NC1 402-2AC10-4CG0**	3584	96.1	0,93	590	1679	4,30	11.0	3600	250	1347	95.7	0,90	80	1059	94.2	0,86	35	948	91.7	0,85
710	630	**1NC1 404-2AC10-4AG0**	3584	96.4	0,93	660	1892	4,60	10.0	3600	285	1518	96.2	0,91	90	1193	94.9	0,87	40	1068	92.7	0,85
710	630	**1NC1 404-2AC10-4CG0**	3585	96.3	0,93	660	1891	4,50	12.0	3600	285	1518	96.0	0,90	90	1193	94.6	0,86	40	1068	92.5	0,85
800	710	**1NC1 406-2AC10-4AG0**	3585	96.5	0,94	740	2131	4,90	11.0	3600	320	1710	96.2	0,91	100	1344	94.8	0,87	45	1204	92.6	0,86
800	710	**1NC1 406-2AC10-4CG0**	3585	96.4	0,94	740	2131	4,80	13.0	3600	320	1709	95.9	0,91	100	1344	94.5	0,87	45	1203	92.3	0,86
800	700	**1NC1 452-2AC10-4CG0**	3585	96.5	0,94	740	2131	3,00	16.0	3600	320	1709	96.4	0,92	100	1343	95.2	0,90	45	1203	92.9	0,89
900	790	**1NC1 454-2AC10-4CG0**	3589	96.7	0,93	840	2395	3,90	18.0	3600	360	1922	96.6	0,91	115	1511	95.6	0,88	50	1353	93.8	0,86
1000	880	**1NC1 456-2AC10-4CG0**	3587	96.8	0,94	920	2662	3,30	20.0	3600	400	2135	96.6	0,93	125	1678	95.5	0,91	55	1503	93.5	0,90
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - const torque drive																						
710	630	**1NC1 404-4AC10-4AG0**	1791	96.3	0,90	690	3786	3,30	14.0	2600	285	3036	95.1	0,88	90	2387	93.3	0,86	40	2137	90.7	0,84
710	630	**1NC1 404-4AC10-4CG0**	1790	96.3	0,89	690	3788	2,90	19.0	2600	285	3040	95.4	0,88	90	2389	93.5	0,85	40	2140	90.6	0,84
800	710	**1NC1 406-4AC10-4AG0**	1792	96.4	0,90	770	4263	3,50	16.0	2600	320	3420	95.1	0,88	100	2688	93.3	0,84	45	2407	90.8	0,83
800	710	**1NC1 406-4AC10-4CG0**	1791	96.4	0,89	780	4265	3,10	21.0	2600	320	3422	95.4	0,87	100	2690	93.6	0,84	45	2409	90.8	0,83
900	790	**1NC1 452-4AC10-4AG0**	1793	96.6	0,89	880	4793	3,50	22.0	2400	360	3845	95.7	0,86	115	3023	94.2	0,82	50	2707	92.1	0,81
900	790	**1NC1 452-4AC10-4CG0**	1792	96.5	0,88	890	4796	3,20	29.0	2400	360	3846	95.8	0,86	115	3023	94.3	0,82	50	2707	92.0	0,80
1000	880	**1NC1 454-4AC10-4AG0**	1794	96.7	0,89	970	5323	4,20	25.0	2400	400	4274	95.5	0,84	125	3359	94.0	0,79	55	3008	92.1	0,77
1000	880	**1NC1 454-4AC10-4CG0**	1794	96.6	0,88	980	5323	3,80	32.0	2400	400	4274	95.7	0,84	125	3359	94.2	0,79	55	3008	92.1	0,77
1120	990	**1NC1 456-4AC10-4AG0**	1794	96.9	0,89	1080	5962	4,30	29.0	2400	450	4786	95.7	0,86	140	3762	94.4	0,81	60	3369	92.6	0,79
1120	990	**1NC1 456-4AC10-4CG0**	1794	96.8	0,89	1080	5962	3,80	37.0	2400	450	4786	95.9	0,85	140	3762	94.5	0,80	60	3369	92.6	0,78
1200	1060	**1NC1 502-4AC10-4CG0**	1792	96.1	0,86	1220	6395	2,50	35.0	2200	480	5129	95.6	0,85	150	4032	94.0	0,81	65	3610	91.5	0,80
1200	1060	**1NC1 502-4AC10-4AG0**	1792	96.0	0,87	1200	6395	3,10	26.0	2200	480	5131	95.4	0,85	150	4033	93.7	0,81	65	3611	91.1	0,79
1300	1150	**1NC1 504-4AC10-4CG0**	1792	96.2	0,88	1280	6928	2,60	40.0	2200	520	5559	95.6	0,86	165	4370	94.0	0,83	70	3913	91.5	0,82
1300	1150	**1NC1 504-4AC10-4AG0**	1792	96.1	0,89	1280	6928	3,20	30.0	2200	520	5558	95.3	0,87	165	4369	93.6	0,83	70	3912	91.2	0,82
1500	1320	**1NC1 506-4AC10-4AG0**	1793	96.4	0,88	1480	7989	3,70	35.0	2200	600	6408	95.4	0,85	190	5037	93.8	0,81	85	4511	91.7	0,79
1500	1320	**1NC1 506-4AC10-4CG0**	1794	96.5	0,87	1500	7984	2,90	45.0	2200	600	6407	95.7	0,85	190	5036	94.3	0,81	85	4510	92.2	0,80
1600	1410	**1NC1 562-4AC10-4CG0**	1793	96.2	0,88	1580	8521	2,60	68.0	2000	640	6837	95.9	0,86	200	5374	94.7	0,83	90	4812	92.9	0,82
1600	1410	**1NC1 562-4AC10-4AG0**	1794	96.1	0,88	1580	8517	3,00	50.0	2000	640	6837	95.8	0,87	200	5374	94.6	0,83	90	4812	92.8	0,82
1800	1590	**1NC1 564-4AC10-4AG0**	1794	96.2	0,88	1780	9581	3,20	55.0	2000	720	7687	95.9	0,86	225	6042	94.6	0,82	100	5411	92.7	0,81
1800	1590	**1NC1 564-4AC10-4CG0**	1794	96.4	0,88	1780	9581	2,80	75.0	2000	720	7688	96.0	0,86	225	6044	94.8	0,82	100	5412	92.8	0,81
2000	1760	**1NC1 566-4AC10-4AG0**	1793	96.4	0,89	1960	10652	3,00	62.0	2000	800	8540	96.1	0,88	250	6713	94.8	0,85	110	6011	92.6	0,84
2000	1760	**1NC1 566-4AC10-4CG0**	1793	96.5	0,89	1940	10652	2,60	83.0	2000	800	8546	96.1	0,88	250	6718	94.8	0,85	110	6016	92.7	0,84
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - const torque drive																						
560	490	**1NC1 404-6AC10-4AG0**	1195	96.2	0,88	550	4475	3,50	25.0	2400	225	3590	94.2	0,86	70	2822	91.7	0,82	30	2527	88.6	0,81

SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD const torque																						
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
560	490	**1NC1 404-6AC10-4CG0**	1194	96.3	0,88	550	4479	3,00	32.0	2400	225	3593	94.8	0,86	70	2824	92.4	0,83	30	2529	89.2	0,82
630	560	**1NC1 406-6AC10-4AG0**	1195	96.3	0,88	620	5034	3,70	28.0	2400	250	4036	94.0	0,85	80	3173	91.6	0,81	35	2841	88.9	0,79
630	560	**1NC1 406-6AC10-4CG0**	1195	96.4	0,88	620	5034	3,30	37.0	2400	250	4039	94.8	0,85	80	3175	92.6	0,82	35	2843	89.7	0,80
710	630	**1NC1 452-6AC10-4AG0**	1195	96.4	0,84	730	5674	3,40	33.0	2200	285	4553	94.7	0,81	90	3579	92.6	0,77	40	3205	89.6	0,75
710	630	**1NC1 452-6AC10-4CG0**	1194	96.6	0,84	730	5678	3,00	42.0	2200	285	4557	95.2	0,82	90	3582	93.1	0,78	40	3207	90.1	0,77
800	710	**1NC1 454-6AC10-4AG0**	1196	96.3	0,83	840	6387	4,10	38.0	2200	320	5125	94.4	0,77	100	4029	92.1	0,72	45	3608	89.3	0,70
800	710	**1NC1 454-6AC10-4CG0**	1195	96.6	0,84	820	6393	3,60	47.0	2200	320	5127	95.0	0,79	100	4031	93.0	0,74	45	3609	90.3	0,72
900	790	**1NC1 456-6AC10-4AG0**	1196	96.5	0,83	940	7186	4,20	44.0	2200	360	5765	94.6	0,78	115	4532	92.6	0,73	50	4058	90.0	0,70
900	790	**1NC1 456-6AC10-4CG0**	1195	96.8	0,84	930	7192	3,70	55.0	2200	360	5767	95.2	0,80	115	4534	93.4	0,75	50	4060	90.9	0,73
1000	880	**1NC1 500-6AC10-4CG0**	1195	96.4	0,86	1000	7991	2,30	57.0	2100	400	6413	95.7	0,84	125	5041	93.9	0,82	55	4514	91.2	0,80
1000	880	**1NC1 500-6AC10-4AG0**	1193	96.3	0,83	1040	8004	2,40	44.0	2100	400	6421	95.3	0,82	125	5047	93.1	0,80	55	4520	90.2	0,79
1120	990	**1NC1 502-6AC10-4CG0**	1195	96.6	0,86	1120	8950	2,40	65.0	2100	450	7181	95.8	0,84	140	5645	94.0	0,82	60	5055	91.6	0,80
1120	990	**1NC1 502-6AC10-4AG0**	1193	96.4	0,84	1160	8965	2,50	50.0	2100	450	7193	95.3	0,82	140	5654	93.2	0,80	60	5063	90.5	0,79
1250	1100	**1NC1 504-6AC10-4CG0**	1196	96.7	0,85	1280	9980	2,80	74.0	2100	500	8007	95.7	0,82	155	6294	94.0	0,79	70	5636	91.8	0,77
1250	1100	**1NC1 504-6AC10-4AG0**	1194	96.5	0,84	1300	9997	2,90	57.0	2100	500	8020	95.2	0,81	155	6304	93.2	0,77	70	5645	90.7	0,76
1400	1230	**1NC1 506-6AC10-4CG0**	1195	96.7	0,87	1400	11187	2,60	83.0	2100	560	8970	95.7	0,85	175	7051	94.0	0,82	80	6314	91.6	0,80
1400	1230	**1NC1 506-6AC10-4AG0**	1194	96.6	0,85	1420	11197	2,80	65.0	2100	560	8985	95.3	0,83	175	7063	93.2	0,81	75	6324	90.6	0,79
1400	1230	**1NC1 562-6AC10-4CG0**	1196	96.7	0,86	1400	11178	3,40	116.0	2000	560	8972	95.5	0,83	175	7053	93.7	0,79	80	6315	91.5	0,77
1600	1410	**1NC1 564-6AC10-4CG0**	1197	96.9	0,85	1620	12764	3,80	132.0	2000	640	10246	95.3	0,81	200	8054	93.7	0,77	90	7212	91.8	0,74
1800	1590	**1NC1 566-6AC10-4CG0**	1196	97.0	0,87	1780	14372	3,30	147.0	2000	720	11525	95.6	0,84	225	9060	93.9	0,81	100	8112	92.0	0,79
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - const torque drive																						
420	370	**1NC1 404-8AC10-4AG0**	895	95.9	0,81	450	4481	3,80	25.0	2400	170	3594	92.8	0,75	50	2825	89.4	0,69	25	2530	85.3	0,68
420	370	**1NC1 404-8AC10-4CG0**	894	95.9	0,80	460	4486	3,20	32.0	2400	170	3598	93.4	0,76	50	2829	90.0	0,70	25	2533	85.7	0,69
470	410	**1NC1 406-8AC10-4AG0**	895	96.0	0,82	500	5015	3,80	29.0	2400	190	4021	93.0	0,77	60	3161	89.8	0,71	25	2830	85.9	0,69
470	410	**1NC1 406-8AC10-4CG0**	895	96.0	0,81	510	5015	3,20	36.0	2400	190	4026	93.5	0,77	60	3165	90.3	0,71	25	2834	86.2	0,70
600	530	**1NC1 452-8AC10-4AG0**	894	95.8	0,79	660	6409	2,60	33.0	2200	240	5144	93.7	0,76	75	4043	90.5	0,73	35	3620	86.2	0,72
600	530	**1NC1 452-8AC10-4CG0**	892	95.8	0,78	670	6423	2,60	41.0	2200	240	5155	93.9	0,77	75	4052	90.6	0,74	35	3628	85.9	0,73
670	590	**1NC1 454-8AC10-4AG0**	894	96.0	0,80	730	7157	2,60	38.0	2200	270	5742	93.9	0,77	85	4514	90.8	0,74	35	4042	86.6	0,72
670	590	**1NC1 454-8AC10-4CG0**	893	96.0	0,79	740	7165	2,70	47.0	2200	270	5753	94.0	0,77	85	4522	90.8	0,74	35	4049	86.4	0,73
750	660	**1NC1 456-8AC10-4CG0**	895	96.2	0,77	850	8002	3,50	55.0	2200	300	6422	94.0	0,72	95	5048	91.1	0,67	40	4520	87.3	0,65
750	660	**1NC1 456-8AC10-4AG0**	896	96.0	0,76	860	7993	3,50	45.0	2200	300	6414	93.5	0,70	95	5042	90.5	0,65	40	4515	86.7	0,63
800	710	**1NC1 502-8AC10-4CG0**	895	95.7	0,84	830	8536	2,40	65.0	2100	320	6851	94.6	0,82	100	5385	92.3	0,78	45	4822	88.9	0,76
800	710	**1NC1 502-8AC10-4AG0**	894	95.9	0,80	870	8545	2,00	50.0	2100	320	6857	94.8	0,79	100	5390	92.4	0,76	45	4827	88.7	0,75
900	790	**1NC1 504-8AC10-4AG0**	894	96.0	0,81	970	9613	2,10	56.0	2100	360	7709	94.7	0,79	110	6060	92.3	0,75	50	5426	88.9	0,74
900	790	**1NC1 504-8AC10-4CG0**	895	95.8	0,84	940	9603	2,50	73.0	2100	360	7703	94.5	0,81	110	6055	92.1	0,77	50	5422	89.0	0,76

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SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - VSD const torque

Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1000	880	**1NC1 506-8AC10-4AG0**	894	96.0	0,82	1060	10682	2,10	64.0	2100	400	8566	94.7	0,80	125	6733	92.3	0,76	55	6029	88.9	0,75
1000	880	**1NC1 506-8AC10-4CG0**	895	95.9	0,85	1020	10670	2,50	83.0	2100	400	8559	94.5	0,82	125	6728	92.2	0,78	55	6025	89.0	0,77
1200	1060	**1NC1 562-8AC10-4CG0**	895	96.5	0,84	1240	12804	2,40	115.0	2000	480	10271	95.4	0,82	150	8074	93.0	0,80	65	7230	90.0	0,78
1300	1150	**1NC1 564-8AC10-4CG0**	895	96.6	0,84	1340	13870	2,40	132.0	2000	520	11122	95.3	0,83	160	8743	93.0	0,80	70	7829	90.2	0,78
1500	1320	**1NC1 566-8AC10-4CG0**	896	96.7	0,85	1520	15987	2,50	147.0	2000	600	12831	95.2	0,82	185	10086	93.0	0,79	85	9032	90.3	0,78

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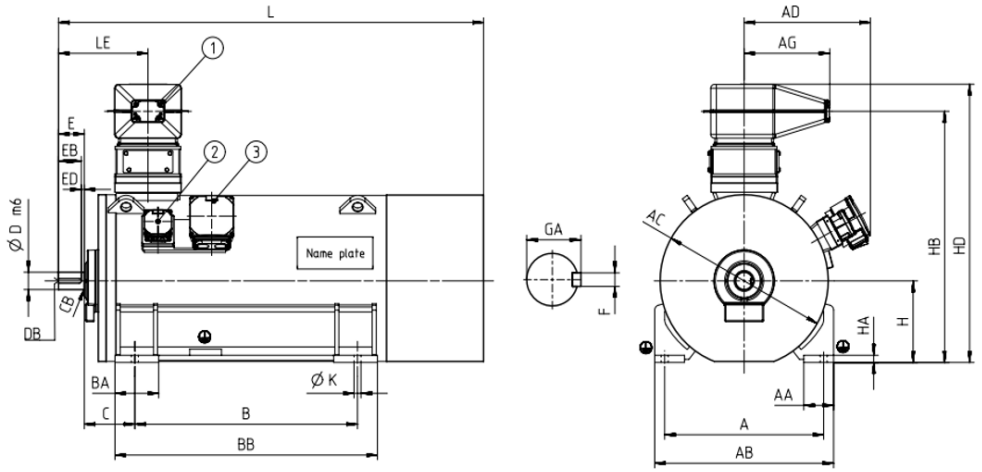

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 402-2AC10-4AG0	3405	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 402-2AC10-4CG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 404-2AC10-4AG0	3505	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 404-2AC10-4CG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 406-2AC10-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 406-2AC10-4CG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	85	130	400	1232	o.r.	1365	o.r.	2138	o.r.
1NC1 452-2AC10-4CG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AC10-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AC10-4CG0	5025	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
4-pole																			
1NC1 404-4AC10-4AG0	3605	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-4AC10-4CG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-4AC10-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-4AC10-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-4AC10-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-4AC10-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AC10-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AC10-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AC10-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AC10-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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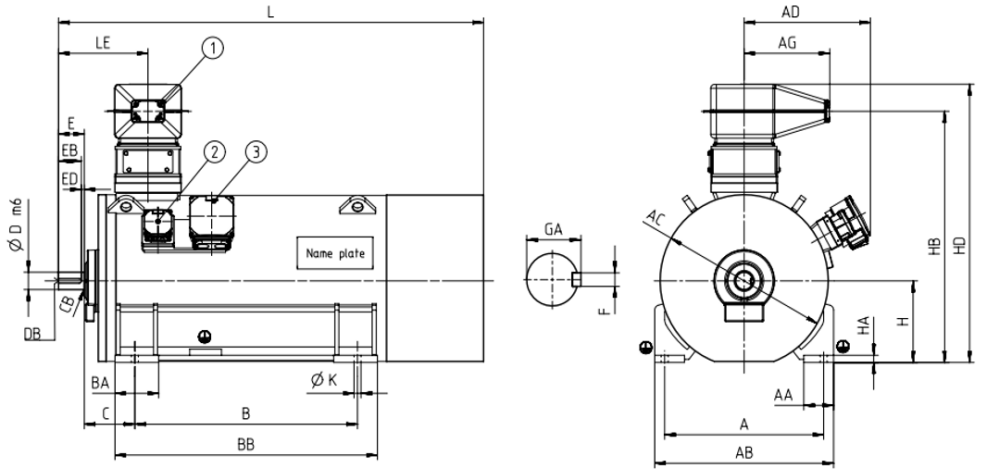

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 502-4AC10-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-4AC10-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AC10-4CG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AC10-4AG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AC10-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AC10-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-4AC10-4CG0	8095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AC10-4AG0	7795	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AC10-4AG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AC10-4CG0	8495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AC10-4AG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AC10-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
6-pole																			
1NC1 404-6AC10-4AG0	3805	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-6AC10-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-6AC10-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-6AC10-4CG0	4205	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-6AC10-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-6AC10-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AC10-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AC10-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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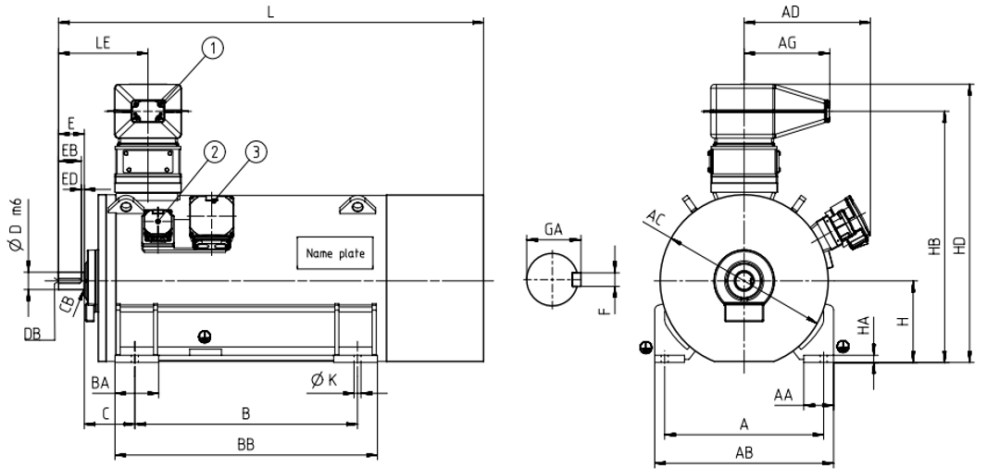

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 456-6AC10-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AC10-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 500-6AC10-4CG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 500-6AC10-4AG0	5575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AC10-4CG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AC10-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AC10-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AC10-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AC10-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AC10-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-6AC10-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-6AC10-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-6AC10-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
8-pole																			
1NC1 404-8AC10-4AG0	3705	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 404-8AC10-4CG0	3905	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-8AC10-4AG0	4005	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 406-8AC10-4CG0	4105	800	635	o.r.	o.r.	o.r.	431	o.r.	1120	254	120	165	400	1232	o.r.	1365	o.r.	2239	o.r.
1NC1 452-8AC10-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-8AC10-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AC10-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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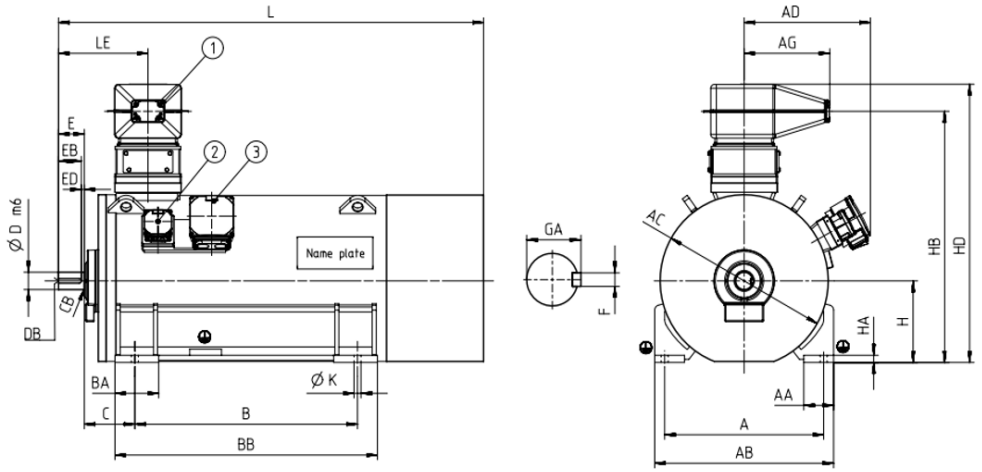

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 454-8AC10-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AC10-4CG0	5225	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AC10-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-8AC10-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-8AC10-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AC10-4AG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AC10-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AC10-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AC10-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-8AC10-4CG0	8395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-8AC10-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-8AC10-4CG0	9595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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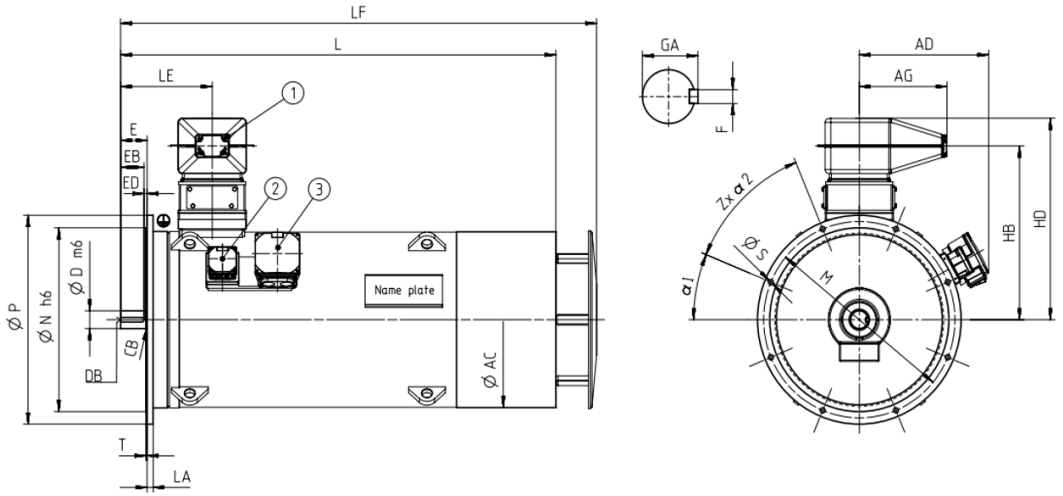

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NC1 404-4AC14-4AG0	4200	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-4AC14-4CG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AC14-4AG0	4400	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-4AC14-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-4AC14-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AC14-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AC14-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AC14-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AC14-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AC14-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AC14-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AC14-4AG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AC14-4CG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AC14-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AC14-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AC14-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-4AC14-4CG0	9400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AC14-4AG0	9100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AC14-4AG0	9400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AC14-4CG0	9700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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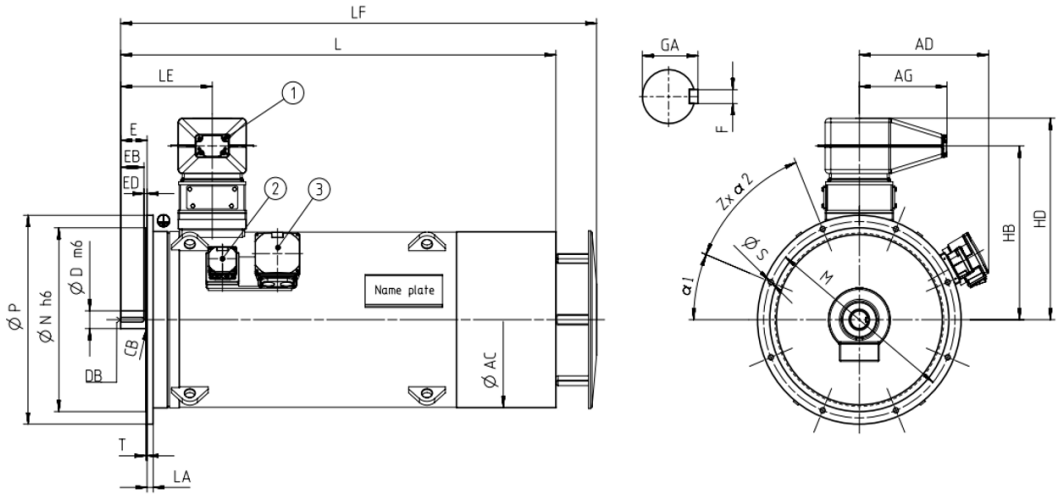

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NC1 566-4AC14-4AG0	9900	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AC14-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
6-pole													
1NC1 404-6AC14-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-6AC14-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AC14-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-6AC14-4CG0	4800	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-6AC14-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AC14-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AC14-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AC14-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AC14-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AC14-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AC14-4CG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 500-6AC14-4AG0	6600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AC14-4CG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AC14-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AC14-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AC14-4AG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AC14-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AC14-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16

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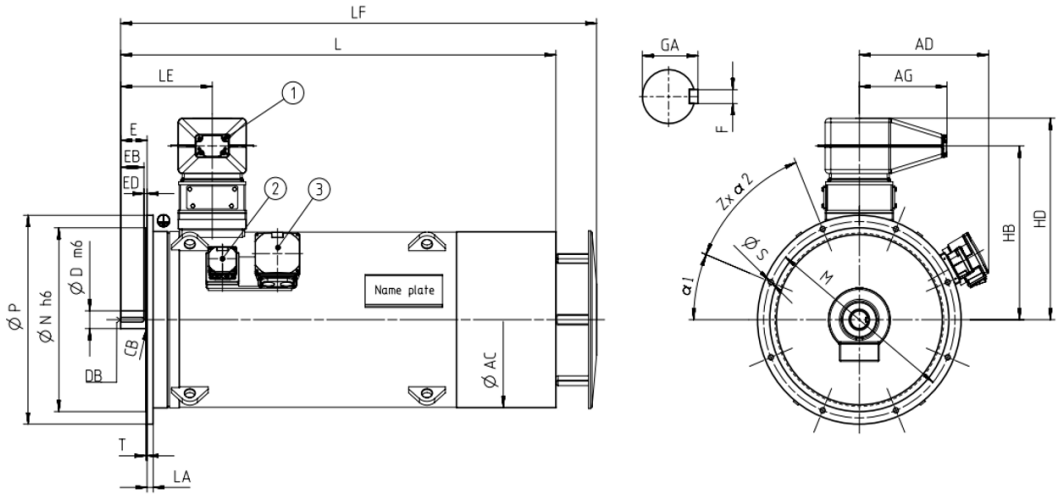

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings														
1NC1 562-6AC14-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AC14-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AC14-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole														
1NC1 404-8AC14-4AG0	4300	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 404-8AC14-4CG0	4500	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AC14-4AG0	4600	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 406-8AC14-4CG0	4700	o.r.	431	120	832	965	2239	o.r.	940	880	1000	o.r.	8
1NC1 452-8AC14-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AC14-4CG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AC14-4AG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AC14-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AC14-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AC14-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-8AC14-4CG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AC14-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AC14-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AC14-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AC14-4AG0	7700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AC14-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AC14-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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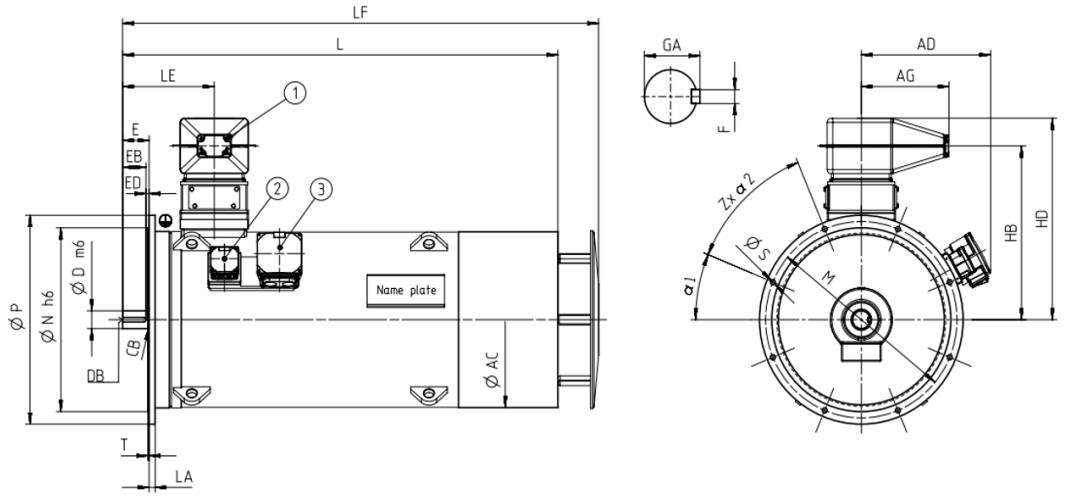

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 690 V / 60 Hz V1 (IM 3011) - Dimension drawings														
1NC1 564-8AC14-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AC14-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - const torque drive																						
	710	**1NC1 452-2AR40-4AG0**	2986	96.7	0,90	114	2271	2,80	11.0	3600	285	1822	96.7	0,89	90	1432	94.8	0,87	40	1282	92.5	0,82
	710	**1NC1 452-2AR40-4CG0**	2983	96.5	0,89	114	2273	2,50	15.0	3600	285	1824	96.4	0,89	90	1434	94.3	0,87	40	1284	91.8	0,83
	800	**1NC1 454-2AR40-4AG0**	2988	96.9	0,90	128	2557	3,50	13.0	3600	320	2050	96.9	0,89	100	1612	95.1	0,86	45	1443	92.7	0,80
	800	**1NC1 454-2AR40-4CG0**	2986	96.7	0,90	128	2558	3,00	17.0	3600	320	2053	96.7	0,89	100	1614	94.7	0,86	45	1445	92.1	0,80
	900	**1NC1 456-2AR40-4AG0**	2989	97.0	0,91	142	2875	3,60	14.0	3600	360	2306	97.0	0,90	115	1813	95.1	0,86	50	1623	92.7	0,81
	900	**1NC1 456-2AR40-4CG0**	2986	96.8	0,91	142	2878	3,00	19.0	3600	360	2309	96.8	0,90	115	1815	94.7	0,86	50	1625	92.2	0,81
	1000	**1NC1 502-2AR40-4CG0**	2989	96.5	0,89	162	3195	3,10	24.0	3000	400	2563	96.9	0,89	125	2015	95.4	0,85	55	1804	93.2	0,78
	1000	**1NC1 502-2AR40-4AG0**	2988	96.7	0,89	162	3196	3,40	19.0	3000	400	2563	97.0	0,89	125	2015	95.6	0,85	55	1804	93.6	0,79
	1120	**1NC1 504-2AR40-4AG0**	2989	96.8	0,90	178	3578	3,70	21.0	3000	450	2870	97.1	0,89	140	2256	95.7	0,86	60	2020	93.6	0,80
	1120	**1NC1 504-2AR40-4CG0**	2989	96.7	0,90	178	3578	3,30	27.0	3000	450	2870	97.0	0,89	140	2256	95.5	0,85	65	2020	93.3	0,78
	1250	**1NC1 506-2AR40-4AG0**	2989	97.0	0,91	196	3994	3,80	24.0	3000	500	3203	97.2	0,90	155	2518	95.7	0,87	70	2255	93.8	0,81
	1250	**1NC1 506-2AR40-4CG0**	2990	96.9	0,90	198	3992	3,30	31.0	3000	500	3203	97.2	0,90	155	2518	95.6	0,86	70	2255	93.5	0,80
	1400	**1NC1 564-2AR40-4CG0**	2992	96.9	0,91	220	4468	3,20	46.0	3000	560	3585	97.4	0,90	175	2818	96.2	0,87	80	2523	94.4	0,80
	1600	**1NC1 566-2AR40-4CG0**	2992	97.1	0,91	250	5107	3,20	51.0	3000	640	4096	97.5	0,90	200	3220	96.2	0,88	90	2883	94.5	0,82
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - const torque drive																						
	710	**1NC1 452-4AR40-4AG0**	1494	96.5	0,83	124	4538	3,60	18.0	2400	285	3642	96.4	0,80	90	2863	93.7	0,72	40	2563	89.5	0,59
	710	**1NC1 452-4AR40-4CG0**	1493	96.4	0,83	124	4541	3,00	23.0	2400	285	3643	96.5	0,80	90	2864	94.1	0,73	40	2565	90.6	0,62
	800	**1NC1 454-4AR40-4AG0**	1494	96.5	0,83	138	5113	4,00	20.0	2400	320	4102	96.4	0,80	100	3224	93.6	0,71	45	2887	89.0	0,57
	800	**1NC1 454-4AR40-4CG0**	1494	96.5	0,83	138	5113	3,30	26.0	2400	320	4103	96.5	0,80	100	3225	94.0	0,73	45	2888	90.4	0,61
	900	**1NC1 456-4AR40-4AG0**	1494	96.6	0,85	152	5753	3,80	23.0	2400	360	4615	96.6	0,82	115	3628	93.8	0,74	50	3249	89.8	0,62
	900	**1NC1 456-4AR40-4CG0**	1494	96.7	0,84	154	5753	3,20	30.0	2400	360	4616	96.6	0,82	115	3628	94.2	0,75	50	3249	90.9	0,65
	1000	**1NC1 502-4AR40-4CG0**	1493	96.3	0,86	168	6396	2,50	35.0	2200	400	5135	96.5	0,84	125	4036	94.6	0,80	55	3614	91.9	0,71
	1000	**1NC1 502-4AR40-4AG0**	1493	96.2	0,86	168	6396	3,20	26.0	2200	400	5132	96.5	0,85	125	4034	94.3	0,79	55	3613	90.9	0,68
	1120	**1NC1 504-4AR40-4CG0**	1493	96.5	0,86	188	7164	2,60	40.0	2200	450	5749	96.7	0,85	140	4519	94.7	0,81	60	4047	92.1	0,73
	1120	**1NC1 504-4AR40-4AG0**	1493	96.4	0,87	186	7164	3,20	30.0	2200	450	5748	96.6	0,86	140	4518	94.3	0,80	60	4046	91.2	0,70
	1250	**1NC1 506-4AR40-4CG0**	1494	96.6	0,87	205	7990	2,70	45.0	2200	500	6413	96.8	0,86	155	5041	95.0	0,81	70	4514	92.5	0,73
	1250	**1NC1 506-4AR40-4AG0**	1494	96.6	0,88	205	7990	3,40	35.0	2200	500	6413	96.7	0,86	155	5041	94.7	0,80	70	4514	91.7	0,70
	1400	**1NC1 560-4AR40-4CG0**	1493	96.6	0,85	235	8954	2,30	60.0	2000	560	7186	96.9	0,84	175	5649	95.2	0,80	80	5059	92.9	0,73
	1400	**1NC1 560-4AR40-4AG0**	1494	96.6	0,86	235	8948	2,70	44.0	2000	560	7182	96.9	0,85	175	5645	95.0	0,80	80	5055	92.3	0,70
	1600	**1NC1 562-4AR40-4CG0**	1494	96.8	0,86	265	10227	2,40	68.0	2000	640	8208	97.1	0,84	200	6452	95.6	0,80	90	5778	93.4	0,72
	1600	**1NC1 562-4AR40-4AG0**	1494	96.8	0,86	265	10227	2,80	50.0	2000	640	8205	97.1	0,85	200	6450	95.5	0,80	90	5775	92.9	0,69
	1800	**1NC1 564-4AR40-4AG0**	1495	96.9	0,87	295	11497	3,00	55.0	2000	720	9228	97.2	0,85	225	7254	95.4	0,80	100	6495	92.7	0,68
	1800	**1NC1 564-4AR40-4CG0**	1494	97.0	0,87	295	11505	2,60	75.0	2000	720	9229	97.2	0,85	225	7255	95.6	0,80	100	6497	93.3	0,72
	2000	**1NC1 566-4AR40-4AG0**	1495	97.1	0,88	325	12775	3,10	62.0	2000	800	10253	97.3	0,86	250	8059	95.3	0,81	110	7217	92.7	0,70

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SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	2000	**1NC1 566-4AR40-4CG0**	1495	97.1	0,87	330	12775	2,70	83.0	2000	800	10254	97.3	0,86	250	8061	95.5	0,81	110	7218	93.3	0,72
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - const torque drive																						
	560	**1NC1 452-6AR40-4AG0**	993	96.0	0,81	100	5385	2,00	26.0	2200	225	4324	95.5	0,80	70	3399	92.6	0,78	30	3044	88.6	0,70
	560	**1NC1 452-6AR40-4CG0**	993	96.2	0,84	96	5385	2,30	34.0	2200	225	4324	95.6	0,83	70	3399	92.6	0,79	30	3044	88.7	0,72
	630	**1NC1 454-6AR40-4AG0**	994	96.2	0,81	112	6052	2,50	30.0	2200	250	4855	95.8	0,79	80	3816	93.0	0,74	35	3417	88.5	0,63
	630	**1NC1 454-6AR40-4CG0**	995	96.3	0,83	110	6046	2,70	39.0	2200	250	4855	95.8	0,81	80	3816	93.0	0,76	35	3417	88.8	0,65
	710	**1NC1 456-6AR40-4AG0**	995	96.3	0,81	126	6814	2,70	35.0	2200	285	5471	96.0	0,78	90	4301	93.2	0,72	40	3851	88.8	0,60
	710	**1NC1 456-6AR40-4CG0**	995	96.4	0,83	124	6814	2,90	46.0	2200	285	5467	96.0	0,80	90	4298	93.2	0,74	40	3848	89.1	0,63
	800	**1NC1 500-6AR40-4CG0**	995	96.4	0,86	134	7678	2,20	57.0	2100	320	6164	96.2	0,85	100	4846	93.8	0,82	45	4339	90.6	0,75
	800	**1NC1 500-6AR40-4AG0**	993	96.2	0,83	140	7693	2,30	44.0	2100	320	6174	95.9	0,82	100	4853	93.1	0,80	45	4346	89.4	0,73
	900	**1NC1 502-6AR40-4AG0**	994	96.3	0,84	154	8646	2,70	50.0	2100	360	6940	96.0	0,83	110	5456	93.2	0,79	50	4885	89.0	0,70
	900	**1NC1 502-6AR40-4CG0**	996	96.4	0,86	150	8629	2,60	65.0	2100	360	6927	96.3	0,85	115	5445	93.9	0,81	50	4876	90.2	0,72
	1000	**1NC1 504-6AR40-4AG0**	994	96.4	0,85	170	9607	2,60	57.0	2100	400	7717	96.1	0,84	125	6066	93.6	0,82	55	5432	90.0	0,74
	1000	**1NC1 504-6AR40-4CG0**	995	96.6	0,87	166	9597	2,40	74.0	2100	400	7700	96.4	0,86	125	6052	94.2	0,83	55	5420	91.2	0,76
	1120	**1NC1 506-6AR40-4AG0**	994	96.6	0,85	190	10760	2,80	65.0	2100	450	8636	96.4	0,84	140	6789	93.8	0,80	60	6079	90.3	0,71
	1120	**1NC1 506-6AR40-4CG0**	996	96.8	0,86	186	10738	2,60	83.0	2100	450	8618	96.6	0,85	140	6774	94.5	0,82	60	6066	91.4	0,73
	1250	**1NC1 562-6AR40-4CG0**	996	96.9	0,86	210	11985	3,10	116.0	2000	500	9614	97.1	0,85	155	7557	95.0	0,80	70	6767	92.2	0,70
	1400	**1NC1 564-6AR40-4CG0**	996	97.0	0,87	230	13423	3,00	132.0	2000	560	10768	97.1	0,85	175	8465	95.0	0,82	80	7580	92.3	0,72
	1600	**1NC1 566-6AR40-4CG0**	996	97.2	0,87	265	15340	3,00	147.0	2000	640	12306	97.2	0,86	200	9673	95.2	0,82	90	8662	92.7	0,73
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - const torque drive																						
	470	**1NC1 452-8AR40-4AG0**	744	95.6	0,77	89	6032	2,10	26.0	2200	190	4847	94.9	0,77	60	3810	91.2	0,74	25	3412	85.8	0,65
	470	**1NC1 452-8AR40-4CG0**	744	95.7	0,80	85	6032	2,10	35.0	2200	190	4844	95.0	0,79	60	3807	91.2	0,75	25	3409	86.0	0,66
	530	**1NC1 454-8AR40-4AG0**	744	95.8	0,78	98	6803	2,20	30.0	2200	210	5460	95.2	0,77	65	4292	91.7	0,73	30	3843	86.4	0,63
	530	**1NC1 454-8AR40-4CG0**	745	95.9	0,80	96	6793	2,30	39.0	2200	210	5457	95.2	0,78	65	4290	91.7	0,73	30	3841	86.4	0,64
	600	**1NC1 456-8AR40-4AG0**	745	96.0	0,78	112	7691	2,50	35.0	2200	240	6178	95.5	0,76	75	4856	92.0	0,70	35	4349	86.6	0,59
	600	**1NC1 456-8AR40-4CG0**	745	96.0	0,79	110	7691	2,50	46.0	2200	240	6171	95.5	0,77	75	4851	92.0	0,71	35	4343	86.7	0,60
	630	**1NC1 502-8AR40-4CG0**	745	95.6	0,85	108	8075	2,20	65.0	2100	250	6486	95.0	0,83	80	5098	92.1	0,80	35	4565	88.0	0,73
	630	**1NC1 502-8AR40-4AG0**	744	95.6	0,80	114	8086	1,90	50.0	2100	250	6491	94.9	0,80	80	5103	91.9	0,78	35	4569	87.7	0,72
	710	**1NC1 504-8AR40-4AG0**	745	95.9	0,80	128	9101	2,30	56.0	2100	285	7301	95.4	0,79	90	5739	92.5	0,74	40	5139	88.1	0,64
	710	**1NC1 504-8AR40-4CG0**	746	95.8	0,84	122	9088	2,70	73.0	2100	285	7296	95.4	0,81	90	5735	92.5	0,75	40	5135	88.3	0,66
	800	**1NC1 506-8AR40-4AG0**	746	95.9	0,81	142	10241	2,50	64.0	2100	320	8227	95.3	0,78	100	6467	92.4	0,73	45	5791	87.6	0,63
	800	**1NC1 506-8AR40-4CG0**	746	95.8	0,83	140	10241	2,90	83.0	2100	320	8215	95.3	0,80	100	6458	92.4	0,74	45	5783	87.8	0,64
	900	**1NC1 562-8AR40-4CG0**	746	96.6	0,83	156	11521	2,70	115.0	2000	360	9243	96.5	0,82	110	7266	94.0	0,76	50	6506	90.6	0,66
	1000	**1NC1 564-8AR40-4CG0**	746	96.7	0,84	170	12801	2,70	132.0	2000	400	10269	96.6	0,82	125	8072	94.1	0,77	55	7228	90.9	0,67
	1120	**1NC1 566-8AR40-4CG0**	746	96.8	0,83	194	14337	2,90	147.0	2000	450	11496	96.7	0,82	140	9037	94.0	0,76	60	8092	90.7	0,65

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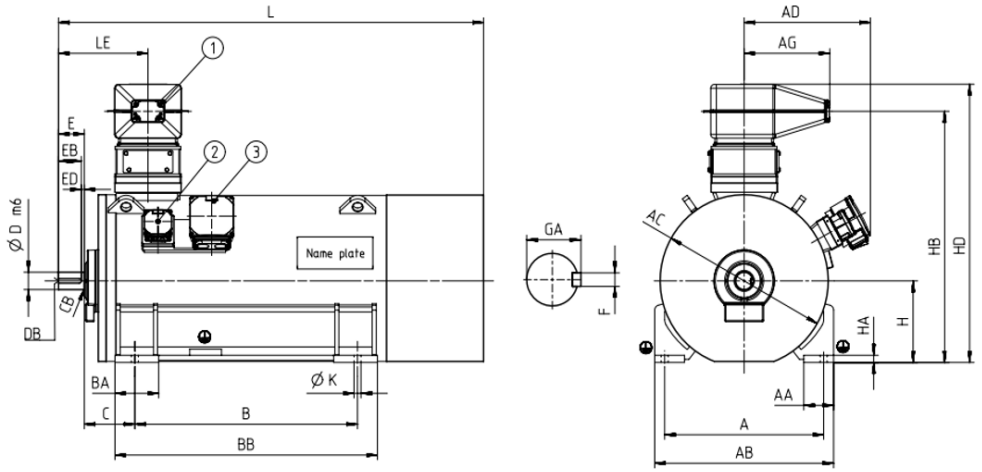

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 452-2AR40-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 452-2AR40-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AR40-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AR40-4CG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AR40-4AG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AR40-4CG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 502-2AR40-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 502-2AR40-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 504-2AR40-4AG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 504-2AR40-4CG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 506-2AR40-4AG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 506-2AR40-4CG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	110	165	500	1437	o.r.	1570	o.r.	2432	o.r.
1NC1 564-2AR40-4CG0	8095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	1557	o.r.	1690	o.r.	2598	o.r.
1NC1 566-2AR40-4CG0	8495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	120	165	560	1557	o.r.	1690	o.r.	2598	o.r.
4-pole																			
1NC1 452-4AR40-4AG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-4AR40-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AR40-4AG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AR40-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AR40-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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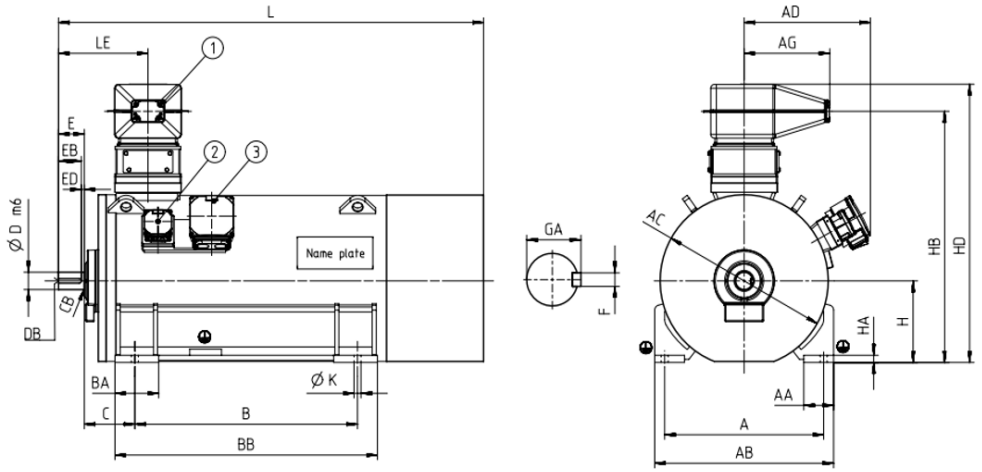

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 456-4AR40-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-4AR40-4CG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-4AR40-4AG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AR40-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AR40-4AG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AR40-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AR40-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 560-4AR40-4CG0	7695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 560-4AR40-4AG0	7395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AR40-4CG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AR40-4AG0	7895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AR40-4AG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AR40-4CG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AR40-4AG0	8695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AR40-4CG0	9095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
6-pole																			
1NC1 452-6AR40-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-6AR40-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AR40-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AR40-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AR40-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.

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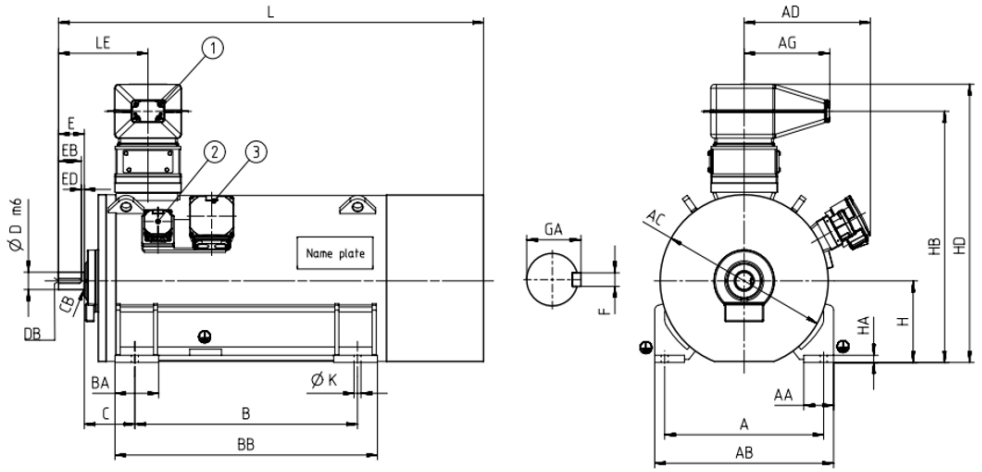

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 456-6AR40-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 500-6AR40-4CG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 500-6AR40-4AG0	5575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AR40-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AR40-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AR40-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AR40-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AR40-4AG0	6675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AR40-4CG0	6875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-6AR40-4CG0	8395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-6AR40-4CG0	8995	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-6AR40-4CG0	9495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
8-pole																			
1NC1 452-8AR40-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-8AR40-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AR40-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AR40-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AR40-4AG0	5025	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AR40-4CG0	5225	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-8AR40-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-8AR40-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.

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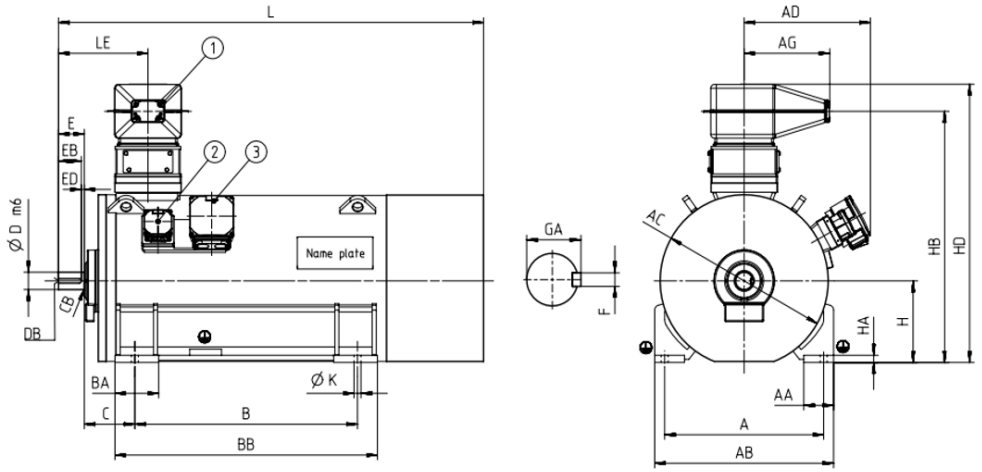

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 504-8AR40-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AR40-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AR40-4AG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AR40-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-8AR40-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-8AR40-4CG0	8895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-8AR40-4CG0	9495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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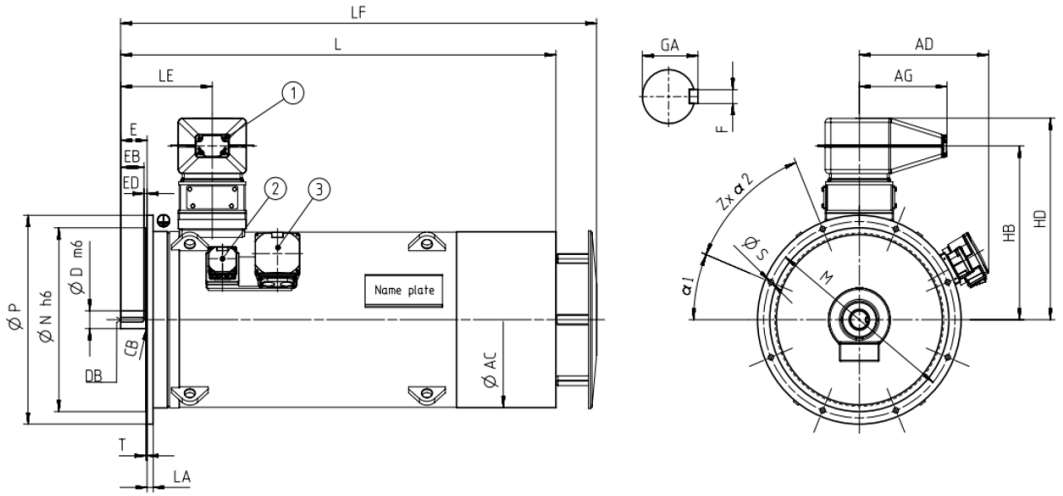

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NC1 452-4AR44-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AR44-4CG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AR44-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AR44-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AR44-4AG0	5800	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AR44-4CG0	6000	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AR44-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AR44-4AG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AR44-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AR44-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AR44-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AR44-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 560-4AR44-4CG0	9000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 560-4AR44-4AG0	8700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AR44-4CG0	9400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AR44-4AG0	9100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AR44-4AG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AR44-4CG0	9800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AR44-4AG0	10000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AR44-4CG0	10400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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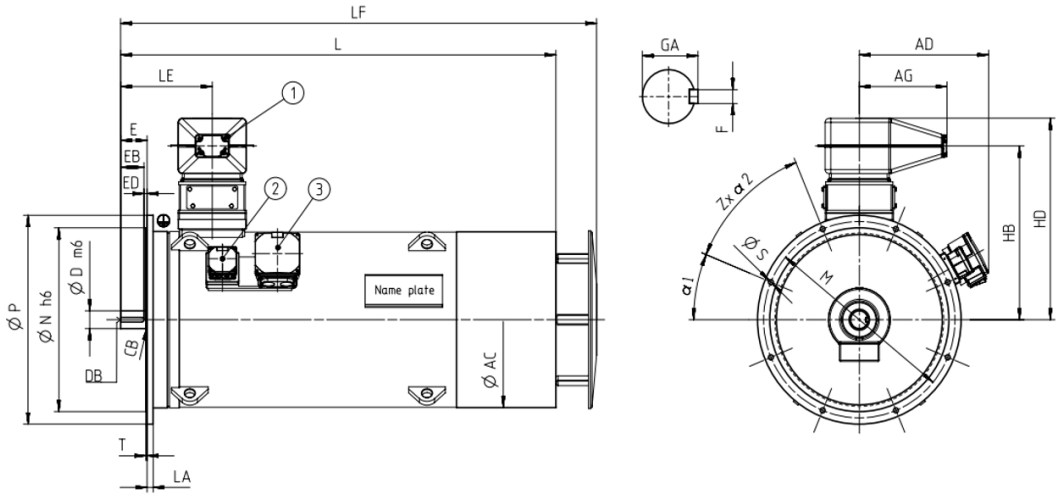

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
6-pole													
1NC1 452-6AR44-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AR44-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AR44-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AR44-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AR44-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AR44-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AR44-4CG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 500-6AR44-4AG0	6500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AR44-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AR44-4CG0	7000	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AR44-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AR44-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AR44-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AR44-4CG0	7900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-6AR44-4CG0	9700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AR44-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AR44-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole													
1NC1 452-8AR44-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AR44-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8

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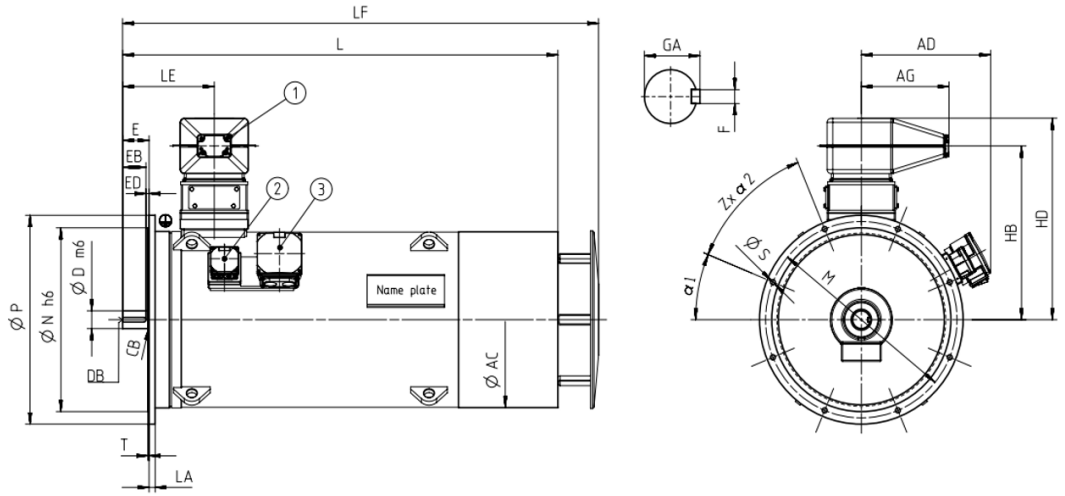

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 454-8AR44-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AR44-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AR44-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AR44-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-8AR44-4CG0	7000	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AR44-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AR44-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AR44-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AR44-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AR44-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AR44-4CG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-8AR44-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AR44-4CG0	10700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - const torque drive																						
	800	**1NC1 452-2AR30-4CG0**	3584	96.3	0,90	128	2132	2,60	15.0	3600	320	1710	96.6	0,89	100	1344	94.7	0,86	45	1204	92.6	0,80
	900	**1NC1 454-2AR30-4CG0**	3587	96.5	0,90	144	2396	3,10	17.0	3600	360	1922	96.8	0,88	115	1511	95.1	0,84	50	1353	92.9	0,76
	1000	**1NC1 456-2AR30-4CG0**	3588	96.6	0,90	160	2661	3,40	19.0	3600	400	2135	96.9	0,88	125	1678	95.1	0,84	55	1503	92.8	0,74
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - const torque drive																						
	800	**1NC1 452-4AR30-4AG0**	1794	96.3	0,81	142	4258	4,00	18.0	2400	320	3415	96.3	0,78	100	2684	93.5	0,69	45	2404	89.3	0,54
	800	**1NC1 452-4AR30-4CG0**	1794	96.3	0,82	140	4258	3,30	23.0	2400	320	3416	96.4	0,78	100	2685	94.1	0,70	45	2404	90.7	0,58
	900	**1NC1 454-4AR30-4AG0**	1795	96.4	0,81	160	4788	4,20	20.0	2400	360	3841	96.5	0,77	115	3020	93.8	0,68	50	2704	89.7	0,53
	900	**1NC1 454-4AR30-4CG0**	1794	96.4	0,82	158	4791	3,40	26.0	2400	360	3842	96.5	0,78	115	3020	94.3	0,70	50	2704	91.1	0,57
	1000	**1NC1 456-4AR30-4AG0**	1795	96.5	0,82	176	5320	4,30	23.0	2400	400	4267	96.5	0,78	125	3354	93.8	0,69	55	3004	89.8	0,54
	1000	**1NC1 456-4AR30-4CG0**	1795	96.5	0,82	176	5320	3,60	30.0	2400	400	4268	96.6	0,79	125	3355	94.3	0,70	55	3004	91.2	0,57
	1120	**1NC1 502-4AR30-4CG0**	1794	96.1	0,85	190	5962	2,60	35.0	2200	450	4785	96.6	0,83	140	3761	95.1	0,78	65	3368	92.8	0,69
	1120	**1NC1 502-4AR30-4AG0**	1794	96.0	0,86	188	5962	3,30	26.0	2200	450	4785	96.5	0,84	140	3761	94.7	0,77	65	3368	91.8	0,65
	1250	**1NC1 504-4AR30-4AG0**	1793	96.2	0,87	205	6657	3,30	30.0	2200	500	5340	96.6	0,85	155	4198	94.8	0,79	70	3759	92.1	0,69
	1250	**1NC1 504-4AR30-4CG0**	1794	96.3	0,86	210	6654	2,60	40.0	2200	500	5341	96.8	0,85	155	4198	95.1	0,80	70	3759	92.9	0,72
	1400	**1NC1 506-4AR30-4AG0**	1794	96.3	0,87	230	7452	3,80	35.0	2200	560	5977	96.7	0,85	175	4699	94.5	0,78	80	4207	91.6	0,66
	1400	**1NC1 506-4AR30-4CG0**	1795	96.5	0,86	235	7448	3,00	45.0	2200	560	5977	96.8	0,84	175	4699	95.0	0,79	80	4207	92.7	0,69
	1600	**1NC1 560-4AR30-4CG0**	1793	96.3	0,84	275	8521	2,10	60.0	2000	640	6836	96.9	0,84	200	5374	95.7	0,81	90	4812	93.9	0,74
	1600	**1NC1 560-4AR30-4AG0**	1794	96.1	0,86	270	8517	2,40	44.0	2000	640	6834	96.9	0,85	200	5372	95.6	0,80	90	4811	93.5	0,71
	1800	**1NC1 562-4AR30-4CG0**	1794	96.5	0,86	300	9581	2,40	68.0	2000	720	7686	97.1	0,85	225	6042	95.6	0,81	100	5410	93.7	0,73
	1800	**1NC1 562-4AR30-4AG0**	1794	96.4	0,87	300	9581	2,80	50.0	2000	720	7689	97.0	0,86	225	6044	95.5	0,81	100	5412	93.2	0,71
	2000	**1NC1 564-4AR30-4AG0**	1795	96.6	0,88	325	10640	2,90	55.0	2000	800	8542	97.1	0,86	250	6714	95.4	0,81	110	6012	93.1	0,71
	2000	**1NC1 564-4AR30-4CG0**	1794	96.7	0,87	330	10646	2,50	75.0	2000	800	8544	97.1	0,86	250	6716	95.6	0,81	110	6014	93.6	0,73
	2200	**1NC1 566-4AR30-4AG0**	1795	96.7	0,88	360	11704	3,10	62.0	2000	880	9392	97.1	0,86	275	7383	95.1	0,81	125	6611	92.7	0,71
	2200	**1NC1 566-4AR30-4CG0**	1795	96.9	0,88	360	11704	2,70	83.0	2000	880	9395	97.2	0,86	275	7385	95.4	0,81	125	6613	93.3	0,73
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - const torque drive																						
	630	**1NC1 452-6AR30-4AG0**	1194	96.1	0,79	116	5039	2,40	26.0	2200	250	4042	96.0	0,78	80	3177	93.5	0,73	35	2845	89.6	0,62
	630	**1NC1 452-6AR30-4CG0**	1194	96.3	0,82	110	5039	2,70	34.0	2200	250	4043	96.0	0,80	80	3178	93.5	0,75	35	2846	89.8	0,64
	710	**1NC1 454-6AR30-4AG0**	1195	96.3	0,80	128	5674	2,50	30.0	2200	285	4557	96.0	0,79	90	3582	93.5	0,73	40	3208	89.7	0,62
	710	**1NC1 454-6AR30-4CG0**	1195	96.4	0,83	124	5674	2,80	39.0	2200	285	4553	96.1	0,80	90	3579	93.5	0,75	40	3205	89.9	0,64
	800	**1NC1 456-6AR30-4AG0**	1195	96.4	0,81	142	6393	2,70	35.0	2200	320	5133	96.2	0,78	100	4035	93.7	0,73	45	3613	90.0	0,61
	800	**1NC1 456-6AR30-4CG0**	1195	96.5	0,83	138	6393	2,90	46.0	2200	320	5129	96.2	0,80	100	4032	93.6	0,74	45	3610	90.2	0,63
	900	**1NC1 500-6AR30-4CG0**	1195	96.4	0,86	150	7192	2,40	57.0	2100	360	5771	96.4	0,85	115	4537	94.4	0,82	50	4062	91.6	0,74
	900	**1NC1 500-6AR30-4AG0**	1194	96.3	0,83	156	7198	2,40	44.0	2100	360	5777	96.2	0,83	110	4541	93.8	0,80	50	4066	90.6	0,72
	1000	**1NC1 502-6AR30-4AG0**	1194	96.4	0,83	174	7998	2,50	50.0	2100	400	6417	96.3	0,83	125	5044	94.0	0,79	55	4517	90.8	0,71

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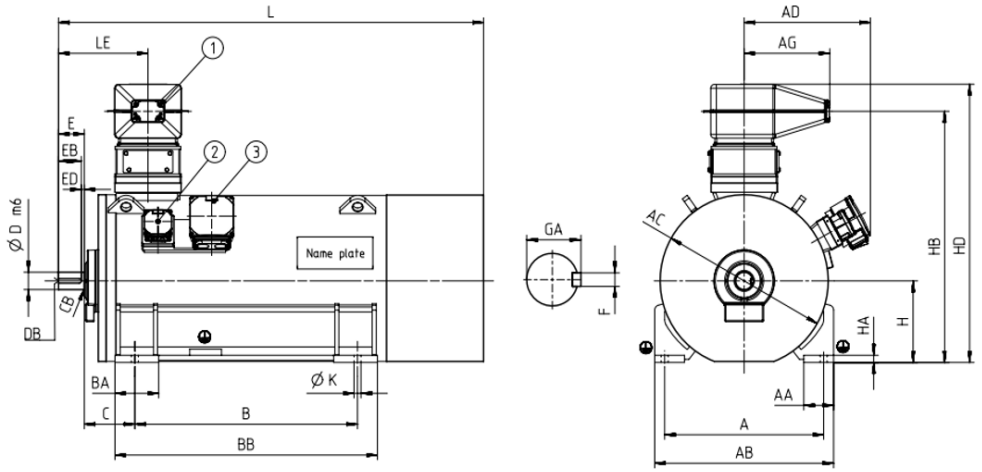
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	1000	**1NC1 502-6AR30-4CG0**	1196	96.5	0,86	168	7984	2,50	65.0	2100	400	6410	96.6	0,85	125	5038	94.6	0,81	55	4512	91.9	0,73
	1120	**1NC1 504-6AR30-4AG0**	1194	96.6	0,85	190	8957	2,70	57.0	2100	450	7189	96.4	0,84	140	5651	94.0	0,80	60	5060	90.9	0,71
	1120	**1NC1 504-6AR30-4CG0**	1196	96.7	0,86	186	8942	2,60	74.0	2100	450	7177	96.7	0,85	140	5642	94.7	0,82	65	5052	92.0	0,73
	1250	**1NC1 506-6AR30-4AG0**	1195	96.6	0,85	210	9989	2,90	65.0	2100	500	8017	96.5	0,84	155	6302	94.1	0,79	70	5643	90.8	0,69
	1250	**1NC1 506-6AR30-4CG0**	1196	96.7	0,86	210	9980	2,80	83.0	2100	500	8006	96.7	0,85	155	6293	94.7	0,81	70	5635	91.8	0,71
	1400	**1NC1 562-6AR30-4CG0**	1196	96.8	0,86	235	11178	3,00	116.0	2000	560	8967	97.1	0,85	175	7049	95.3	0,81	80	6312	93.0	0,72
	1600	**1NC1 564-6AR30-4CG0**	1196	97.0	0,87	265	12775	3,00	132.0	2000	640	10249	97.2	0,86	200	8056	95.3	0,82	90	7214	93.1	0,74
	1800	**1NC1 566-6AR30-4CG0**	1196	97.1	0,87	295	14372	3,00	147.0	2000	720	11530	97.3	0,86	225	9063	95.3	0,83	100	8116	93.1	0,74
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - const torque drive																						
	560	**1NC1 452-8AR30-4AG0**	894	95.8	0,78	104	5982	2,20	26.0	2200	225	4802	95.3	0,76	70	3775	92.1	0,72	30	3380	87.1	0,62
	560	**1NC1 452-8AR30-4CG0**	894	95.8	0,80	102	5982	2,30	35.0	2200	225	4800	95.3	0,78	70	3773	92.0	0,73	30	3378	87.1	0,63
	630	**1NC1 454-8AR30-4AG0**	894	96.0	0,78	116	6729	2,20	30.0	2200	250	5400	95.6	0,76	80	4245	92.5	0,72	35	3801	87.9	0,62
	630	**1NC1 454-8AR30-4CG0**	895	96.0	0,80	114	6722	2,30	39.0	2200	250	5397	95.6	0,78	80	4242	92.4	0,73	35	3799	87.9	0,62
	710	**1NC1 456-8AR30-4AG0**	895	96.1	0,78	132	7575	2,40	35.0	2200	285	6082	95.6	0,77	90	4781	92.5	0,72	40	4281	87.8	0,61
	710	**1NC1 456-8AR30-4CG0**	895	96.1	0,80	128	7575	2,40	46.0	2200	285	6079	95.6	0,78	90	4779	92.4	0,72	40	4279	87.9	0,61
	710	**1NC1 502-8AR30-4CG0**	895	95.7	0,85	122	7575	2,30	65.0	2100	285	6081	95.3	0,83	90	4780	92.8	0,79	40	4280	89.2	0,72
	710	**1NC1 502-8AR30-4AG0**	894	95.8	0,81	126	7584	1,90	50.0	2100	285	6085	95.3	0,80	90	4783	92.7	0,77	40	4283	89.1	0,70
	800	**1NC1 504-8AR30-4AG0**	895	95.9	0,81	142	8536	2,30	56.0	2100	320	6847	95.5	0,79	100	5383	92.9	0,74	45	4820	88.9	0,65
	800	**1NC1 504-8AR30-4CG0**	896	95.7	0,84	138	8526	2,70	73.0	2100	320	6843	95.4	0,81	100	5379	92.9	0,76	45	4816	89.0	0,66
	900	**1NC1 506-8AR30-4AG0**	895	96.0	0,81	160	9603	2,30	64.0	2100	360	7703	95.6	0,80	110	6055	93.0	0,75	50	5422	89.2	0,66
	900	**1NC1 506-8AR30-4CG0**	896	95.8	0,84	156	9592	2,70	83.0	2100	360	7697	95.5	0,82	115	6051	93.0	0,76	50	5418	89.3	0,67
	1000	**1NC1 562-8AR30-4CG0**	896	96.5	0,84	172	10658	2,60	115.0	2000	400	8553	96.6	0,83	125	6723	94.4	0,78	55	6020	91.6	0,69
	1120	**1NC1 564-8AR30-4CG0**	896	96.6	0,84	192	11937	2,70	132.0	2000	450	9577	96.7	0,83	140	7528	94.5	0,78	60	6741	91.6	0,69
	1250	**1NC1 566-8AR30-4CG0**	897	96.7	0,83	215	13307	2,90	147.0	2000	500	10682	96.7	0,81	155	8396	94.3	0,76	70	7519	91.3	0,65



Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 452-2AR30-4CG0	o.r.	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 454-2AR30-4CG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
1NC1 456-2AR30-4CG0	5025	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	95	130	450	1322	o.r.	1455	o.r.	2274	o.r.
4-pole																			
1NC1 452-4AR30-4AG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-4AR30-4CG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AR30-4AG0	4825	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-4AR30-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AR30-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-4AR30-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-4AR30-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-4AR30-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AR30-4AG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-4AR30-4CG0	6275	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AR30-4AG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-4AR30-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 560-4AR30-4CG0	7695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 560-4AR30-4AG0	7395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AR30-4CG0	8095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 562-4AR30-4AG0	7795	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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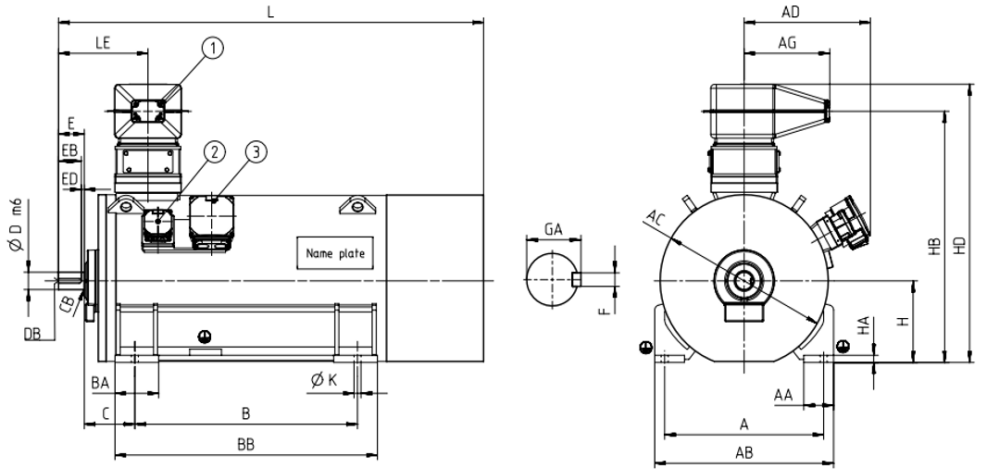

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 564-4AR30-4AG0	8195	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-4AR30-4CG0	8595	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AR30-4AG0	8695	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-4AR30-4CG0	9095	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
6-pole																			
1NC1 452-6AR30-4AG0	4525	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-6AR30-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AR30-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-6AR30-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AR30-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-6AR30-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 500-6AR30-4CG0	5675	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 500-6AR30-4AG0	5475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AR30-4AG0	5875	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-6AR30-4CG0	6075	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AR30-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-6AR30-4CG0	6475	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AR30-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-6AR30-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-6AR30-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-6AR30-4CG0	8895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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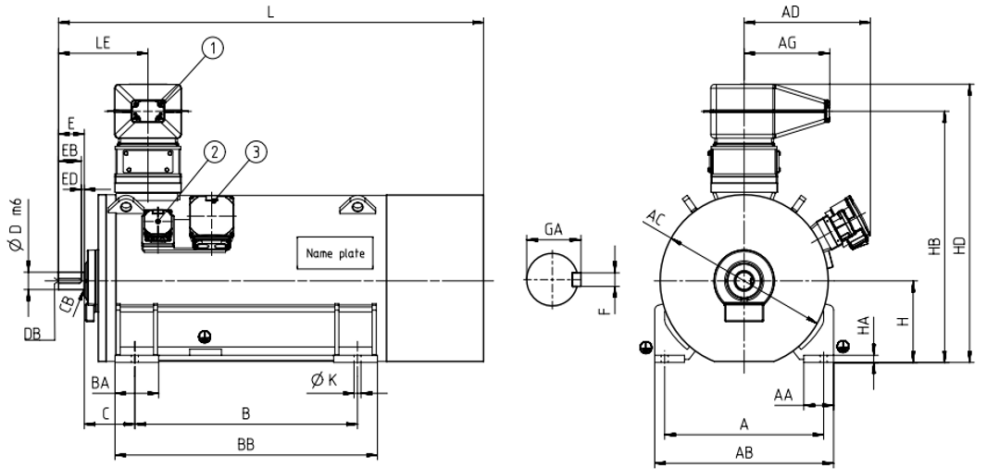

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 566-6AR30-4CG0	9495	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
8-pole																			
1NC1 452-8AR30-4AG0	4425	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 452-8AR30-4CG0	4625	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AR30-4AG0	4725	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 454-8AR30-4CG0	4925	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AR30-4AG0	5125	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 456-8AR30-4CG0	5325	900	688	o.r.	o.r.	o.r.	431	o.r.	1250	280	120	165	450	1322	o.r.	1455	o.r.	2419	o.r.
1NC1 502-8AR30-4CG0	5975	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 502-8AR30-4AG0	5775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AR30-4AG0	6175	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 504-8AR30-4CG0	6375	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AR30-4AG0	6575	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 506-8AR30-4CG0	6775	1000	693	o.r.	o.r.	o.r.	431	o.r.	1320	315	140	200	500	1437	o.r.	1570	o.r.	2599	o.r.
1NC1 562-8AR30-4CG0	8295	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 564-8AR30-4CG0	8895	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.
1NC1 566-8AR30-4CG0	9395	1120	715	o.r.	o.r.	o.r.	431	o.r.	1400	335	160	240	560	1557	o.r.	1690	o.r.	2753	o.r.

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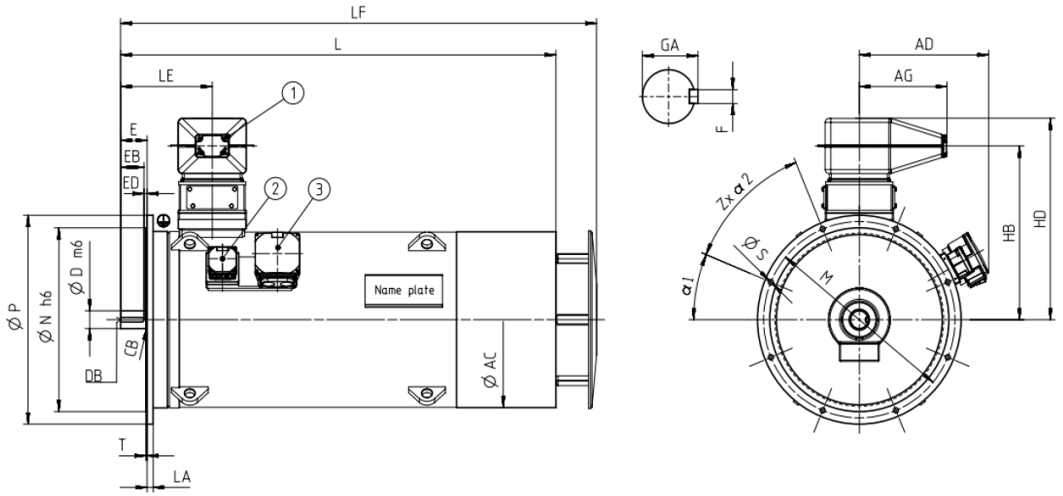

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings														
4-pole														
1NC1 452-4AR34-4AG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-4AR34-4CG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AR34-4AG0	5400	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-4AR34-4CG0	5600	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AR34-4AG0	5800	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-4AR34-4CG0	6000	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-4AR34-4CG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-4AR34-4AG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AR34-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-4AR34-4CG0	7300	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AR34-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-4AR34-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 560-4AR34-4CG0	9000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 560-4AR34-4AG0	8700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AR34-4CG0	9400	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 562-4AR34-4AG0	9100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AR34-4AG0	9500	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-4AR34-4CG0	9800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AR34-4AG0	10000	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-4AR34-4CG0	10300	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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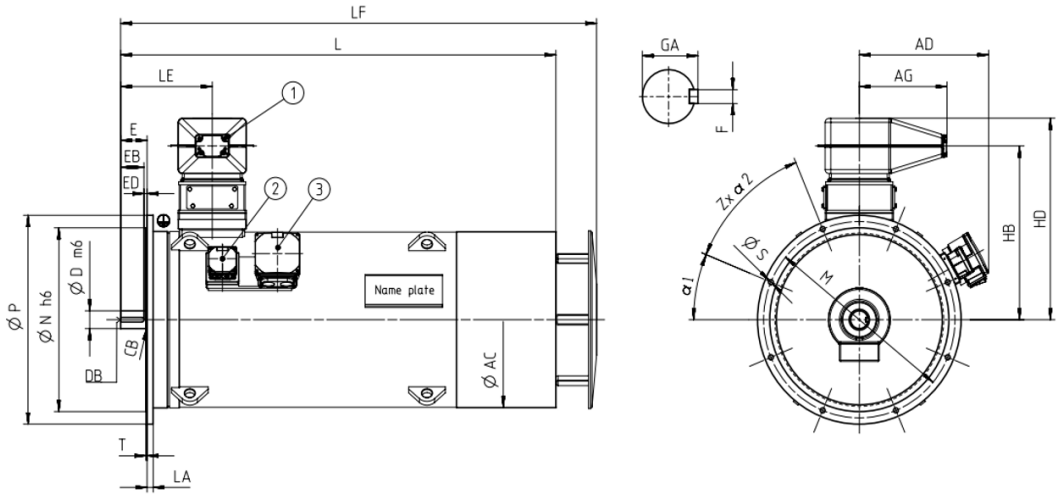

Motor type	Weight	Dimensions												
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
6-pole													
1NC1 452-6AR34-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-6AR34-4CG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AR34-4AG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-6AR34-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AR34-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-6AR34-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 500-6AR34-4CG0	6700	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 500-6AR34-4AG0	6500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AR34-4AG0	6900	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-6AR34-4CG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AR34-4AG0	7200	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-6AR34-4CG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AR34-4AG0	7600	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-6AR34-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-6AR34-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-6AR34-4CG0	10200	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-6AR34-4CG0	10800	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
8-pole													
1NC1 452-8AR34-4AG0	5100	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 452-8AR34-4CG0	5200	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8

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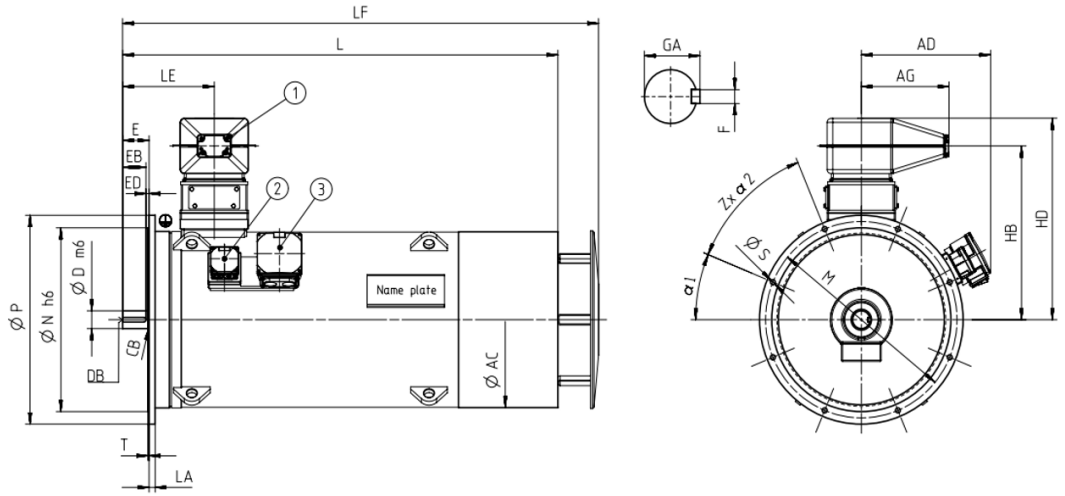

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC411 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NC1 454-8AR34-4AG0	5300	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 454-8AR34-4CG0	5500	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AR34-4AG0	5700	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 456-8AR34-4CG0	5900	o.r.	431	120	872	1005	2419	o.r.	1080	1000	1150	o.r.	8
1NC1 502-8AR34-4CG0	7000	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 502-8AR34-4AG0	6800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AR34-4AG0	7100	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 504-8AR34-4CG0	7400	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AR34-4AG0	7500	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 506-8AR34-4CG0	7800	o.r.	431	140	937	1070	2599	o.r.	1180	1120	1250	o.r.	16
1NC1 562-8AR34-4CG0	9600	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 564-8AR34-4CG0	10100	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16
1NC1 566-8AR34-4CG0	10700	o.r.	431	160	997	1130	2753	o.r.	1320	1250	1400	o.r.	16

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SIMOTICS HV C - 1NC1 IC416 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 690 V - const torque drive																						
600	530	**1NC1 402-2BC00-4AG0**	2980	96.5	0,94	550	1923	3,80	9.0	3600	285	1821	95.5	0,93	100	1634	92.5	0,91	45	1549	87.7	0,92
600	530	**1NC1 402-2BC00-4CG0**	2981	96.4	0,94	550	1922	3,70	11.0	3600	285	1820	95.4	0,93	100	1633	92.4	0,91	45	1548	87.5	0,91
660	580	**1NC1 404-2BC00-4AG0**	2983	96.7	0,94	610	2113	4,40	10.0	3600	310	2002	95.8	0,93	110	1797	93.3	0,91	50	1703	89.1	0,91
660	580	**1NC1 404-2BC00-4CG0**	2983	96.6	0,94	610	2113	4,30	12.0	3600	310	2001	95.7	0,92	110	1796	93.2	0,90	50	1702	89.1	0,90
750	660	**1NC1 406-2BC00-4AG0**	2984	96.9	0,94	690	2400	4,40	11.0	3600	355	2274	96.1	0,92	125	2041	93.9	0,90	60	1934	90.2	0,90
750	660	**1NC1 406-2BC00-4CG0**	2985	96.8	0,93	700	2399	4,30	13.0	3600	355	2273	96.0	0,92	125	2040	93.8	0,90	60	1933	90.2	0,90
800	710	**1NC1 452-2BC00-4AG0**	2985	97.1	0,93	740	2559	2,90	11.0	3600	375	2424	96.4	0,92	135	2175	94.0	0,91	60	2061	90.0	0,91
800	710	**1NC1 452-2BC00-4CG0**	2985	96.9	0,93	740	2559	2,80	15.0	3600	375	2424	96.2	0,92	135	2175	93.9	0,91	60	2061	90.0	0,91
900	790	**1NC1 454-2BC00-4AG0**	2985	97.1	0,94	830	2879	3,10	12.0	3600	425	2725	96.3	0,93	150	2446	93.8	0,92	70	2318	89.8	0,92
900	790	**1NC1 454-2BC00-4CG0**	2985	97.0	0,94	830	2879	3,00	17.0	3600	425	2725	96.2	0,93	150	2446	93.8	0,92	70	2318	89.8	0,92
1000	880	**1NC1 456-2BC00-4AG0**	2987	97.3	0,94	910	3197	3,80	14.0	3600	470	3029	96.6	0,93	170	2719	94.6	0,92	80	2577	91.3	0,92
1000	880	**1NC1 456-2BC00-4CG0**	2988	97.2	0,94	920	3196	3,60	19.0	3600	470	3028	96.5	0,93	170	2718	94.6	0,92	80	2576	91.4	0,92
1120	990	**1NC1 502-2BC00-4CG0**	2986	96.8	0,90	1080	3582	2,90	25.0	3000	530	3392	95.9	0,90	190	3044	93.8	0,89	85	2885	90.3	0,89
1120	990	**1NC1 502-2BC00-4AG0**	2985	96.9	0,89	1080	3583	2,90	19.0	3000	530	3392	96.1	0,89	185	3044	93.8	0,88	85	2885	90.1	0,89
1250	1100	**1NC1 504-2BC00-4CG0**	2989	97.0	0,90	1200	3994	3,60	28.0	3000	590	3781	96.3	0,90	210	3393	94.5	0,89	100	3216	91.7	0,89
1250	1100	**1NC1 504-2BC00-4AG0**	2988	97.1	0,90	1200	3995	3,60	21.0	3000	590	3781	96.4	0,89	210	3393	94.6	0,88	100	3216	91.6	0,88
1400	1230	**1NC1 506-2BC00-4CG0**	2988	97.1	0,91	1320	4474	3,40	31.0	3000	660	4236	96.2	0,91	235	3801	94.3	0,90	110	3603	91.3	0,90
1400	1230	**1NC1 506-2BC00-4AG0**	2987	97.2	0,91	1320	4476	3,60	24.0	3000	660	4237	96.4	0,91	235	3802	94.4	0,90	110	3604	91.1	0,90
1600	1410	**1NC1 564-2BC00-4CG0**	2992	97.1	0,91	1520	5107	3,40	46.0	3000	755	4835	96.4	0,90	270	4339	94.9	0,89	125	4112	92.5	0,89
1800	1590	**1NC1 566-2BC00-4CG0**	2991	97.2	0,92	1680	5747	3,30	51.0	3000	850	5440	96.4	0,91	305	4882	94.7	0,91	140	4628	92.1	0,91
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 690 V - const torque drive																						
710	630	**1NC1 404-4BC00-4AG0**	1490	96.5	0,90	680	4550	3,10	14.0	2600	335	4308	95.0	0,90	120	3866	91.9	0,89	55	3664	87.2	0,89
710	630	**1NC1 404-4BC00-4CG0**	1489	96.5	0,90	680	4553	2,80	19.0	2600	335	4312	95.0	0,89	120	3870	91.8	0,89	55	3668	86.6	0,89
800	710	**1NC1 406-4BC00-4AG0**	1490	96.6	0,91	760	5127	3,10	16.0	2600	375	4854	95.0	0,90	135	4356	92.0	0,90	60	4129	87.4	0,90
800	710	**1NC1 406-4BC00-4CG0**	1489	96.5	0,90	770	5131	2,80	21.0	2600	375	4859	95.1	0,90	135	4361	91.9	0,89	60	4133	86.9	0,90
900	790	**1NC1 452-4BC00-4AG0**	1492	96.8	0,89	870	5760	3,10	22.0	2400	425	5456	95.6	0,88	150	4897	92.9	0,87	70	4641	88.8	0,87
900	790	**1NC1 452-4BC00-4CG0**	1491	96.8	0,88	880	5764	2,80	29.0	2400	425	5457	95.6	0,87	150	4898	92.9	0,86	70	4642	88.6	0,86
1000	880	**1NC1 454-4BC00-4AG0**	1492	96.9	0,90	960	6400	3,30	25.0	2400	470	6060	95.7	0,88	165	5439	93.2	0,87	80	5155	89.3	0,87
1000	880	**1NC1 454-4BC00-4CG0**	1492	96.9	0,89	970	6400	3,00	32.0	2400	470	6060	95.8	0,87	165	5439	93.2	0,86	80	5155	89.3	0,86
1120	990	**1NC1 456-4BC00-4CG0**	1492	97.0	0,89	1080	7168	3,10	37.0	2400	530	6785	95.9	0,88	185	6089	93.5	0,87	85	5771	89.8	0,87
1120	990	**1NC1 456-4BC00-4AG0**	1492	97.0	0,90	1080	7168	3,50	29.0	2400	530	6786	95.8	0,89	185	6090	93.4	0,87	85	5772	89.8	0,87
1140	1010	**1NC1 502-4BC00-4CG0**	1492	96.5	0,87	1140	7296	2,60	35.0	2200	540	6911	95.4	0,86	190	6202	92.5	0,85	90	5878	87.9	0,86
1120	990	**1NC1 502-4BC00-4AG0**	1492	96.4	0,88	1100	7168	3,30	26.0	2200	530	6789	95.2	0,86	185	6093	92.3	0,85	85	5775	87.7	0,85
1250	1100	**1NC1 504-4BC00-4CG0**	1493	96.7	0,86	1260	7995	2,60	40.0	2200	590	7575	95.7	0,86	210	6798	93.3	0,85	100	6444	89.4	0,85

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SIMOTICS HV C - 1NC1 IC416 690 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1250	1100	**1NC1 504-4BC00-4AG0**	1492	96.7	0,87	1240	8000	3,30	30.0	2200	590	7575	95.5	0,86	210	6798	93.0	0,85	95	6444	89.1	0,85
1300	1150	**1NC1 506-4BC00-4CG0**	1493	96.8	0,88	1280	8315	2,80	45.0	2200	615	7873	95.7	0,87	220	7066	93.3	0,86	100	6697	89.6	0,86
1300	1150	**1NC1 506-4BC00-4AG0**	1493	96.7	0,89	1260	8315	3,60	35.0	2200	615	7874	95.4	0,88	220	7067	93.0	0,86	100	6698	89.2	0,86
1400	1230	**1NC1 562-4BC00-4CG0**	1493	97.0	0,88	1380	8954	2,70	68.0	2000	660	8482	95.9	0,87	235	7612	93.4	0,86	110	7215	89.5	0,87
1400	1230	**1NC1 562-4BC00-4AG0**	1494	96.9	0,88	1380	8948	3,10	50.0	2000	660	8479	95.9	0,87	235	7609	93.4	0,86	110	7212	89.6	0,87
1600	1410	**1NC1 564-4BC00-4AG0**	1494	97.1	0,89	1540	10227	3,20	55.0	2000	755	9686	96.1	0,87	270	8692	94.1	0,86	125	8239	91.0	0,86
1600	1410	**1NC1 564-4BC00-4CG0**	1494	97.3	0,88	1560	10227	2,80	75.0	2000	755	9688	96.2	0,87	270	8695	94.2	0,86	125	8241	91.0	0,86
1710	1510	**1NC1 566-4BC00-4AG0**	1494	97.2	0,90	1640	10930	3,10	62.0	2000	805	10355	96.1	0,89	285	9293	94.0	0,87	135	8808	90.7	0,88
1700	1500	**1NC1 566-4BC00-4CG0**	1494	97.3	0,89	1640	10866	2,80	83.0	2000	800	10294	96.2	0,88	285	9238	94.0	0,87	135	8756	90.8	0,87
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 690 V - const torque drive																						
560	490	**1NC1 404-6BC00-4AG0**	994	96.1	0,88	550	5380	3,00	25.0	2400	265	5095	94.2	0,88	95	4572	90.6	0,87	45	4334	85.2	0,88
560	490	**1NC1 404-6BC00-4CG0**	993	96.2	0,88	550	5385	2,60	32.0	2400	265	5103	94.5	0,87	95	4579	90.6	0,87	45	4340	84.8	0,88
630	560	**1NC1 406-6BC00-4AG0**	994	96.2	0,89	620	6052	3,00	28.0	2400	295	5732	94.4	0,88	105	5144	90.9	0,88	50	4876	85.6	0,88
630	560	**1NC1 406-6BC00-4CG0**	993	96.3	0,88	620	6058	2,60	37.0	2400	295	5739	94.6	0,88	105	5151	90.9	0,87	50	4882	85.3	0,88
710	630	**1NC1 452-6BC00-4AG0**	994	96.3	0,84	730	6821	3,20	33.0	2200	335	6459	94.5	0,83	120	5796	91.2	0,83	55	5494	86.2	0,83
710	630	**1NC1 452-6BC00-4CG0**	993	96.4	0,84	730	6828	2,80	42.0	2200	335	6466	94.8	0,83	120	5803	91.4	0,83	55	5500	86.2	0,84
800	710	**1NC1 454-6BC00-4AG0**	994	96.4	0,85	820	7686	3,30	38.0	2200	375	7275	94.7	0,83	135	6529	91.6	0,83	60	6188	86.9	0,83
850	750	**1NC1 454-6BC00-4CG0**	993	96.5	0,85	870	8174	2,70	47.0	2200	400	7741	94.9	0,84	140	6947	91.6	0,84	65	6584	86.5	0,85
900	790	**1NC1 456-6BC00-4AG0**	995	96.5	0,84	930	8638	3,90	44.0	2200	425	8175	94.7	0,82	150	7337	91.8	0,80	70	6954	87.5	0,81
900	790	**1NC1 456-6BC00-4CG0**	995	96.7	0,85	920	8638	3,40	55.0	2200	425	8179	95.1	0,83	150	7340	92.3	0,82	70	6957	88.0	0,82
1000	880	**1NC1 500-6BC00-4CG0**	993	96.5	0,86	1000	9617	1,90	57.0	2100	470	9105	95.2	0,86	165	8171	91.7	0,87	75	7744	86.5	0,88
1000	880	**1NC1 500-6BC00-4AG0**	991	96.2	0,83	1040	9636	2,00	44.0	2100	470	9128	94.6	0,84	165	8192	90.6	0,85	75	7764	84.5	0,86
1120	990	**1NC1 502-6BC00-4AG0**	992	96.5	0,83	1180	10781	2,20	50.0	2100	525	10209	95.1	0,83	185	9162	91.7	0,84	85	8684	86.5	0,85
1120	990	**1NC1 502-6BC00-4CG0**	994	96.8	0,86	1120	10760	2,10	65.0	2100	530	10191	95.6	0,86	185	9146	92.8	0,86	85	8668	88.3	0,87
1250	1100	**1NC1 504-6BC00-4CG0**	994	96.7	0,87	1240	12009	2,00	74.0	2100	590	11379	95.5	0,87	210	10212	92.4	0,88	95	9679	87.6	0,88
1250	1100	**1NC1 504-6BC00-4AG0**	992	96.5	0,85	1280	12033	2,10	57.0	2100	590	11402	95.0	0,86	205	10233	91.3	0,86	95	9699	85.8	0,87
1400	1230	**1NC1 506-6BC00-4CG0**	994	96.9	0,87	1380	13450	2,10	83.0	2100	660	12733	95.6	0,87	235	11427	92.8	0,88	110	10830	88.6	0,88
1400	1230	**1NC1 506-6BC00-4AG0**	993	96.7	0,86	1400	13463	2,30	65.0	2100	660	12759	95.1	0,86	235	11451	91.8	0,86	105	10853	87.0	0,87
1550	1370	**1NC1 562-6BC00-4CG0**	994	97.0	0,87	1540	14891	2,30	116.0	2000	730	14099	95.9	0,88	260	12653	93.0	0,89	120	11993	88.6	0,89
1700	1500	**1NC1 564-6BC00-4CG0**	995	97.2	0,87	1680	16315	2,70	132.0	2000	800	15445	96.0	0,87	285	13861	93.6	0,88	135	13137	90.0	0,88
1950	1720	**1NC1 566-6BC00-4CG0**	996	97.3	0,86	1940	18696	3,20	147.0	2000	920	17699	96.1	0,86	325	15884	94.1	0,86	155	15055	91.0	0,85
8-pole: n_{sync} = 750 rpm at - 50 Hz - 690 V - const torque drive																						
410	360	**1NC1 404-8BC00-4AG0**	744	95.8	0,83	430	5262	3,10	25.0	2400	195	4983	93.1	0,82	70	4472	88.3	0,80	30	4239	81.6	0,81
410	360	**1NC1 404-8BC00-4CG0**	743	95.7	0,82	435	5269	2,70	32.0	2400	195	4994	93.1	0,81	70	4482	88.0	0,80	30	4248	80.6	0,81
480	420	**1NC1 406-8BC00-4AG0**	744	95.8	0,85	495	6161	2,80	29.0	2400	225	5841	93.1	0,84	80	5242	88.2	0,83	35	4968	81.0	0,83

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SIMOTICS HV C - 1NC1 IC416 690 V / 50 Hz B3 (IM 1001) - VSD const torque

Rated power IEC		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
480	420	**1NC1 406-8BC00-4CG0**	742	95.6	0,83	510	6177	2,40	36.0	2400	225	5852	93.0	0,82	80	5252	87.7	0,81	35	4978	79.9	0,82
560	490	**1NC1 452-8BC00-4AG0**	744	95.9	0,78	630	7188	2,60	33.0	2200	265	6813	93.4	0,77	95	6114	88.8	0,78	45	5795	82.1	0,79
560	490	**1NC1 452-8BC00-4CG0**	742	95.8	0,78	630	7207	2,60	41.0	2200	265	6829	93.4	0,77	90	6128	88.4	0,78	40	5808	81.0	0,79
660	580	**1NC1 454-8BC00-4AG0**	744	95.9	0,80	720	8471	2,60	38.0	2200	310	8029	93.5	0,79	110	7206	88.9	0,79	50	6830	82.2	0,80
660	580	**1NC1 454-8BC00-4CG0**	742	95.8	0,79	730	8494	2,60	47.0	2200	310	8045	93.5	0,79	110	7220	88.6	0,79	50	6843	81.3	0,80
720	640	**1NC1 456-8BC00-4AG0**	745	96.0	0,80	780	9229	2,90	45.0	2200	340	8746	93.6	0,78	120	7849	89.3	0,78	55	7439	83.0	0,79
720	640	**1NC1 456-8BC00-4CG0**	744	96.0	0,80	780	9241	2,90	55.0	2200	340	8759	93.7	0,79	120	7861	89.2	0,79	55	7450	82.6	0,80
800	710	**1NC1 502-8BC00-4CG0**	744	95.8	0,85	820	10268	2,00	65.0	2100	375	9732	94.3	0,84	135	8734	90.5	0,83	60	8278	84.4	0,84
800	710	**1NC1 502-8BC00-4AG0**	743	95.7	0,80	870	10282	1,70	50.0	2100	375	9743	94.1	0,80	130	8744	89.8	0,80	60	8288	83.0	0,81
900	790	**1NC1 504-8BC00-4AG0**	744	96.0	0,80	980	11552	1,90	56.0	2100	425	10948	94.4	0,80	150	9825	90.7	0,80	70	9312	84.9	0,80
900	790	**1NC1 504-8BC00-4CG0**	744	96.0	0,85	920	11552	2,20	73.0	2100	425	10934	94.5	0,83	150	9812	91.2	0,83	70	9300	85.9	0,83
1000	880	**1NC1 506-8BC00-4AG0**	744	96.1	0,81	1080	12835	2,10	64.0	2100	470	12152	94.5	0,80	165	10905	91.0	0,80	75	10336	85.6	0,80
1000	880	**1NC1 506-8BC00-4CG0**	745	96.0	0,85	1020	12818	2,40	83.0	2100	470	12140	94.5	0,83	165	10895	91.3	0,82	75	10327	86.4	0,82
1200	1060	**1NC1 562-8BC00-4CG0**	744	96.6	0,85	1220	15402	2,10	115.0	2000	565	14581	95.2	0,85	200	13086	92.0	0,85	90	12402	87.2	0,85
1350	1190	**1NC1 564-8BC00-4CG0**	745	96.7	0,85	1380	17304	2,20	132.0	2000	635	16391	95.3	0,85	225	14710	92.2	0,85	105	13942	87.5	0,85
1500	1320	**1NC1 566-8BC00-4CG0**	745	96.8	0,85	1520	19227	2,10	147.0	2000	705	18224	95.4	0,85	250	16355	92.2	0,86	115	15501	87.4	0,86

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 402-2BC00-4AG0	3505	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 402-2BC00-4CG0	3605	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-2BC00-4AG0	3705	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-2BC00-4CG0	3705	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-2BC00-4AG0	3805	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-2BC00-4CG0	3905	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-2BC00-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-2BC00-4CG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-2BC00-4AG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-2BC00-4CG0	5025	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-2BC00-4AG0	5125	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-2BC00-4CG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-2BC00-4CG0	6075	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-2BC00-4AG0	5875	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-2BC00-4CG0	6375	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-2BC00-4AG0	6175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-2BC00-4CG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-2BC00-4AG0	6575	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-2BC00-4CG0	8195	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-2BC00-4CG0	8595	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
4-pole																			
1NC1 404-4BC00-4AG0	3705	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-4BC00-4CG0	3805	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-4BC00-4AG0	3905	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-4BC00-4CG0	4005	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BC00-4AG0	4725	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BC00-4CG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BC00-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BC00-4CG0	5125	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BC00-4CG0	5525	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BC00-4AG0	5325	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BC00-4CG0	6075	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BC00-4AG0	5875	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BC00-4CG0	6575	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BC00-4AG0	6375	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BC00-4CG0	6975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 506-4BC00-4AG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BC00-4CG0	8295	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BC00-4AG0	7995	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BC00-4AG0	8495	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BC00-4CG0	8795	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BC00-4AG0	8995	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BC00-4CG0	9295	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
6-pole																			
1NC1 404-6BC00-4AG0	3905	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-6BC00-4CG0	4005	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-6BC00-4AG0	4105	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-6BC00-4CG0	4305	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BC00-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BC00-4CG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BC00-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BC00-4CG0	5125	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BC00-4AG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BC00-4CG0	5425	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BC00-4CG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BC00-4AG0	5775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BC00-4AG0	6175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BC00-4CG0	6375	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BC00-4CG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BC00-4AG0	6475	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BC00-4CG0	7175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BC00-4AG0	6875	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-6BC00-4CG0	8595	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-6BC00-4CG0	9195	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-6BC00-4CG0	9895	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
8-pole																			
1NC1 404-8BC00-4AG0	3805	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-8BC00-4CG0	4005	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-8BC00-4AG0	4105	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-8BC00-4CG0	4205	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BC00-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BC00-4CG0	4725	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BC00-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 454-8BC00-4CG0	5025	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BC00-4AG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BC00-4CG0	5425	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BC00-4CG0	6275	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BC00-4AG0	6075	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BC00-4AG0	6475	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BC00-4CG0	6675	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BC00-4AG0	6875	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BC00-4CG0	7075	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-8BC00-4CG0	8695	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-8BC00-4CG0	9195	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-8BC00-4CG0	9795	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
2-pole													
1NC1 402-2BC04-4AG0	4100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 402-2BC04-4CG0	4200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-2BC04-4AG0	4200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-2BC04-4CG0	4300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-2BC04-4AG0	4400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-2BC04-4CG0	4500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
4-pole													
1NC1 404-4BC04-4AG0	4300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-4BC04-4CG0	4400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-4BC04-4AG0	4500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-4BC04-4CG0	4600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BC04-4AG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BC04-4CG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BC04-4AG0	5600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BC04-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BC04-4CG0	6100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BC04-4AG0	5900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BC04-4CG0	7100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BC04-4AG0	6900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BC04-4CG0	7600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BC04-4AG0	7400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BC04-4CG0	8000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BC04-4AG0	7800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BC04-4CG0	9600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BC04-4AG0	9300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BC04-4AG0	9700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BC04-4CG0	10100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BC04-4AG0	10200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BC04-4CG0	10600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
6-pole													
1NC1 404-6BC04-4AG0	4400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-6BC04-4CG0	4600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-6BC04-4AG0	4700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-6BC04-4CG0	4900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BC04-4AG0	5300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BC04-4CG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 454-6BC04-4AG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BC04-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BC04-4AG0	5900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BC04-4CG0	6100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BC04-4CG0	7000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BC04-4AG0	6800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BC04-4AG0	7200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BC04-4CG0	7400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BC04-4CG0	7700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BC04-4AG0	7500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BC04-4CG0	8200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BC04-4AG0	7900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-6BC04-4CG0	9900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-6BC04-4CG0	10500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-6BC04-4CG0	11100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
8-pole													
1NC1 404-8BC04-4AG0	4400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-8BC04-4CG0	4600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-8BC04-4AG0	4700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-8BC04-4CG0	4800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BC04-4AG0	5200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BC04-4CG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BC04-4AG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BC04-4CG0	5600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BC04-4AG0	5800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BC04-4CG0	6000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BC04-4CG0	7300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BC04-4AG0	7100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BC04-4AG0	7500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BC04-4CG0	7700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BC04-4AG0	7900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BC04-4CG0	8100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-8BC04-4CG0	9900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-8BC04-4CG0	10500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-8BC04-4CG0	11100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

SIMOTICS HV C - 1NC1 IC416 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 690 V - const torque drive																						
680	600	**1NC1 402-2BC10-4AG0**	3583	96.4	0,94	630	1812	4,10	9.0	3600	320	1718	95.8	0,92	115	1541	93.6	0,90	55	1461	89.9	0,90
680	600	**1NC1 402-2BC10-4CG0**	3583	96.3	0,93	640	1812	4,00	11.0	3600	320	1718	95.6	0,92	115	1541	93.4	0,90	55	1461	89.7	0,90
770	680	**1NC1 404-2BC10-4AG0**	3583	96.7	0,94	710	2052	4,20	10.0	3600	365	1944	96.1	0,92	130	1744	94.2	0,90	60	1653	90.9	0,90
770	680	**1NC1 404-2BC10-4CG0**	3584	96.6	0,93	720	2052	4,20	12.0	3600	365	1944	95.9	0,92	130	1744	94.0	0,90	60	1653	90.8	0,90
870	770	**1NC1 406-2BC10-4AG0**	3583	96.7	0,94	800	2319	4,50	11.0	3600	410	2196	96.0	0,93	145	1971	94.0	0,91	70	1868	90.6	0,91
870	770	**1NC1 406-2BC10-4CG0**	3584	96.6	0,94	800	2318	4,40	13.0	3600	410	2195	95.9	0,93	145	1970	93.9	0,91	70	1867	90.6	0,91
900	790	**1NC1 452-2BC10-4CG0**	3583	96.7	0,94	830	2399	2,70	16.0	3600	425	2270	96.1	0,93	150	2037	93.9	0,92	70	1931	90.2	0,92
1000	880	**1NC1 454-2BC10-4CG0**	3588	97.0	0,94	920	2661	3,50	18.0	3600	470	2522	96.4	0,93	170	2263	94.9	0,91	80	2145	92.1	0,91
1120	990	**1NC1 456-2BC10-4CG0**	3585	97.0	0,94	1020	2983	3,00	20.0	3600	530	2824	96.4	0,94	190	2534	94.4	0,92	90	2402	91.1	0,93
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 690 V - const torque drive																						
800	710	**1NC1 404-4BC10-4AG0**	1790	96.5	0,90	770	4268	2,90	14.0	2600	375	4041	95.1	0,90	135	3626	92.5	0,89	60	3437	88.3	0,90
800	710	**1NC1 404-4BC10-4CG0**	1788	96.5	0,90	770	4273	2,60	19.0	2600	375	4046	95.2	0,89	135	3631	92.3	0,89	60	3442	87.7	0,89
900	790	**1NC1 406-4BC10-4AG0**	1791	96.6	0,90	870	4799	3,10	16.0	2600	425	4543	95.1	0,90	150	4077	92.7	0,89	70	3865	88.7	0,89
900	790	**1NC1 406-4BC10-4CG0**	1790	96.6	0,90	870	4801	2,80	21.0	2600	425	4548	95.3	0,89	150	4082	92.6	0,89	70	3869	88.4	0,89
1000	880	**1NC1 452-4BC10-4AG0**	1792	96.8	0,90	960	5329	3,20	22.0	2400	470	5047	95.7	0,88	170	4529	93.5	0,87	80	4293	90.1	0,87
1000	880	**1NC1 452-4BC10-4CG0**	1791	96.8	0,89	970	5332	2,90	29.0	2400	470	5047	95.7	0,88	170	4529	93.5	0,86	80	4293	90.0	0,86
1120	990	**1NC1 454-4BC10-4AG0**	1793	96.9	0,89	1080	5965	3,80	25.0	2400	530	5648	95.6	0,88	190	5068	93.7	0,86	90	4804	90.7	0,86
1120	990	**1NC1 454-4BC10-4CG0**	1793	96.9	0,89	1080	5965	3,40	32.0	2400	530	5648	95.8	0,87	190	5068	93.8	0,85	90	4804	90.7	0,85
1250	1100	**1NC1 456-4BC10-4AG0**	1793	97.0	0,90	1200	6657	3,80	29.0	2400	590	6302	95.8	0,88	210	5656	94.1	0,87	100	5361	91.3	0,86
1250	1100	**1NC1 456-4BC10-4CG0**	1793	97.0	0,89	1220	6657	3,40	37.0	2400	590	6302	96.0	0,88	210	5656	94.2	0,86	100	5361	91.3	0,86
1250	1100	**1NC1 502-4BC10-4CG0**	1792	96.5	0,86	1260	6661	2,40	35.0	2200	590	6307	95.6	0,85	210	5660	93.4	0,84	100	5365	89.9	0,85
1200	1060	**1NC1 502-4BC10-4AG0**	1792	96.4	0,87	1200	6395	3,10	26.0	2200	565	6055	95.4	0,86	200	5434	93.3	0,84	95	5151	89.9	0,85
1300	1150	**1NC1 504-4BC10-4CG0**	1792	96.6	0,88	1280	6928	2,60	40.0	2200	615	6560	95.5	0,87	220	5887	93.5	0,86	100	5580	90.1	0,86
1300	1150	**1NC1 504-4BC10-4AG0**	1792	96.5	0,89	1260	6928	3,20	30.0	2200	615	6559	95.3	0,88	220	5886	93.2	0,87	100	5579	89.9	0,87
1500	1320	**1NC1 506-4BC10-4AG0**	1793	96.7	0,88	1480	7989	3,70	35.0	2200	710	7563	95.5	0,87	250	6787	93.7	0,85	120	6433	90.9	0,85
1500	1320	**1NC1 506-4BC10-4CG0**	1794	96.8	0,87	1500	7984	2,90	45.0	2200	710	7562	95.8	0,86	250	6787	94.0	0,85	120	6432	91.3	0,85
1600	1410	**1NC1 562-4BC10-4CG0**	1793	97.0	0,88	1560	8521	2,60	68.0	2000	755	8069	96.0	0,87	270	7242	94.3	0,86	125	6864	91.5	0,86
1600	1410	**1NC1 562-4BC10-4AG0**	1794	96.9	0,88	1580	8517	3,00	50.0	2000	755	8068	95.9	0,87	270	7241	94.2	0,86	125	6863	91.5	0,86
1800	1590	**1NC1 564-4BC10-4AG0**	1794	97.0	0,88	1760	9581	3,20	55.0	2000	850	9072	96.0	0,87	305	8142	94.3	0,86	140	7717	91.5	0,86
1800	1590	**1NC1 564-4BC10-4CG0**	1794	97.1	0,88	1760	9581	2,80	75.0	2000	850	9073	96.1	0,87	305	8143	94.4	0,85	140	7718	91.5	0,86
2000	1760	**1NC1 566-4BC10-4AG0**	1793	97.1	0,89	1940	10652	3,00	62.0	2000	945	10079	96.1	0,88	335	9046	94.2	0,87	155	8573	91.1	0,88
2000	1760	**1NC1 566-4BC10-4CG0**	1793	97.2	0,89	1940	10652	2,60	83.0	2000	945	10087	96.1	0,88	335	9052	94.2	0,87	155	8580	91.1	0,88
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 690 V - const torque drive																						
630	560	**1NC1 404-6BC10-4AG0**	1194	96.3	0,89	620	5039	3,10	25.0	2400	295	4769	94.3	0,88	105	4280	91.3	0,87	50	4057	86.9	0,88

SIMOTICS HV C - 1NC1 IC416 690 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
630	560	**1NC1 404-6BC10-4CG0**	1193	96.3	0,88	620	5043	2,70	32.0	2400	295	4774	94.7	0,87	105	4285	91.5	0,87	50	4061	86.7	0,87
710	630	**1NC1 406-6BC10-4AG0**	1195	96.4	0,89	690	5674	3,30	28.0	2400	335	5372	94.3	0,88	120	4821	91.6	0,87	55	4570	87.8	0,87
710	630	**1NC1 406-6BC10-4CG0**	1194	96.5	0,88	700	5678	2,90	37.0	2400	335	5378	94.9	0,87	120	4826	92.1	0,87	55	4574	87.9	0,87
800	710	**1NC1 452-6BC10-4AG0**	1194	96.4	0,85	820	6398	3,00	33.0	2200	375	6059	94.8	0,84	135	5438	92.1	0,83	60	5154	87.9	0,84
800	710	**1NC1 452-6BC10-4CG0**	1193	96.6	0,84	820	6404	2,70	42.0	2200	375	6063	95.0	0,84	135	5441	92.2	0,84	60	5157	87.8	0,84
900	790	**1NC1 454-6BC10-4AG0**	1195	96.5	0,84	930	7192	3,70	38.0	2200	425	6809	94.6	0,82	150	6110	92.2	0,81	70	5792	88.5	0,81
900	790	**1NC1 454-6BC10-4CG0**	1194	96.7	0,85	920	7198	3,20	47.0	2200	425	6813	95.1	0,83	150	6115	92.7	0,82	70	5796	88.9	0,82
1000	880	**1NC1 456-6BC10-4AG0**	1195	96.6	0,85	1020	7991	3,80	44.0	2200	470	7564	94.9	0,83	170	6788	92.7	0,81	80	6434	89.3	0,81
1000	880	**1NC1 456-6BC10-4CG0**	1195	96.8	0,85	1020	7991	3,30	55.0	2200	470	7567	95.3	0,83	170	6791	93.2	0,82	80	6436	89.7	0,82
1120	990	**1NC1 500-6BC10-4CG0**	1194	96.8	0,86	1120	8957	2,10	57.0	2100	530	8484	95.7	0,86	190	7614	93.2	0,86	85	7216	89.3	0,87
1120	990	**1NC1 500-6BC10-4AG0**	1192	96.6	0,83	1160	8972	2,20	44.0	2100	530	8497	95.2	0,83	185	7626	92.3	0,84	85	7228	87.8	0,84
1250	1100	**1NC1 502-6BC10-4CG0**	1194	96.9	0,86	1260	9997	2,10	65.0	2100	590	9467	95.8	0,86	210	8496	93.5	0,86	100	8053	89.9	0,87
1250	1100	**1NC1 502-6BC10-4AG0**	1192	96.7	0,83	1300	10014	2,20	50.0	2100	590	9481	95.3	0,84	210	8509	92.5	0,84	95	8065	88.4	0,85
1400	1230	**1NC1 504-6BC10-4CG0**	1195	97.0	0,86	1400	11187	2,50	74.0	2100	660	10591	95.9	0,85	235	9505	93.8	0,85	110	9009	90.6	0,85
1400	1230	**1NC1 504-6BC10-4AG0**	1194	96.8	0,84	1440	11197	2,60	57.0	2100	660	10611	95.4	0,84	235	9523	92.9	0,84	110	9026	89.3	0,84
1600	1410	**1NC1 506-6BC10-4AG0**	1193	96.8	0,86	1600	12807	2,40	65.0	2100	755	12135	95.3	0,86	265	10890	92.6	0,86	125	10322	88.7	0,86
1500	1320	**1NC1 506-6BC10-4CG0**	1195	97.0	0,87	1480	11987	2,40	83.0	2100	710	11348	95.8	0,87	250	10184	93.6	0,87	120	9653	90.4	0,87
1700	1500	**1NC1 562-6BC10-4CG0**	1195	97.1	0,87	1680	13585	2,80	116.0	2000	800	12858	95.8	0,87	285	11539	93.8	0,87	135	10937	90.7	0,87
1900	1670	**1NC1 564-6BC10-4CG0**	1196	97.2	0,86	1900	15170	3,20	132.0	2000	895	14361	95.9	0,86	320	12888	94.1	0,86	150	12216	91.6	0,85
2050	1810	**1NC1 566-6BC10-4CG0**	1196	97.3	0,87	2050	16368	2,90	147.0	2000	970	15501	95.9	0,87	345	13911	94.1	0,87	160	13185	91.3	0,87
8-pole: n_{sync} = 900 rpm at - 60 Hz - 690 V - const torque drive																						
470	410	**1NC1 404-8BC10-4AG0**	895	96.1	0,82	500	5015	3,40	25.0	2400	220	4750	93.2	0,80	80	4262	89.5	0,79	35	4040	84.2	0,79
470	410	**1NC1 404-8BC10-4CG0**	894	96.1	0,81	510	5020	2,90	32.0	2400	220	4758	93.5	0,80	80	4270	89.6	0,78	35	4047	83.8	0,79
530	470	**1NC1 406-8BC10-4AG0**	895	96.2	0,83	560	5655	3,40	29.0	2400	250	5357	93.4	0,82	90	4808	89.8	0,80	40	4557	84.7	0,80
530	470	**1NC1 406-8BC10-4CG0**	894	96.2	0,82	560	5661	2,90	36.0	2400	250	5365	93.7	0,81	90	4815	89.9	0,79	40	4563	84.3	0,80
710	630	**1NC1 452-8BC10-4AG0**	893	96.0	0,79	780	7592	2,20	33.0	2200	335	7192	93.6	0,79	120	6454	89.3	0,80	55	6118	82.8	0,81
710	630	**1NC1 452-8BC10-4CG0**	891	95.8	0,78	800	7609	2,20	41.0	2200	335	7207	93.4	0,79	115	6468	88.7	0,80	55	6130	81.5	0,81
800	710	**1NC1 454-8BC10-4AG0**	893	96.1	0,80	870	8555	2,20	38.0	2200	375	8103	93.7	0,80	135	7272	89.6	0,81	60	6893	83.3	0,82
800	710	**1NC1 454-8BC10-4CG0**	891	96.0	0,80	870	8574	2,30	47.0	2200	375	8118	93.6	0,80	130	7286	89.1	0,81	60	6906	82.1	0,82
900	790	**1NC1 456-8BC10-4CG0**	894	96.4	0,79	990	9613	2,90	55.0	2200	425	9110	94.2	0,78	150	8176	90.8	0,77	70	7749	85.5	0,78
900	790	**1NC1 456-8BC10-4AG0**	895	96.3	0,79	990	9603	2,90	45.0	2200	425	9097	94.0	0,77	150	8164	90.6	0,76	70	7738	85.7	0,77
900	790	**1NC1 502-8BC10-4CG0**	894	96.0	0,85	920	9613	2,10	65.0	2100	425	9105	94.6	0,84	150	8172	91.6	0,83	70	7745	86.8	0,83
900	790	**1NC1 502-8BC10-4AG0**	893	96.0	0,80	980	9624	1,80	50.0	2100	425	9114	94.5	0,79	150	8179	91.2	0,79	70	7752	85.9	0,80
1050	930	**1NC1 504-8BC10-4AG0**	893	96.1	0,81	1120	11228	1,80	56.0	2100	495	10631	94.6	0,80	175	9541	91.3	0,80	80	9043	86.2	0,81
1000	880	**1NC1 504-8BC10-4CG0**	894	96.0	0,85	1020	10682	2,20	73.0	2100	470	10110	94.6	0,84	165	9074	91.7	0,83	75	8600	87.3	0,83

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SIMOTICS HV C - 1NC1 IC416 690 V / 60 Hz B3 (IM 1001) - VSD const torque

Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/F								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 690 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
1120	990	**1NC1 506-8BC10-4AG0**	894	96.2	0,82	1180	11963	1,90	64.0	2100	525	11337	94.6	0,81	185	10174	91.5	0,81	85	9643	86.5	0,81
1120	990	**1NC1 506-8BC10-4CG0**	894	96.1	0,85	1140	11963	2,20	83.0	2100	530	11325	94.6	0,84	185	10163	91.7	0,83	85	9633	87.3	0,84
1250	1100	**1NC1 562-8BC10-4CG0**	895	96.6	0,84	1280	13337	2,30	115.0	2000	590	12631	95.4	0,84	210	11336	92.7	0,84	95	10744	88.7	0,85
1500	1320	**1NC1 564-8BC10-4CG0**	895	96.7	0,85	1520	16004	2,10	132.0	2000	705	15166	95.4	0,85	250	13610	92.6	0,85	115	12900	88.5	0,86
1700	1500	**1NC1 566-8BC10-4CG0**	895	96.8	0,85	1720	18138	2,20	147.0	2000	800	17180	95.3	0,85	285	15418	92.7	0,85	130	14614	88.9	0,85

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 402-2BC10-4AG0	3505	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 402-2BC10-4CG0	3605	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-2BC10-4AG0	3705	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-2BC10-4CG0	3705	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-2BC10-4AG0	3805	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-2BC10-4CG0	3905	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-2BC10-4CG0	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-2BC10-4CG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-2BC10-4CG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
4-pole																			
1NC1 404-4BC10-4AG0	3705	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-4BC10-4CG0	3805	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-4BC10-4AG0	3905	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-4BC10-4CG0	4005	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BC10-4AG0	4725	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BC10-4CG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BC10-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BC10-4CG0	5125	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BC10-4AG0	5325	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BC10-4CG0	5525	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BC10-4CG0	6175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BC10-4AG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BC10-4CG0	6575	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BC10-4AG0	6275	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BC10-4AG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BC10-4CG0	6975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BC10-4CG0	8395	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BC10-4AG0	8095	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BC10-4AG0	8395	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BC10-4CG0	8695	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BC10-4AG0	8895	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BC10-4CG0	9295	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
6-pole																			
1NC1 404-6BC10-4AG0	3905	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-6BC10-4CG0	4005	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-6BC10-4AG0	4105	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 406-6BC10-4CG0	4305	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BC10-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BC10-4CG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BC10-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BC10-4CG0	5125	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BC10-4AG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BC10-4CG0	5425	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BC10-4CG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BC10-4AG0	5775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BC10-4CG0	6375	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BC10-4AG0	6175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BC10-4CG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BC10-4AG0	6475	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BC10-4AG0	6875	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BC10-4CG0	7175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-6BC10-4CG0	8595	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-6BC10-4CG0	9295	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-6BC10-4CG0	9795	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
8-pole																			
1NC1 404-8BC10-4AG0	3805	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-8BC10-4CG0	4005	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-8BC10-4AG0	4105	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-8BC10-4CG0	4205	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BC10-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BC10-4CG0	4725	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BC10-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BC10-4CG0	5025	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BC10-4CG0	5425	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BC10-4AG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BC10-4CG0	6275	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BC10-4AG0	6075	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BC10-4AG0	6475	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BC10-4CG0	6675	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BC10-4AG0	6875	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BC10-4CG0	7175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-8BC10-4CG0	8595	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-8BC10-4CG0	9195	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 566-8BC10-4CG0	9795	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NC1 404-4BC14-4AG0	4300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-4BC14-4CG0	4400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-4BC14-4AG0	4500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-4BC14-4CG0	4600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BC14-4AG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BC14-4CG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BC14-4AG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BC14-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BC14-4AG0	5900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BC14-4CG0	6100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BC14-4CG0	7200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BC14-4AG0	7000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BC14-4CG0	7600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BC14-4AG0	7300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BC14-4AG0	7800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BC14-4CG0	8000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BC14-4CG0	9600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BC14-4AG0	9300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BC14-4AG0	9700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BC14-4CG0	10000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BC14-4AG0	10100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BC14-4CG0	10500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
6-pole													
1NC1 404-6BC14-4AG0	4400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-6BC14-4CG0	4600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-6BC14-4AG0	4700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-6BC14-4CG0	4900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BC14-4AG0	5300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BC14-4CG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BC14-4AG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BC14-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BC14-4AG0	5900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BC14-4CG0	6100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BC14-4CG0	7000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BC14-4AG0	6800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BC14-4CG0	7400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 690 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NC1 502-6BC14-4AG0	7200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BC14-4CG0	7800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BC14-4AG0	7500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BC14-4AG0	7900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BC14-4CG0	8100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-6BC14-4CG0	9900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-6BC14-4CG0	10500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-6BC14-4CG0	11100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
8-pole													
1NC1 404-8BC14-4AG0	4400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 404-8BC14-4CG0	4600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-8BC14-4AG0	4700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 406-8BC14-4CG0	4800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BC14-4AG0	5200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BC14-4CG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BC14-4AG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BC14-4CG0	5600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BC14-4CG0	6000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BC14-4AG0	5900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BC14-4CG0	7300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BC14-4AG0	7100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BC14-4AG0	7500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BC14-4CG0	7700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BC14-4AG0	7900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BC14-4CG0	8200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-8BC14-4CG0	9900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-8BC14-4CG0	10500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-8BC14-4CG0	11100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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SIMOTICS HV C - 1NC1 IC416 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3000 rpm at - 50 Hz - 4160 V - const torque drive																						
	800	**1NC1 452-2BR40-4AG0**	2984	96.8	0,90	128	2560	2,50	11.0	3600	375	2424	96.2	0,89	135	2176	93.5	0,88	65	2062	90.6	0,88
	800	**1NC1 452-2BR40-4CG0**	2980	96.5	0,89	130	2564	2,20	15.0	3600	375	2429	95.9	0,89	135	2180	92.9	0,88	60	2066	89.7	0,88
	900	**1NC1 454-2BR40-4AG0**	2987	97.1	0,91	142	2877	3,10	13.0	3600	425	2724	96.6	0,90	150	2445	94.3	0,88	70	2317	91.7	0,87
	900	**1NC1 454-2BR40-4CG0**	2984	96.8	0,91	142	2880	2,60	17.0	3600	425	2728	96.3	0,90	150	2448	93.8	0,88	70	2321	91.0	0,87
	1000	**1NC1 456-2BR40-4AG0**	2987	97.1	0,91	158	3197	3,30	14.0	3600	470	3026	96.7	0,90	170	2716	94.5	0,89	80	2574	92.0	0,87
	1000	**1NC1 456-2BR40-4CG0**	2985	96.9	0,91	158	3199	2,70	19.0	3600	470	3031	96.5	0,90	165	2720	94.0	0,89	80	2578	91.3	0,87
	1120	**1NC1 502-2BR40-4CG0**	2987	96.9	0,89	180	3581	2,80	24.0	3000	530	3391	96.7	0,89	190	3043	94.7	0,88	90	2884	92.4	0,86
	1120	**1NC1 502-2BR40-4AG0**	2987	97.0	0,89	180	3581	3,00	19.0	3000	530	3391	96.7	0,89	190	3043	94.8	0,88	90	2884	92.5	0,86
	1200	**1NC1 504-2BR40-4AG0**	2988	97.1	0,90	190	3835	3,40	21.0	3000	565	3631	96.9	0,90	200	3259	95.1	0,88	95	3089	92.9	0,87
	1200	**1NC1 504-2BR40-4CG0**	2989	97.0	0,90	190	3834	3,10	27.0	3000	565	3631	96.9	0,90	200	3259	95.0	0,88	95	3089	92.8	0,86
	1350	**1NC1 506-2BR40-4AG0**	2988	97.2	0,91	210	4314	3,50	24.0	3000	635	4084	97.0	0,90	225	3665	95.2	0,89	105	3474	93.2	0,87
	1350	**1NC1 506-2BR40-4CG0**	2989	97.1	0,90	215	4313	3,00	31.0	3000	635	4084	97.0	0,90	225	3665	95.2	0,89	105	3474	93.1	0,87
	1500	**1NC1 564-2BR40-4CG0**	2991	97.1	0,91	235	4789	3,00	46.0	3000	710	4534	97.2	0,91	255	4069	95.8	0,90	120	3856	94.0	0,87
	1700	**1NC1 566-2BR40-4CG0**	2991	97.2	0,91	265	5428	3,00	51.0	3000	805	5139	97.3	0,91	285	4612	95.9	0,90	135	4371	94.2	0,88
4-pole: n_{sync} = 1500 rpm at - 50 Hz - 4160 V - const torque drive																						
	800	**1NC1 452-4BR40-4AG0**	1493	96.6	0,84	136	5117	3,20	18.0	2400	375	4847	96.2	0,83	135	4350	93.4	0,80	65	4123	89.7	0,73
	800	**1NC1 452-4BR40-4CG0**	1493	96.7	0,83	138	5117	2,70	23.0	2400	375	4849	96.2	0,83	135	4352	93.5	0,80	65	4124	90.3	0,75
	900	**1NC1 454-4BR40-4AG0**	1493	96.7	0,84	154	5756	3,50	20.0	2400	425	5450	96.3	0,84	150	4891	93.4	0,80	70	4636	89.5	0,72
	900	**1NC1 454-4BR40-4CG0**	1493	96.7	0,84	154	5756	2,90	26.0	2400	425	5452	96.3	0,83	150	4893	93.6	0,81	70	4637	90.3	0,75
	1000	**1NC1 456-4BR40-4AG0**	1493	96.8	0,86	166	6396	3,40	23.0	2400	470	6056	96.4	0,85	170	5435	93.5	0,82	80	5152	90.0	0,76
	1000	**1NC1 456-4BR40-4CG0**	1493	96.8	0,85	168	6396	2,80	30.0	2400	470	6057	96.4	0,84	170	5436	93.8	0,82	80	5152	90.7	0,77
	1050	**1NC1 502-4BR40-4CG0**	1493	96.6	0,86	176	6716	2,40	35.0	2200	495	6360	96.3	0,85	175	5708	93.9	0,84	85	5410	91.0	0,80
	1050	**1NC1 502-4BR40-4AG0**	1493	96.6	0,87	174	6716	3,00	26.0	2200	495	6362	96.2	0,86	175	5710	93.7	0,84	80	5412	90.4	0,79
	1160	**1NC1 504-4BR40-4CG0**	1493	96.8	0,86	194	7419	2,50	40.0	2200	545	7029	96.4	0,86	195	6308	94.1	0,85	90	5979	91.4	0,81
	1160	**1NC1 504-4BR40-4AG0**	1493	96.7	0,87	192	7419	3,10	30.0	2200	545	7027	96.4	0,87	195	6307	93.8	0,85	90	5977	90.7	0,80
	1250	**1NC1 506-4BR40-4CG0**	1494	96.9	0,87	205	7990	2,70	45.0	2200	590	7569	96.7	0,87	210	6792	94.5	0,85	100	6438	92.0	0,81
	1250	**1NC1 506-4BR40-4AG0**	1494	96.8	0,88	205	7990	3,40	35.0	2200	590	7569	96.6	0,87	210	6792	94.3	0,85	100	6438	91.4	0,80
	1350	**1NC1 560-4BR40-4CG0**	1494	97.1	0,85	225	8629	2,40	60.0	2000	635	8176	96.8	0,85	225	7338	94.7	0,83	105	6955	92.3	0,80
	1350	**1NC1 560-4BR40-4AG0**	1494	97.0	0,86	225	8629	2,80	44.0	2000	635	8171	96.8	0,85	225	7333	94.7	0,83	105	6951	92.0	0,78
	1550	**1NC1 562-4BR40-4CG0**	1494	97.3	0,86	255	9907	2,50	68.0	2000	730	9383	97.1	0,85	260	8420	95.1	0,83	125	7981	92.9	0,79
	1550	**1NC1 562-4BR40-4AG0**	1495	97.2	0,86	255	9901	2,90	50.0	2000	730	9379	97.0	0,86	260	8417	95.1	0,83	125	7978	92.6	0,77
	1750	**1NC1 564-4BR40-4AG0**	1495	97.3	0,87	285	11178	3,10	55.0	2000	825	10587	97.1	0,86	295	9502	95.1	0,84	140	9006	92.6	0,77
	1750	**1NC1 564-4BR40-4CG0**	1495	97.4	0,87	285	11178	2,70	75.0	2000	825	10589	97.2	0,86	295	9503	95.2	0,84	140	9007	93.0	0,79
	1950	**1NC1 566-4BR40-4AG0**	1495	97.4	0,88	315	12456	3,20	62.0	2000	920	11797	97.2	0,87	330	10587	95.1	0,84	155	10034	92.6	0,78

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SIMOTICS HV C - 1NC1 IC416 4160 V / 50 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	1950	**1NC1 566-4BR40-4CG0**	1495	97.5	0,87	320	12456	2,70	83.0	2000	920	11799	97.3	0,86	330	10589	95.3	0,84	155	10036	93.1	0,80
6-pole: n_{sync} = 1000 rpm at - 50 Hz - 4160 V - const torque drive																						
	630	**1NC1 452-6BR40-4AG0**	992	96.0	0,80	114	6065	1,80	26.0	2200	295	5749	94.8	0,81	105	5159	90.8	0,81	50	4890	86.4	0,80
	630	**1NC1 452-6BR40-4CG0**	992	96.1	0,84	108	6065	2,00	34.0	2200	295	5749	94.9	0,83	105	5159	91.0	0,84	50	4890	86.7	0,82
	710	**1NC1 454-6BR40-4AG0**	994	96.2	0,81	126	6821	2,20	30.0	2200	335	6465	95.3	0,81	120	5802	91.8	0,80	55	5499	87.5	0,76
	710	**1NC1 454-6BR40-4CG0**	994	96.3	0,84	122	6821	2,40	39.0	2200	335	6465	95.4	0,83	120	5802	92.0	0,83	55	5499	87.8	0,78
	850	**1NC1 456-6BR40-4AG0**	994	96.4	0,81	152	8166	2,30	35.0	2200	400	7737	95.5	0,81	140	6944	92.3	0,81	65	6581	88.1	0,76
	850	**1NC1 456-6BR40-4CG0**	994	96.5	0,84	146	8166	2,50	46.0	2200	400	7737	95.6	0,84	140	6944	92.4	0,83	65	6581	88.5	0,78
	850	**1NC1 500-6BR40-4CG0**	995	96.7	0,86	142	8158	2,10	57.0	2100	400	7733	95.8	0,86	140	6940	92.7	0,86	65	6578	89.0	0,84
	850	**1NC1 500-6BR40-4AG0**	993	96.4	0,83	148	8174	2,20	44.0	2100	400	7749	95.4	0,83	140	6955	91.7	0,84	65	6592	87.6	0,82
	950	**1NC1 502-6BR40-4AG0**	994	96.5	0,84	162	9127	2,60	50.0	2100	450	8650	95.6	0,84	160	7763	92.1	0,84	75	7358	87.9	0,81
	950	**1NC1 502-6BR40-4CG0**	995	96.7	0,86	158	9117	2,40	65.0	2100	450	8632	96.0	0,86	160	7747	92.9	0,86	75	7343	89.2	0,82
	1050	**1NC1 504-6BR40-4AG0**	994	96.7	0,85	178	10087	2,40	57.0	2100	495	9560	95.7	0,85	175	8579	92.4	0,85	80	8131	88.6	0,83
	1050	**1NC1 504-6BR40-4CG0**	995	96.8	0,87	174	10077	2,30	74.0	2100	495	9545	96.1	0,87	175	8567	93.3	0,87	80	8119	89.9	0,84
	1200	**1NC1 506-6BR40-4AG0**	994	96.8	0,85	200	11528	2,60	65.0	2100	565	10928	96.0	0,85	200	9807	92.9	0,85	95	9295	89.2	0,82
	1200	**1NC1 506-6BR40-4CG0**	996	97.0	0,87	198	11505	2,40	83.0	2100	565	10903	96.4	0,87	200	9784	93.7	0,86	95	9274	90.6	0,83
	1350	**1NC1 562-6BR40-4CG0**	996	97.1	0,86	225	12943	2,90	116.0	2000	635	12260	96.9	0,87	225	11002	94.5	0,86	105	10428	91.8	0,81
	1550	**1NC1 564-6BR40-4CG0**	996	97.2	0,87	255	14861	2,70	132.0	2000	730	14079	96.9	0,88	260	12635	94.5	0,87	120	11976	91.8	0,84
	1700	**1NC1 566-6BR40-4CG0**	996	97.3	0,87	280	16299	2,90	147.0	2000	800	15436	97.0	0,88	285	13853	94.8	0,87	135	13130	92.2	0,83
8-pole: n_{sync} = 750 rpm at - 50 Hz - 4160 V - const torque drive																						
	530	**1NC1 452-8BR40-4AG0**	742	95.7	0,77	100	6821	1,80	26.0	2200	250	6460	94.0	0,78	85	5797	88.9	0,79	40	5495	83.2	0,77
	530	**1NC1 452-8BR40-4CG0**	743	95.8	0,81	95	6812	1,90	35.0	2200	250	6458	94.3	0,81	90	5795	89.4	0,81	40	5493	83.8	0,78
	600	**1NC1 454-8BR40-4AG0**	743	95.9	0,78	112	7711	1,90	30.0	2200	280	7311	94.4	0,78	100	6561	89.7	0,79	45	6219	84.1	0,76
	600	**1NC1 454-8BR40-4CG0**	744	95.9	0,81	108	7701	2,00	39.0	2200	280	7303	94.6	0,81	100	6554	90.1	0,81	45	6212	84.6	0,77
	640	**1NC1 456-8BR40-4AG0**	744	96.1	0,78	118	8214	2,30	35.0	2200	300	7784	95.0	0,78	105	6986	91.0	0,77	50	6621	85.8	0,72
	640	**1NC1 456-8BR40-4CG0**	745	96.1	0,80	116	8203	2,40	46.0	2200	300	7773	95.2	0,80	105	6976	91.2	0,78	50	6612	86.1	0,73
	660	**1NC1 502-8BR40-4CG0**	744	95.8	0,85	112	8471	2,10	65.0	2100	310	8024	94.5	0,84	110	7201	90.7	0,84	50	6825	86.1	0,82
	660	**1NC1 502-8BR40-4AG0**	744	95.7	0,80	120	8471	1,80	50.0	2100	310	8030	94.3	0,81	110	7207	90.1	0,80	50	6831	85.3	0,79
	750	**1NC1 504-8BR40-4AG0**	745	96.0	0,80	136	9613	2,20	56.0	2100	355	9108	95.0	0,80	125	8174	91.5	0,79	60	7748	87.1	0,75
	750	**1NC1 504-8BR40-4CG0**	746	96.0	0,84	130	9600	2,60	73.0	2100	355	9099	95.1	0,84	125	8166	91.8	0,82	60	7739	87.6	0,77
	850	**1NC1 506-8BR40-4AG0**	745	96.0	0,81	152	10895	2,40	64.0	2100	400	10315	94.9	0,80	140	9257	91.5	0,79	65	8774	86.8	0,74
	850	**1NC1 506-8BR40-4CG0**	746	95.9	0,84	146	10881	2,70	83.0	2100	400	10306	95.1	0,83	140	9249	91.8	0,81	65	8767	87.3	0,76
	1000	**1NC1 562-8BR40-4CG0**	746	96.7	0,84	170	12801	2,40	115.0	2000	470	12132	96.1	0,85	165	10888	93.1	0,84	80	10319	89.5	0,80
	1120	**1NC1 564-8BR40-4CG0**	746	96.8	0,84	192	14337	2,40	132.0	2000	530	13586	96.2	0,85	185	12193	93.3	0,84	90	11556	89.9	0,80
	1250	**1NC1 566-8BR40-4CG0**	746	96.9	0,84	215	16001	2,60	147.0	2000	590	15155	96.4	0,85	210	13601	93.5	0,84	100	12891	90.2	0,79

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 452-2BR40-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-2BR40-4CG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-2BR40-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-2BR40-4CG0	5025	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-2BR40-4AG0	5125	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-2BR40-4CG0	5325	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-2BR40-4CG0	6175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-2BR40-4AG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-2BR40-4AG0	6275	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-2BR40-4CG0	6475	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-2BR40-4AG0	6675	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-2BR40-4CG0	6875	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-2BR40-4CG0	8395	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-2BR40-4CG0	8795	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
4-pole																			
1NC1 452-4BR40-4AG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BR40-4CG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BR40-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BR40-4CG0	5125	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BR40-4AG0	5325	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BR40-4CG0	5525	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BR40-4CG0	6175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BR40-4AG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BR40-4CG0	6575	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BR40-4AG0	6375	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BR40-4CG0	6975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BR40-4AG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 560-4BR40-4CG0	7995	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 560-4BR40-4AG0	7695	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BR40-4CG0	8395	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BR40-4AG0	8095	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BR40-4AG0	8495	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BR40-4CG0	8795	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BR40-4AG0	8995	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BR40-4CG0	9395	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
6-pole																			

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 4160 V / 50 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 452-6BR40-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BR40-4CG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BR40-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BR40-4CG0	5125	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BR40-4AG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BR40-4CG0	5425	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BR40-4CG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BR40-4AG0	5775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BR40-4AG0	6075	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BR40-4CG0	6275	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BR40-4AG0	6475	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BR40-4CG0	6675	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BR40-4AG0	6875	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BR40-4CG0	7175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-6BR40-4CG0	8695	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-6BR40-4CG0	9295	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-6BR40-4CG0	9795	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
8-pole																			
1NC1 452-8BR40-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BR40-4CG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BR40-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BR40-4CG0	5025	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BR40-4AG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BR40-4CG0	5425	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BR40-4CG0	6275	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BR40-4AG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BR40-4AG0	6375	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BR40-4CG0	6675	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BR40-4AG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BR40-4CG0	6975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-8BR40-4CG0	8495	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-8BR40-4CG0	9195	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-8BR40-4CG0	9695	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NC1 452-4BR44-4AG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BR44-4CG0	5600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BR44-4AG0	5600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BR44-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BR44-4AG0	5900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BR44-4CG0	6100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BR44-4CG0	7100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BR44-4AG0	6900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BR44-4CG0	7600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BR44-4AG0	7400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BR44-4CG0	8000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BR44-4AG0	7800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 560-4BR44-4CG0	9200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 560-4BR44-4AG0	8900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BR44-4CG0	9700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BR44-4AG0	9400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BR44-4AG0	9800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BR44-4CG0	10100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BR44-4AG0	10300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BR44-4CG0	10600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
6-pole													
1NC1 452-6BR44-4AG0	5300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BR44-4CG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BR44-4AG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BR44-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BR44-4AG0	5900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BR44-4CG0	6100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BR44-4CG0	7000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BR44-4AG0	6800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BR44-4AG0	7000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BR44-4CG0	7300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BR44-4AG0	7400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BR44-4CG0	7700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BR44-4AG0	7900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BR44-4CG0	8100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-6BR44-4CG0	9900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 4160 V / 50 Hz V1 (IM 3011) - Dimension drawings													
1NC1 564-6BR44-4CG0	10500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-6BR44-4CG0	11100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
8-pole													
1NC1 452-8BR44-4AG0	5200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BR44-4CG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BR44-4AG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BR44-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BR44-4AG0	5800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BR44-4CG0	6000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BR44-4CG0	7300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BR44-4AG0	7000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BR44-4AG0	7400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BR44-4CG0	7600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BR44-4AG0	7800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BR44-4CG0	8000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-8BR44-4CG0	9800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-8BR44-4CG0	10400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-8BR44-4CG0	11000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

SIMOTICS HV C - 1NC1 IC416 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		SIMOTICS HV C VSD const	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
2-pole: n_{sync} = 3600 rpm at - 60 Hz - 4160 V - const torque drive																						
	900	**1NC1 452-2BR30-4CG0**	3582	96.6	0,89	146	2399	2,30	15.0	3600	425	2273	96.2	0,89	150	2040	93.9	0,88	70	1933	91.4	0,87
	1050	**1NC1 454-2BR30-4CG0**	3584	96.8	0,90	168	2798	2,70	17.0	3600	495	2649	96.5	0,89	175	2377	94.5	0,88	85	2253	92.2	0,85
	1120	**1NC1 456-2BR30-4CG0**	3587	96.9	0,90	178	2982	3,00	19.0	3600	530	2824	96.7	0,90	190	2534	94.8	0,88	90	2402	92.6	0,84
4-pole: n_{sync} = 1800 rpm at - 60 Hz - 4160 V - const torque drive																						
	900	**1NC1 452-4BR30-4AG0**	1794	96.6	0,83	156	4791	3,50	18.0	2400	425	4537	96.3	0,82	150	4071	93.7	0,78	70	3859	90.4	0,69
	900	**1NC1 452-4BR30-4CG0**	1793	96.6	0,83	156	4793	2,90	23.0	2400	425	4539	96.4	0,82	150	4073	94.0	0,79	70	3860	91.2	0,72
	1000	**1NC1 454-4BR30-4AG0**	1794	96.6	0,83	174	5323	3,70	20.0	2400	470	5040	96.4	0,82	170	4523	94.0	0,78	80	4287	90.6	0,68
	1000	**1NC1 454-4BR30-4CG0**	1794	96.7	0,83	172	5323	3,10	26.0	2400	470	5041	96.5	0,82	170	4524	94.3	0,78	80	4288	91.5	0,71
	1120	**1NC1 456-4BR30-4AG0**	1794	96.8	0,84	192	5962	3,90	23.0	2400	530	5644	96.6	0,83	190	5065	94.1	0,79	90	4801	90.9	0,69
	1120	**1NC1 456-4BR30-4CG0**	1794	96.8	0,83	194	5962	3,20	30.0	2400	530	5645	96.6	0,82	190	5066	94.4	0,79	90	4801	91.8	0,72
	1150	**1NC1 502-4BR30-4CG0**	1793	96.6	0,85	194	6125	2,50	35.0	2200	545	5799	96.6	0,85	195	5204	94.7	0,83	90	4933	92.5	0,78
	1150	**1NC1 502-4BR30-4AG0**	1793	96.5	0,86	192	6125	3,20	26.0	2200	545	5799	96.5	0,85	195	5204	94.5	0,82	90	4933	91.8	0,76
	1350	**1NC1 504-4BR30-4AG0**	1793	96.7	0,87	225	7190	3,10	30.0	2200	635	6811	96.6	0,87	225	6112	94.5	0,85	105	5793	92.0	0,80
	1350	**1NC1 504-4BR30-4CG0**	1793	96.8	0,86	225	7190	2,40	40.0	2200	635	6810	96.6	0,86	225	6111	94.7	0,84	105	5792	92.5	0,81
	1420	**1NC1 506-4BR30-4AG0**	1794	96.7	0,87	235	7559	3,70	35.0	2200	670	7156	96.7	0,86	240	6422	94.6	0,83	110	6087	92.0	0,76
	1420	**1NC1 506-4BR30-4CG0**	1794	96.8	0,86	235	7559	2,90	45.0	2200	670	7156	96.8	0,86	240	6422	94.9	0,83	115	6087	92.8	0,78
	1600	**1NC1 560-4BR30-4CG0**	1793	97.0	0,84	275	8521	2,10	60.0	2000	755	8068	96.9	0,85	270	7241	95.2	0,83	125	6863	93.2	0,81
	1600	**1NC1 560-4BR30-4AG0**	1794	96.9	0,86	265	8517	2,40	44.0	2000	755	8065	96.9	0,85	270	7238	95.2	0,84	125	6860	93.1	0,79
	1800	**1NC1 562-4BR30-4CG0**	1794	97.2	0,86	300	9581	2,40	68.0	2000	850	9071	97.1	0,86	305	8141	95.3	0,84	145	7716	93.4	0,81
	1800	**1NC1 562-4BR30-4AG0**	1794	97.1	0,87	295	9581	2,80	50.0	2000	850	9074	97.0	0,86	305	8144	95.2	0,84	145	7719	93.1	0,79
	1950	**1NC1 564-4BR30-4AG0**	1795	97.2	0,88	315	10374	3,00	55.0	2000	920	9827	97.1	0,87	330	8819	95.3	0,85	155	8358	93.1	0,79
	1950	**1NC1 564-4BR30-4CG0**	1795	97.3	0,87	320	10374	2,60	75.0	2000	920	9829	97.2	0,86	330	8821	95.4	0,84	155	8361	93.5	0,80
	2150	**1NC1 566-4BR30-4AG0**	1795	97.3	0,88	350	11438	3,20	62.0	2000	1015	10832	97.2	0,87	360	9721	95.2	0,85	170	9213	93.0	0,79
	2150	**1NC1 566-4BR30-4CG0**	1795	97.4	0,88	350	11438	2,70	83.0	2000	1015	10833	97.2	0,87	360	9722	95.3	0,85	170	9215	93.4	0,80
6-pole: n_{sync} = 1200 rpm at - 60 Hz - 4160 V - const torque drive																						
	710	**1NC1 452-6BR30-4AG0**	1193	96.2	0,79	130	5683	2,10	26.0	2200	335	5381	95.6	0,80	120	4829	92.7	0,79	55	4577	89.0	0,75
	710	**1NC1 452-6BR30-4CG0**	1193	96.4	0,83	124	5683	2,40	34.0	2200	335	5384	95.7	0,83	120	4831	92.8	0,82	55	4579	89.3	0,77
	850	**1NC1 454-6BR30-4AG0**	1193	96.4	0,81	152	6804	2,10	30.0	2200	400	6442	95.7	0,81	140	5781	92.7	0,80	65	5479	89.2	0,76
	850	**1NC1 454-6BR30-4CG0**	1194	96.5	0,84	146	6798	2,30	39.0	2200	400	6444	95.8	0,83	140	5784	92.9	0,83	65	5482	89.4	0,78
	1060	**1NC1 456-6BR30-4AG0**	1193	96.5	0,81	188	8485	2,00	35.0	2200	500	8037	95.8	0,81	175	7213	92.9	0,81	85	6836	89.5	0,78
	1060	**1NC1 456-6BR30-4CG0**	1193	96.6	0,84	182	8485	2,20	46.0	2200	500	8037	95.9	0,84	175	7213	93.0	0,83	85	6836	89.7	0,80
	1000	**1NC1 500-6BR30-4CG0**	1195	96.8	0,86	166	7991	2,10	57.0	2100	470	7575	96.2	0,86	170	6798	93.5	0,86	80	6444	90.4	0,84
	1000	**1NC1 500-6BR30-4AG0**	1193	96.6	0,83	174	8004	2,20	44.0	2100	470	7587	95.8	0,84	165	6809	92.7	0,84	80	6453	89.2	0,82
	1120	**1NC1 502-6BR30-4AG0**	1193	96.8	0,83	194	8965	2,30	50.0	2100	530	8493	96.0	0,84	185	7622	93.0	0,84	90	7224	89.7	0,81

SIMOTICS HV C - 1NC1 IC416 4160 V / 60 Hz B3 (IM 1001) - VSD const torque																							
Rated power		**SIMOTICS HV C VSD const**	Operating values at rated output for utilization F/B								Constant-torque drive, speed range											
IEC		Article No.	Rated Speed	Effi-ciency	Power factor	Rated current at 4160 V	Rated Torque	Break-down Torque	Moment of Inertia	Mechanical speed limit	1:2				1:5				1:10			
155(F)	130(B)																					
P_{rated}	P_{rated}		n_{rated}	η	cos φ	I_{rated}	T_{rated}	T_B/T_R	J	n_{max}	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ	P_{max}	T_{max}	η	cos φ
kW	kW		rpm	%	[-]	A	Nm	[-]	kgm^2	rpm	kW	Nm	%	[-]	kW	Nm	%	[-]	kW	Nm	%	[-]
	1120	**1NC1 502-6BR30-4CG0**	1195	96.9	0,86	186	8950	2,20	65.0	2100	530	8480	96.4	0,86	190	7610	93.8	0,86	90	7213	90.9	0,83
	1250	**1NC1 504-6BR30-4AG0**	1194	96.9	0,85	210	9997	2,40	57.0	2100	590	9476	96.2	0,85	210	8505	93.3	0,85	100	8061	90.1	0,82
	1250	**1NC1 504-6BR30-4CG0**	1195	97.0	0,87	205	9989	2,30	74.0	2100	590	9460	96.5	0,87	210	8490	94.0	0,87	100	8047	91.3	0,84
	1380	**1NC1 506-6BR30-4AG0**	1194	96.9	0,85	235	11037	2,70	65.0	2100	650	10454	96.2	0,86	230	9382	93.4	0,85	110	8892	90.1	0,81
	1380	**1NC1 506-6BR30-4CG0**	1196	97.1	0,87	225	11018	2,50	83.0	2100	650	10437	96.5	0,87	230	9367	94.1	0,86	110	8878	91.2	0,83
	1550	**1NC1 562-6BR30-4CG0**	1195	97.1	0,87	255	12386	2,80	116.0	2000	730	11724	97.0	0,87	260	10522	94.9	0,87	120	9972	92.5	0,83
	1750	**1NC1 564-6BR30-4CG0**	1196	97.3	0,87	285	13973	2,70	132.0	2000	825	13236	97.1	0,88	295	11879	95.0	0,88	140	11259	92.7	0,84
	1950	**1NC1 566-6BR30-4CG0**	1196	97.4	0,87	320	15570	2,70	147.0	2000	920	14748	97.2	0,88	330	13236	95.0	0,88	155	12545	92.8	0,84
8-pole: n_{sync} = 900 rpm at - 60 Hz - 4160 V - const torque drive																						
	630	**1NC1 452-8BR30-4AG0**	893	96.0	0,78	116	6737	1,90	26.0	2200	295	6385	94.7	0,78	105	5730	90.5	0,78	50	5431	85.4	0,75
	630	**1NC1 452-8BR30-4CG0**	894	96.0	0,80	114	6729	2,00	35.0	2200	295	6381	94.9	0,81	105	5727	90.7	0,80	50	5428	85.8	0,76
	710	**1NC1 454-8BR30-4AG0**	893	96.2	0,78	132	7592	2,00	30.0	2200	335	7190	95.1	0,78	120	6453	91.2	0,78	55	6116	86.5	0,75
	710	**1NC1 454-8BR30-4CG0**	894	96.2	0,80	128	7584	2,10	39.0	2200	335	7187	95.2	0,81	120	6450	91.4	0,80	55	6113	86.9	0,76
	780	**1NC1 456-8BR30-4AG0**	894	96.3	0,79	142	8332	2,20	35.0	2200	365	7893	95.3	0,79	130	7084	91.5	0,79	60	6714	87.0	0,74
	780	**1NC1 456-8BR30-4CG0**	894	96.3	0,80	140	8332	2,20	46.0	2200	365	7889	95.4	0,80	130	7080	91.7	0,80	60	6711	87.3	0,75
	740	**1NC1 502-8BR30-4CG0**	895	95.9	0,85	126	7896	2,20	65.0	2100	350	7483	95.0	0,84	125	6716	91.8	0,83	60	6365	88.0	0,81
	740	**1NC1 502-8BR30-4AG0**	894	95.9	0,80	134	7904	1,80	50.0	2100	350	7488	94.9	0,80	125	6720	91.5	0,80	60	6369	87.5	0,78
	850	**1NC1 504-8BR30-4AG0**	895	96.1	0,81	152	9069	2,20	56.0	2100	400	8591	95.2	0,80	140	7710	92.1	0,79	65	7307	88.1	0,76
	850	**1NC1 504-8BR30-4CG0**	896	96.0	0,84	146	9059	2,60	73.0	2100	400	8584	95.2	0,84	140	7704	92.3	0,82	65	7302	88.5	0,78
	950	**1NC1 506-8BR30-4AG0**	895	96.2	0,81	170	10136	2,20	64.0	2100	450	9600	95.3	0,81	160	8616	92.3	0,80	75	8166	88.4	0,76
	950	**1NC1 506-8BR30-4CG0**	896	96.0	0,84	164	10125	2,60	83.0	2100	450	9593	95.4	0,84	160	8609	92.5	0,82	75	8160	88.8	0,78
	1120	**1NC1 562-8BR30-4CG0**	895	96.7	0,84	192	11950	2,30	115.0	2000	530	11315	96.3	0,85	185	10155	93.7	0,85	90	9625	90.7	0,81
	1250	**1NC1 564-8BR30-4CG0**	896	96.8	0,85	210	13322	2,40	132.0	2000	590	12625	96.4	0,85	210	11330	93.8	0,85	100	10739	90.8	0,81
	1400	**1NC1 566-8BR30-4CG0**	896	96.9	0,84	240	14921	2,60	147.0	2000	660	14129	96.6	0,85	235	12680	94.0	0,84	110	12019	91.1	0,79

Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
2-pole																			
1NC1 452-2BR30-4CG0	4725	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-2BR30-4CG0	5025	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-2BR30-4CG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
4-pole																			
1NC1 452-4BR30-4AG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BR30-4CG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BR30-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BR30-4CG0	5125	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BR30-4AG0	5325	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BR30-4CG0	5525	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BR30-4CG0	6175	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BR30-4AG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BR30-4AG0	6375	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BR30-4CG0	6575	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BR30-4AG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BR30-4CG0	6975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 560-4BR30-4CG0	7995	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 560-4BR30-4AG0	7695	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BR30-4CG0	8395	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BR30-4AG0	8095	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BR30-4AG0	8495	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BR30-4CG0	8795	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BR30-4AG0	8995	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BR30-4CG0	9295	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
6-pole																			
1NC1 452-6BR30-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BR30-4CG0	4825	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BR30-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BR30-4CG0	5025	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BR30-4AG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BR30-4CG0	5425	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BR30-4CG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BR30-4AG0	5775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BR30-4AG0	6075	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BR30-4CG0	6275	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BR30-4AG0	6475	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions																	
		A	AD	AD'	AE	AE'	AG	AG'	B	C	D	E	H	HB	HB'	HD	HD'	L	ML
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 4160 V / 60 Hz B3 (IM 1001) - Dimension drawings																			
1NC1 504-6BR30-4CG0	6675	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BR30-4AG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BR30-4CG0	7075	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-6BR30-4CG0	8595	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-6BR30-4CG0	9195	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-6BR30-4CG0	9795	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
8-pole																			
1NC1 452-8BR30-4AG0	4625	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BR30-4CG0	4725	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BR30-4AG0	4925	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BR30-4CG0	5025	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BR30-4AG0	5225	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BR30-4CG0	5425	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BR30-4CG0	6275	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BR30-4AG0	5975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BR30-4AG0	6375	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BR30-4CG0	6575	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BR30-4AG0	6775	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BR30-4CG0	6975	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-8BR30-4CG0	8595	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-8BR30-4CG0	9095	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-8BR30-4CG0	9695	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
4-pole													
1NC1 452-4BR34-4AG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-4BR34-4CG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BR34-4AG0	5600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-4BR34-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BR34-4AG0	6000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-4BR34-4CG0	6100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BR34-4CG0	7200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-4BR34-4AG0	7000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BR34-4AG0	7300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-4BR34-4CG0	7600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BR34-4AG0	7800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-4BR34-4CG0	8000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 560-4BR34-4CG0	9200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 560-4BR34-4AG0	8900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BR34-4CG0	9700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-4BR34-4AG0	9400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BR34-4AG0	9700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-4BR34-4CG0	10100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BR34-4AG0	10200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-4BR34-4CG0	10600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
6-pole													
1NC1 452-6BR34-4AG0	5300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-6BR34-4CG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BR34-4AG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-6BR34-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BR34-4AG0	5900	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-6BR34-4CG0	6100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BR34-4CG0	7000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 500-6BR34-4AG0	6800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BR34-4AG0	7100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-6BR34-4CG0	7300	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BR34-4AG0	7500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-6BR34-4CG0	7700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BR34-4AG0	7800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-6BR34-4CG0	8100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-6BR34-4CG0	9800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Motor type	Weight	Dimensions											
		AE	AG	D	HB	HD	L	LM	M	N	P	S	Z
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
SIMOTICS HV C - 1NC1 IC416 4160 V / 60 Hz V1 (IM 3011) - Dimension drawings													
1NC1 564-6BR34-4CG0	10500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-6BR34-4CG0	11100	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
8-pole													
1NC1 452-8BR34-4AG0	5200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 452-8BR34-4CG0	5400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BR34-4AG0	5500	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 454-8BR34-4CG0	5700	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BR34-4AG0	5800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 456-8BR34-4CG0	6000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BR34-4CG0	7200	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 502-8BR34-4AG0	7000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BR34-4AG0	7400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 504-8BR34-4CG0	7600	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BR34-4AG0	7800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 506-8BR34-4CG0	8000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 562-8BR34-4CG0	9800	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 564-8BR34-4CG0	10400	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.
1NC1 566-8BR34-4CG0	11000	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.	o.r.

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Published by
Siemens AG

Vogelweiherstr. 1-15
90441 Nuernberg
Germany

For the U.S. published by
Siemens Industry Inc.

100 Technology Drive
Alpharetta, GA 30005
United States

Produced in Germany
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