Nidec
All for dreams

DC MOTORS

GH225 GH250 GH280 GH315 GH355 GH400 GH450

DC MOTORS

1. GENERAL INFORMATION

GH 225-630 type machines are designed to meet and exceed the rigorous performance requirements of industrial applications. Their exemplary electrical and mechanical designs assure flawless operation in the most severe, heavy duty service.
All stator cores contain high performance electrical steel laminations, with compensating windings provided in main poles. The standard winding insulation system employs Class H materials, but standard performance is limited to Class F temperatures to extend machine life. Where required, size GH 225 can be supplied without compensation.
Mechanically, modular components are featured to allow the greatest flexibility to meet Customer's varied needs.
GH four-pole series of motors utilizes frames having seven shaft axis heights: 225, 250, 280, 315, 355, 400, and 450 mm.
GH six-pole series covers three shaft axis heights: 500, 560, and 630 mm.
While the usual mounting arrangement is horizontal foot mounted (IM B3 [code I] or IM 1001 [code II] in accordance with EN 60034-7) alternate arrangements are available on request. The factories are equipped with up-to-date machinery and modern manufacturing techniques for the production of the highest quality interchangeable parts.
The motors described in this catalogue cover a range of power output from 160 kW at 1500 rpm (1,019 kNm) [GH225SK] to 1800 kW at 500 rpm (34,38 kNm) [GH630ZK].

2. STANDARDS AND QUALITY

2.1. REFERENCE STANDARDS

The GH series of motors is designed and manufactured to comply with the International Standard IEC 34-1 and the CENELEC harmonized standards EN 60034 and HD53 for European countries. In particular, the ratings and performance characteristics are in full compliance with EN 60034-1.
Upon request, motors can be supplied to meet the performance requirements of other standards (e.g. NEMA MG-1).

2.2. CE MARKING

GH series machines are manufactured in conformance to European Directive 73/23/EEC mod. 93/68/EEC (LVD) and meet the essential protective requirements specified in the European Directive 89/336/EEC (EMC) mod. 92/31/EEC and 93/68/EEC. The “CE” mark is applied to each machine to certify compliance with these directives.

2.3. QUALITY SYSTEM

The Quality System of NIDEC ASI S.p.A. covers the design, manufacturing and testing of DC machines. Related activities, such as procurement, component quality verification, project management and customer service, are also included within the system’s comprehensive scope.
This Quality System is certified by CISQ/RINA (certification n. 50/92) – EQNet (Registration n. IT-2624) to comply with European standards UNI-EN 29001 (ISO 9001).

3. IDENTIFICATION CODE

	GH	355	P	K
1 Machine series				
2 Frame size (shaft height in mm)				
3 Armature core length identification				
4 Machine with compensating winding (if present)				

4. DESIGN FEATURES

4.1. ROTOR

The armature core is made up of preinsulated steel laminations, and is heatshrunk on the shaft to obtain rigid mechanical integrity. Armature windings are manufactured from preinsulated copper rectangular wire having a Class H enamel coating or enamel covered with glass yarn. Ground insulation is NOMEX®.
Wave or frog-leg armature winding patterns are employed according to the customer's requirements for electrical performance. Commutation capability of the motor can be improved considerably where a frog-leg type arrangement is used instead of lap winding. The armature coil leads are secured to the commutator by means of TIG welding system. Armature winding end turns are supported by special metallic or insulated rings and anchored by pre-impregnated fiberglass bandings. After assembly of the winding, the complete rotor is impregnated with Class H resin, using a Vacuum Pressure Impregnation (VPI) system and oven cured for polymerization. Additionally, a second impregnation with Class H resin is performed in open tank, followed by oven cure (polymerization).

4.2. COMMUTATOR

The commutator is designed to have an overspeed capability greater than that required of the motor. To ensure long term operational stability, these components are mechanically rotated and thermally aged prior to being secured to the shaft by an interference fit.

4.3. STATOR

The magnetically active stator core component, main and commutating poles are fully laminated to provide for rapid response times to transients in load or speed.
During assembly these laminations are hydraulically compressed under tons of pressure, then bound to form a rigid, stable assembly. Stator coils are formed from Class H insulated copper wire, and include NOMEX® ground wall insulation materials.
These coils are bonded to the pole cores with special epoxy resins and interconnected with flexible cables. These cables are braced with high strength, extreme temperature tolerant lacing material.
After completion, stator assembly is Vacuum Pressure Impregnated (VPI) with Class H resin and cured in a temperature controlled oven. For severe applications where high humidity, carbon dust or abrasive material is encountered, an additional highbuild resin coating is applied by immersion and thermal catalyzation.

4.4. BRUSHHOLDER YOKE

Designed for strength and stiffness, the brush yoke is mounted to the mechanically rigid end shield. This yoke supports the brush holders, and allows individual adjustment of the brushes for optimal neutral zone alignment. Such design also incorporates sensitivity for the 1% positioning required for tough bi-directional rotating applications.
The brushes are split type, and are manufactured from high quality electrographitic grade material. The brushes are selected to consider the motor rating, application and environmental conditions.

4.5. BEARINGS

Tables 1 and 2 list the standard bearings furnished with each motor frame. These bearings are sized in accordance with the largest rated torque for that frame size, regardless of the length of the machine, to provide for lower bearing temperatures, improved vibrational stability and improved bearing life. In horizontal, direct coupled use, the B10 life is in excess of 40,000 hours, and 20,000 hours for belted applications.
Bearing seals are provided for totally enclosed motors having an IP 55 degree of protection.
Figures 1 and 2 illustrate the bearing arrangement for both the drive and non-drive end.

4. DESIGN FEATURES

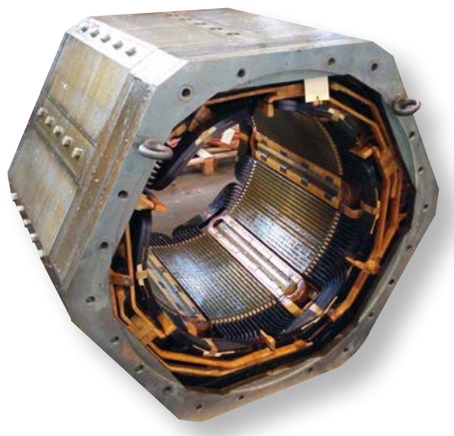
TABLE 1
Bearings for GH Series (4 poles)

FRAME	OPPOSITE DRIVE END				DRIVE END					
					ELASTIC COUPLING				BELT COUPLING	
	B3-B5	Grease g	**V1-V3**	Grease g	**B3-B5**	Grease g	**V1-V3**	Grease g	**B3-B5-V1-V3**	Grease g
GH 225	6217 2Z C3	-	6217 2Z C3	-	6218 2Z C3	-	6218 2Z C3	-	NU 218 ECP C3	25
GH 250	6217 2Z C3	-	6217 2Z C3	-	6218 2Z C3	-	6218 2Z C3	-	NU 218 ECP C3	25
GH 280	6219 C3	30	7219 BE	30	6221 C3	35	6221 C3	35	NU 221 ECJ C3	35
GH 315	6221 C3	35	7221 BE	35	6222 C3	40	6222 C3	40	NU 222 ECJ C3	40
GH 355	6224 C3	45	7224 B	45	6224 C3	45	6224 C3	45	NU 224 ECJ C3	45
GH 400	6228 C3	55	7228 B	55	NU 228 ECM C3	55	6228 M C3	55	NU 228 ECM C3	55
GH 450	6232 M C3	70	7232 BCB	70	NU 232 ECM C3	70	6232 M C3	70	NU 232 ECM C3	70

4. DESIGN FEATURES

TABLE 2
Bearings for GH Series (6 poles)

FRAME	SHAFT	OPPOSITE DRIVE END				DRIVE END					
						ELASTIC COUPLING				BELT COUPLING	
		B3-B5	Grease g	**V1-V3**	Grease g	**B3-B5**	Grease g	**V1-V3**	Grease g	**B3-B5-V1-V3**	Grease g
GH 500	ø150	6232 M C3	70	7232 BCB M	70	NU232 EC M C3	70	6232 M C3	70	NU232 EC M C3	70
	ø170	6236 M C3	83	7236 BCB M	83	NU236 EC M C3	83	6236 M C3	83	NU236 EC M C3	83
GH 560	ø170	6236 M C3	83	-	-	NU236 EC M C3	83	-	-	NU236 EC M C3	83
	ø190	NU1040 M C3 + 6040 M C3	160	-	-	NU1040 M C3	80	-	-	NU1040 M C3	80
GH 630	ø170	6236 M C3	83	-	-	NU236 EC M C3	83	-	-	NU236 EC M C3	83
	ø190	NU1040 M C3 + 6040 M C3	160	-	-	NU1040 M C3	80	-	-	NU1040 M C3	80
	ø210	NU1044 M C3 + 6044 M C3	190	-	-	NU1044 M C3	95	-	-	NU1044 M C3	95



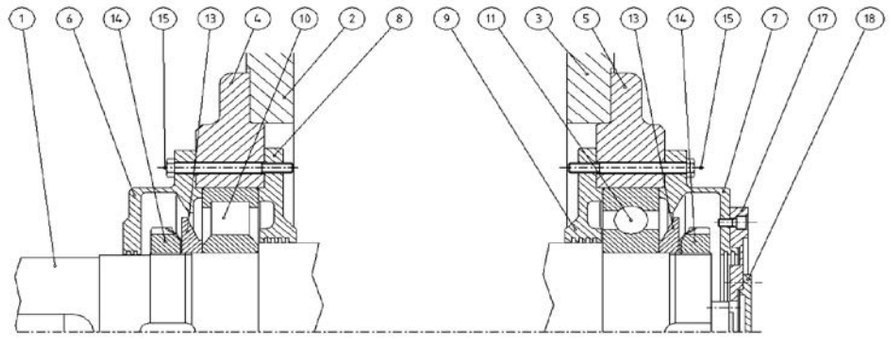
4. DESIGN FEATURES

FIGURE 1
Bearing assembly

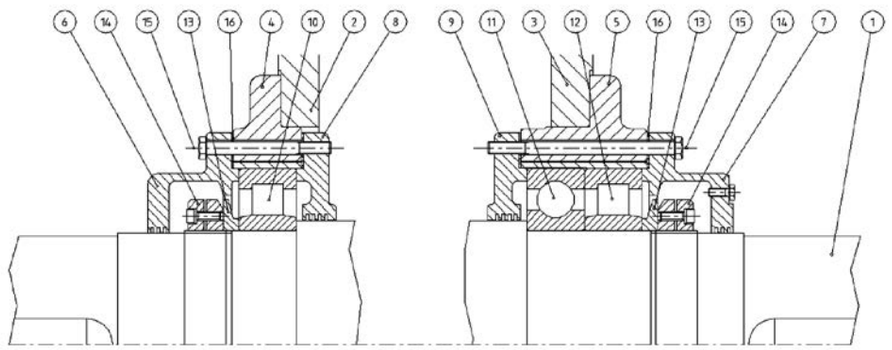
1 Shaft
2 Drive end bearing
3 Drive end endshield
4 Drive end inner bearing cap
5 Drive end outer bearing cap
6 Grease fitting position
7 Drive end bearing grease dispenser
8 Bearing locknut
9 Washer
10 Opposite drive end bearing
11 Opposite drive end endshield
12 Opposite drive end inner bearing cap
13 Opposite drive end outer bearing cap
14 Opposite drive end bearing grease dispenser
15 Preloading spring
16 Opposite drive end bearing shoulder ring

4. DESIGN FEATURES

FIGURE 2
Bearing assembly (Size GH500-630)



GH500-GH630
(shaft end
Ø150-170 mm)



GH560-GH630
(shaft end
Ø190-210 mm)

1	Shaft	10	Drive end bearing (roller)
2	Drive end endshield	11	Opposite drive end endshield (ball)
3	Opposite drive end endshield	12	Opposite drive end bearing (roller)
4	Drive end hub	13	Grease valve
5	Opposite drive end hub	14	Ferrule
6	Drive end outer bearing cap	15	Grease fitting position
7	Opposite drive end outer bearing cap	16	Insulator disc (only GH630 IM 1002)
8	Drive end inner bearing cap	17	Accessories support flange
9	Opposite drive end inner bearing cap	18	Opposite drive end closing cap

4. DESIGN FEATURES

4.6. BELTED AND RADIAL THRUST APPLICATION

Power transmission components (pulleys, sheaves and belts) must be designed and selected in accordance with the manufacturers recommendations. Once the motor side pulley or sheave has been selected, the allowable radial (side) thrust load must be within the values listed in Table 3 for ball bearings or Table 4 for roller bearings (for other cases, please contact Nidec ASI).

TABLE 3

ALLOWABLE RADIAL THRUST ON BALL BEARINGS (N)										
SIZE	BEARING	SPEED [RPM]								MAXIMUM SPEED [RPM]
		400	600	1000	1500	2000	2500	3000	4000	
GH225	6218-2Z	12200	11500	10650	9700	9100	8650	8300	-	3000
GH250	6218-2Z	12200	11500	10650	9700	9100	8650	-	-	2800
GH280	6221	17300	16300	1500	13800	12900	12300	-	-	2600

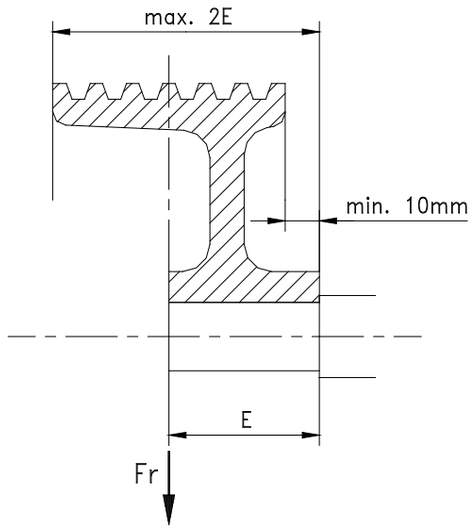
TABLE 4

ALLOWABLE RADIAL THRUST ON ROLLER BEARINGS (N)										
SIZE	BEARING	SPEED [RPM]								MAXIMUM SPEED [RPM]
		400	600	1000	1500	2000	2500	3000	4000	
GH225	NU 218 ECP	24800	24500	23330	21600	20200	19200	18500	-	3000
GH250	NU 218 ECP	24800	24500	23330	21600	20200	19200	-	-	2800
GH280	NU 221 ECP	36800	36000	33500	31300	29700	28500	-	-	2600

It is necessary that pulley length be no more than twice shaft end length, whereas an air gap of about 10 mm has to be kept between the pulley and motor end shield (bearing bracket).

4. DESIGN FEATURES

Radial thrust can be obtained from the equation below:



$$Fr = 19.5 \times 10^6 \times \frac{P}{n \times D} \times K$$

Fr = radial thrust (N)
P = rated motor power (kW)
n = motor speed (rpm)
D = pulley diameter (mm)
K = tension factor (given by the pulley manufacturer)

If K is not available, use as approximate assumption:

K = 3,5 ÷ 4 for flat leather belts

K = 2,2 ÷ 2,5 for V-belts or for high adhesion belts

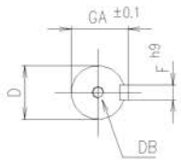
If the radial thrust so obtained is higher than the value specified in the tables, roller bearings or special bearings must be used, or the pulley diameter must be increased.

5. CONSTRUCTION FEATURES

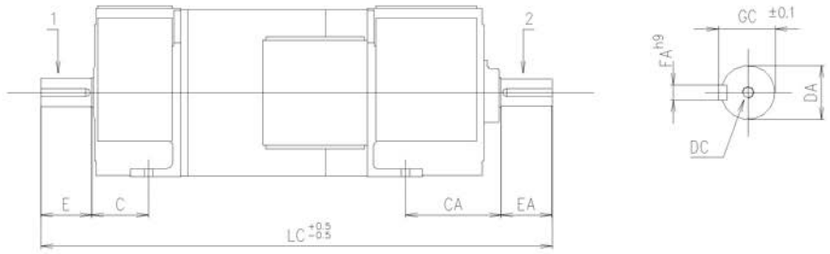
5.1. COUPLING AND SHAFT EXTENSION

Standard machines are furnished with one drive end extension which is cylindrical with a keyway (IM 1001). On request, machines are available with two shaft extensions (IM 1002) for a tandem arrangement, and the shaft end dimensions may be of different size from the standard solution and are shown in Table 5.
Unless otherwise specified, standard machines are designed for direct drive using flexible type couplings.

Shaft extension 1



Shaft extension 2



* Please enquire the manufacturer NIDEC ASI

Dimensions without tolerance UNI ISO 2768 - c

5. CONSTRUCTION FEATURES

TABLE 5
Machines (GH225-450) with two shaft extensions (IM 1002)

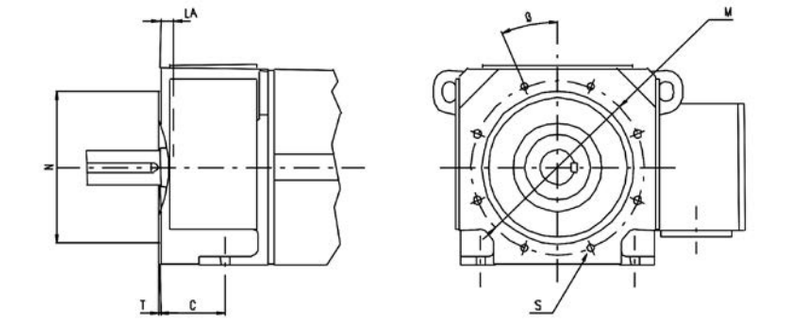
TYPE	SIZE	LC	C	E	D	F	GA	DB	CA	EA	DA	FA	GC	DC
GH225	S	1365	149	170	80M6	22	85	M20X40	221	170	80M6	22	85	M20X40
	M	1415												
	L	1460												
	P	1510												
	X	1560												
GH250	M	1569	168	170	85M6	22	90	M20X40	251	170	80M6	22	85	M20X40
	L	1629												
	X	1709												
GH280	S	1710	190	170	95M6	25	100	M20X40	320	170	90M6	25	95	M20X40
	M	1760												
	L	1810												
	P	1870												
GH315	M	2067	216	210	110M6	28	116	M20X50	471	210	100M6	28	106	M20X50
	L	2117												
	P	2177												
	X	2247												
GH355	S	2195	254	250	130M6	32	137	M24X65	521	210	110M6	28	116	M20X50
	M	2245												
	L	2305												
	P	2375												
GH400	M	2400	280	250	130M6	32	137	M24X65	500	250	130M6	32	137	M24X65
	L	2480												
	P	2570			*	*	*							
GH450	M	2490	315	250	150M6	36	158	M42X80	315	250	150M6	36	158	M42X3X80
	L	2550												
	P	2720		300	170M6	40	179			300	170M6	40	179	
	X	2800												
	Y	2890												

5. CONSTRUCTION FEATURES

5.2. MOUNTING ARRANGEMENT

Machines are furnished in accordance with EN 60034-7 standard mounting arrangement IM B3 (code I) or IM 1001 (code II). Vertical machines in the IM V1 (code I) or IM 3011 (code II) mounting arrangement and those shown in Figure 3 are available upon request.
For the IM B5 or IM 3001 arrangement, the mounting flange holes and dimensions are shown in Table 6.

TABLE 6
Machines with im B5 mounting arrangement

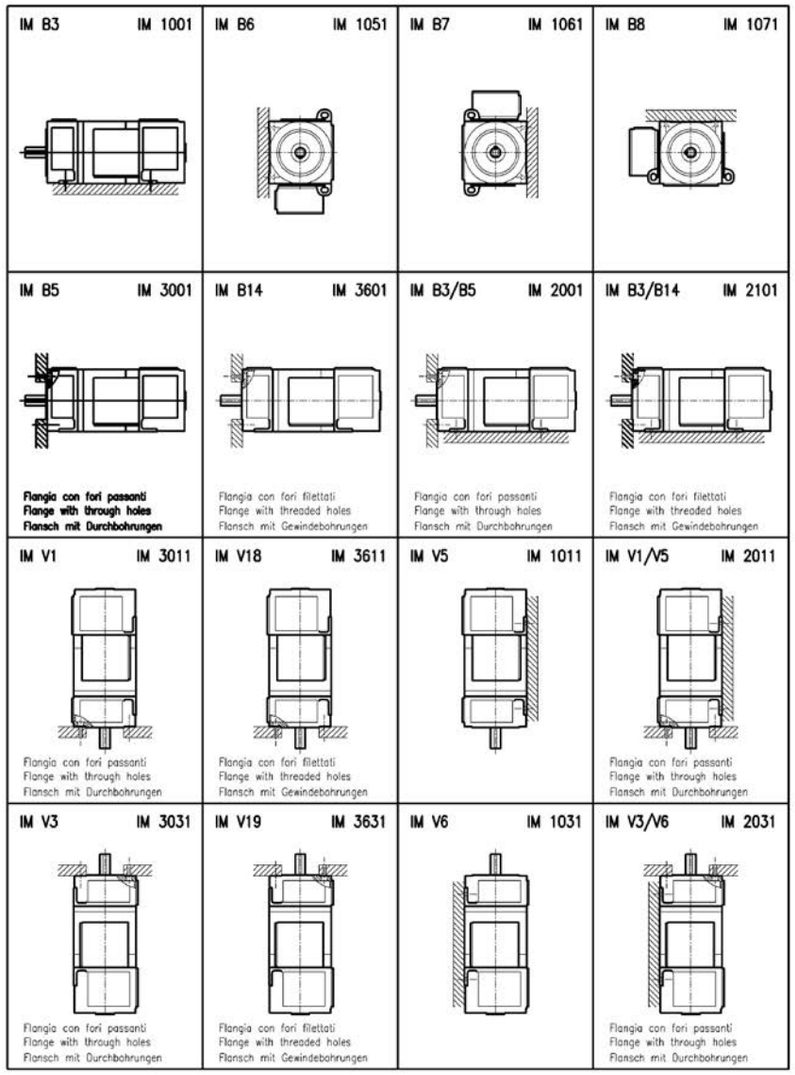


* Deve essere in forma costruttiva IM2001 (B3/B5)
Only in mounting arrangement IM2001 (B3/B5)
Nur für Bauform IM2001 (B3/B5)

Quote senza indic. di tolleranza
Dimensions without tolerance
Abmessungen ohne toleranzangabe
UNI ISO 2768 - m

TYPE	C	N	T	M	S	ß	LA
GH225	149	350J6	5	400	8 X Ø18	22.5°	20
GH250 *	168	350J6	5	400	8 X Ø18	22.5°	20

FIGURE 3
Main Mounting Arrangements



5. CONSTRUCTION FEATURES

5.3. DEGREE OF PROTECTION

Machines are normally furnished with one of the following degrees of protection, in accordance with EN 60034-5:
IP 23: Protected machine
IP 44: Enclosed machine

Other enclosures or more restrictive degrees of protection are available on request.

5.4. COOLING METHOD

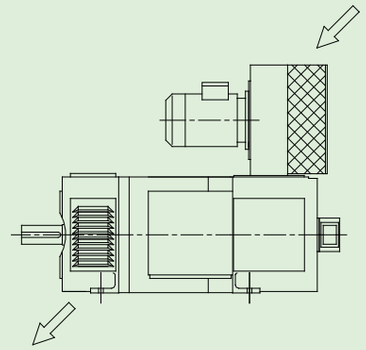
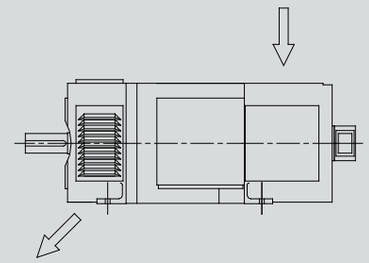
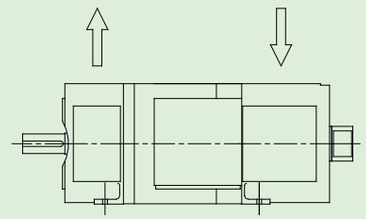
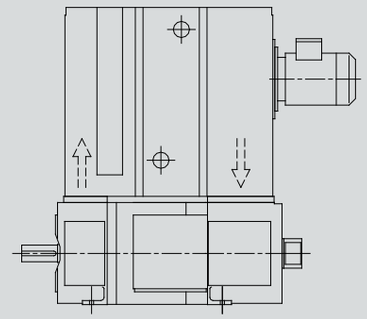
The various standard cooling methods are listed in Table 7. Cooling method IC666 (air-to-air heat exchanger with primary and secondary air blowers) or IC410 (enclosed machine, not ventilated) require special handling by the factory (Table 8).
Normal environmental conditions according to EN 60034-1:

- altitude: 0 ÷ 1000 m above sea-level;
- temperature: -15°C ÷ +40°C;
- humidity: not less than 5 g/m³ in absolute value, not more than 90% in relative value;
- cooling air: free of dust, oils, or aggressive gases such as, in particular, ammonia, chlorine, sulfur and silicon.

Applications using water-to-air heat exchangers may require special handling due to water temperatures or non-fresh water sources.

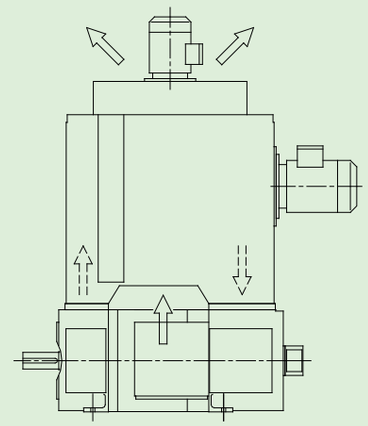
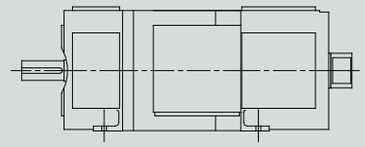
5. CONSTRUCTION FEATURES

TABLE 7
Standard cooling methods

TIPO DI RAFFREDDAMENTO EN 60034-6	GRADO DI PROTEZIONE EN 60034-5	DESCRIPTION	
IC06	IP 23	SEPARATE VENTILATION USING A MOTOR-DRIVEN BLOWER MOUNTED ON THE OPPOSITE DRIVE END ENDSHIELD	
IC17	IP 23	SEPARATE VENTILATION FROM AN AIR DUCT CONNECTED TO THE OPPOSITE DRIVE END	
IC37	IP 44	SEPARATE VENTILATION FROM AIR DUCTS CONNECTED TO BOTH ENDS. AIR INLET ON THE OPPOSITE DRIVE END	
IC86W	IP 44	TOTALLY ENCLOSED WITH AIR TO WATER HEAT EXCHANGER	

5. CONSTRUCTION FEATURES

TABLE 8
Special cooling methods

TIPO DI RAFFREDDAMENTO EN 60034-6	GRADO DI PROTEZIONE EN 60034-5	DESCRIPTION	
IC666	IP 44	TOTALLY ENCLOSED WITH AIR TO AIR HEAT EXCHANGER	
IC410	IP 44 / IP 55	TOTALLY ENCLOSED NON VENTILATED	

5. CONSTRUCTION FEATURES

5.4.1. COOLING METHOD IC06 WITH BLOWER MOUNTED ON THE MOTOR (PVA)

For frames 225 through 450 the blower assembly is normally mounted on the non-drive end shield.
Frames 500 and 630 have the blower assembly mounted on the drive end shield.
Blower assemblies are always furnished with a filter.
The blower motor kW ratings are listed in Table 9, with the normal power supply of 400 V, 3 Ph, 50 Hz. Other voltages and frequencies may be available upon request.

TABLE 9
Blower motor power (50 Hz)

SIZE	GH225	GH250	GH280	GH315	GH355
POWER [KW]	2.2	3.0	5.5	5.5	7.5

SIZE	GH400	GH450	GH500	GH560	GH630
POWER [KW]	7.5	9.2	9.2	11.0	11.0

5.4.2. COOLING METHOD IC17 AND IC37 WITH AIR DUCTS (PVB AND CVB)

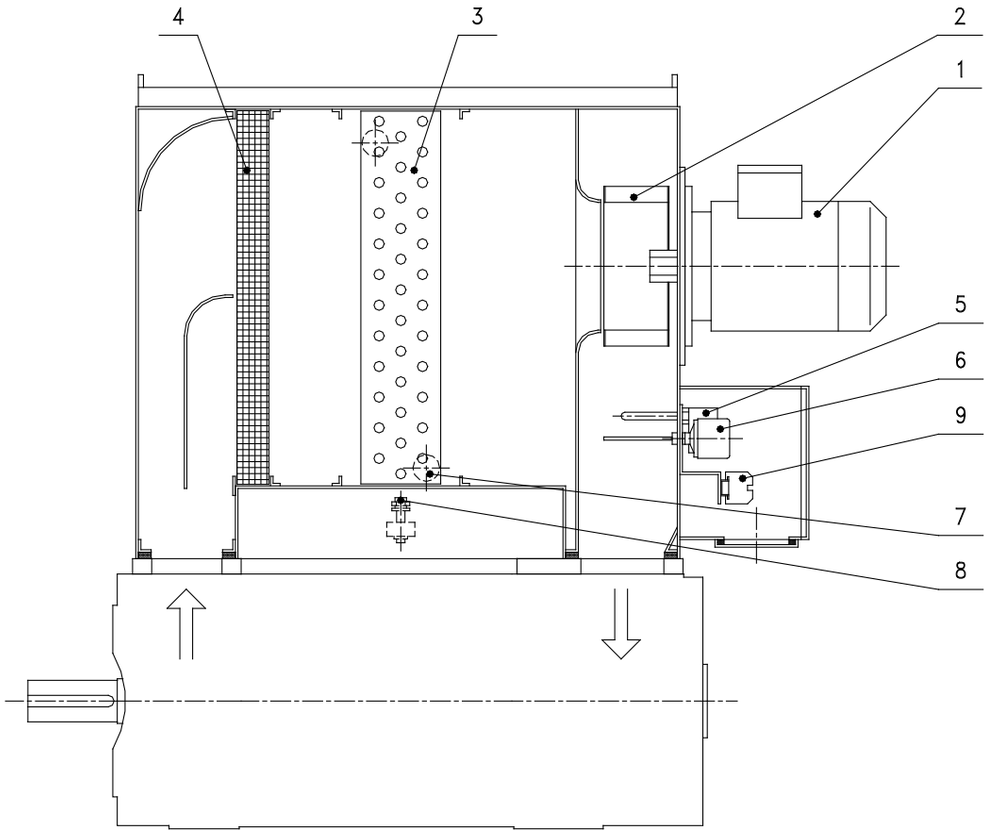
When cooling air is supplied from separate ventilation ducts (provided by the Customer), the required air flow and expected pressure drop across the motor are listed in Table 10.

TABLE 10
Ventilation data

FRAME	AIR FLOW [m³/min]	INTERNAL PRESSURE DROP OF THE MACHINE	
		IC17 [Pa]	IC37 [Pa]
GH225	50	1400	1300
GH250	70	1400	1300
GH280	85	2050	1950
GH315	120	1800	1700
GH355	140	2050	1950
GH400	180	1600	1500
GH450	220	1250	1150
GH500	260	1200	1200
GH560	320	1200	1200
GH630	380	1200	1200

5. CONSTRUCTION FEATURES

FIGURE 4
Air to water heat exchanger (4-pole GH motors)



1 Blower motor
2 Blower impeller
3 Air to water heat exchanger
4 Air filter
5 Thermostat
6 Internal air circulation switch
7 Water flow detector
8 Water leak detector
9 Terminal box

5. CONSTRUCTION FEATURES

5.4.3. COOLING METHOD IC86W, TOTALLY ENCLOSED WATER-TO-AIR COOLED (TEWAC)

The air-to-water heat exchanger, available for fresh water, is of simple tube type with finned tube bundles. The tubes are made of copper and the fins of anticorodal. A motor-driven centrifugal blower circulates the internal air through the motor and then through the finned heat exchanger.
All standard air-to-water heat exchangers are normally provided with a filter for the internal air and provided with the following accessories:

- water flow indicator (connected on water inlet pipe) with electric contacts;
- water leak detector with electric contacts;
- internal air flow indicator with electric contacts;
- air thermostat with electric contacts;
- inlet and outlet water block valves (pipe thread connection, flanged alternate).

As an alternate it is possible to limit the accessories to the air thermostat only.
The water supply system must be connected to the heat exchanger through flexible pipes to avoid the transmission of vibrations. The above mentioned heat exchangers are built for fresh water only. In addition the water hardness should not exceed 15 French degrees. Other special heat exchangers may be supplied for particular water types (seawater, dirty or acid water, etc.).
The standard heat exchanger is designed for an inlet water temperature of 30°C and a temperature difference between inlet and outlet of about 3-4 K. The rated water pressure is 500 kPa (5 bar) and the test pressure is 1000 kPa (10 bar).
The normal pressure drop in the water circuit is about 50 kPa (500 mbar).
Figure 4 shows a cross-section drawing of an air to water heat exchanger. In sizes GH 500-630 (6 poles motor) the internal air circulates in the opposite direction (cold air entering the motor on drive end).
The blower motor power ratings at 50 Hz are given in Table 11.
The accessories terminal markings are shown on Figure 6.

TABLE 11
Blower motor power for air to water heat exchangers (50 Hz)

SIZE	GH225	GH250	GH280	GH315	GH355
POWER [KW]	4.0	4.0	5.5	7.5	9.2

SIZE	GH400	GH450	GH500	GH560	GH630
POWER [KW]	15.0	15.0	11.0	11.0	18.5

5.4.4. COOLING METHOD IC666, AIR-TO-AIR COOLED (TEAAC)

Use of an air-to-air heat exchanger requires consultation with the manufacturer for proper application and design. Standard heat exchangers consist of aluminum alloy tubes (< 0.2% copper), steel tube sheets and a fabricated steel plate housing.
This assembly is mounted to the machine frame, and is provided with two blowers. One blower, mounted on the opposite drive end of the machine (GH225-450) or on the drive end of the machine (GH500-630), circulates internal air through the tube bundle. A second blower, mounted on the top of the assembly, moves external air up through the heat exchanger tubes. A washable filter is mounted in the air duct assembly at the hot air entrance.
The following accessories are provided:

- internal air flow indicator with electric contacts;
- external air flow indicator with electric contacts
- air thermostat with electric contacts.

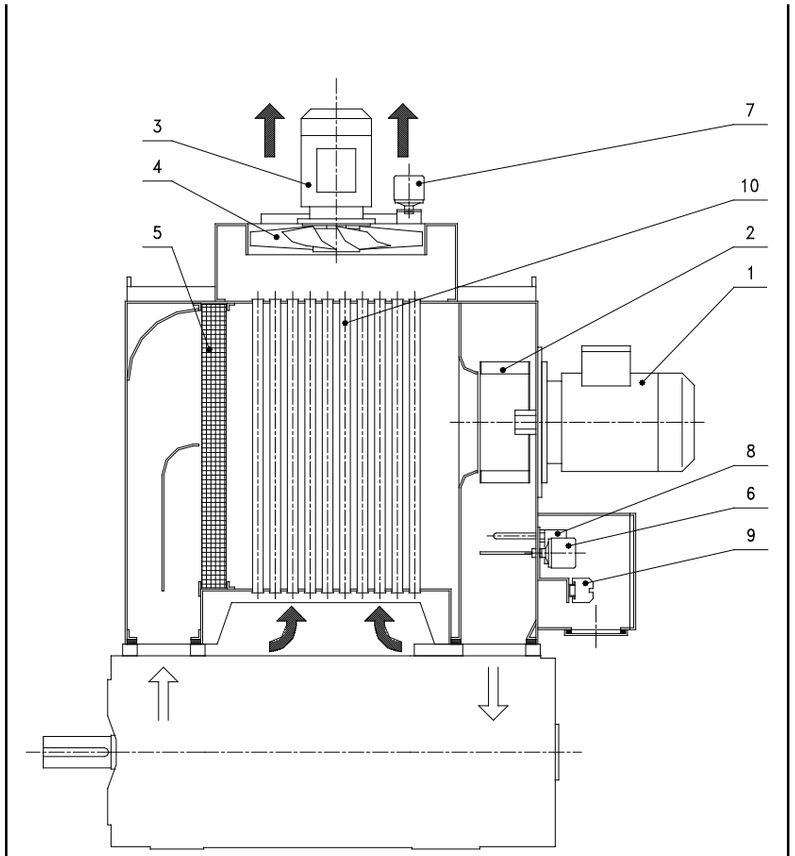
Other accessories are available on request.
Figure 5 shows a sectional view of a TEAAC machine.
Terminal markings for the accessory devices are shown in Figure 7.

Nidec
All for dreams

DC MOTORS

5. CONSTRUCTION FEATURES

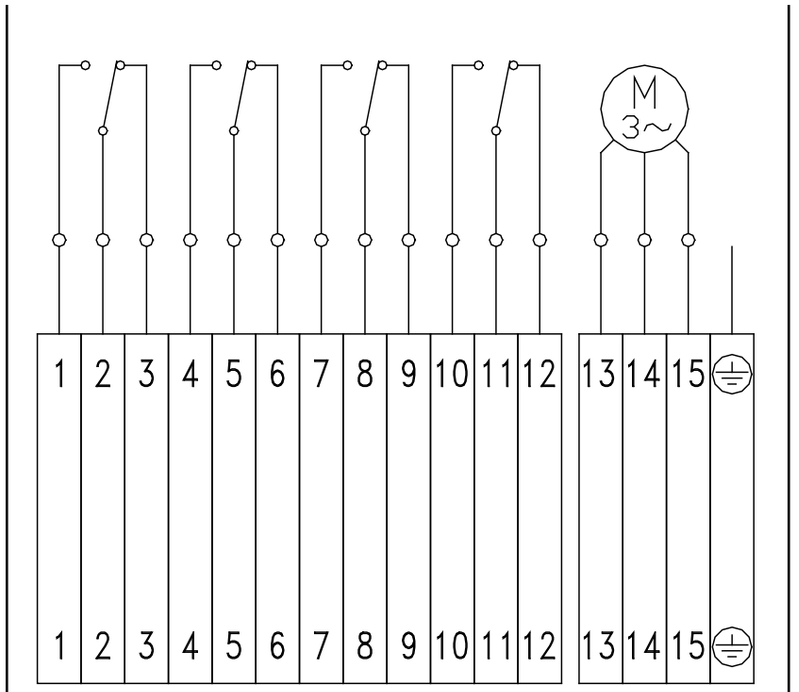
FIGURE 5
Air-to-air heat exchanger (4-pole GH motors)



1 Internal air flow blower motor
2 Internal air flow blower impeller
3 External air flow blower motor
4 External air flow blower impeller
5 Filter
6 Internal air flow circulation switch
7 External air flow circulation switch (on request)
8 Thermostat
9 Terminal box
10 Air-to-air heat exchanger

5.4.5. 5.4.5 COOLING METHOD IC410 (CNV)
Enclosed Machine with protection degree between IP 44 and IP 55, without internal and external air heat exchanger.
Cooling systems by natural convection: the heat is dissipated through the machine. This cooling method requires consultation with the manufacturer for proper application and design.

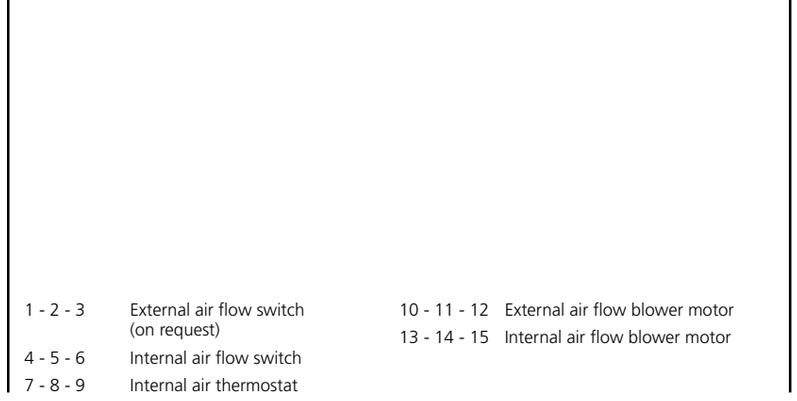
FIGURE 6
Connection diagram of air-to-water heat exchanger



1 - 2 - 3 Water leak detector
4 - 5 - 6 Water flow detector
7 - 8 - 9 Internal air circulation switch
10 - 11 - 12 Air thermostat
13 - 14 - 15 Blower motor

5. CONSTRUCTION FEATURES

FIGURE 7
Connection diagram of air-to-air heat exchanger



1 - 2 - 3 External air flow switch (on request)
4 - 5 - 6 Internal air flow switch
7 - 8 - 9 Internal air thermostat
10 - 11 - 12 External air flow blower motor
13 - 14 - 15 Internal air flow blower motor

5.5. MAXIMUM ALLOWABLE SPEEDS

Table 12 lists the maximum allowable operating speeds, maximum mechanical speeds and maximum overspeeds for 4 pole machines [1].

TABLE 12
Maximum allowable speeds

SIZE	MAXIMUM OPERATING SPEED (*) [rpm]	MAXIMUM MECHANICAL SPEED [RPM]	OVERSPEED [RPM]
GH225	3000	3000	3450
GH250 M, L	2800	2800	3300
GH250 X	2700	2700	3100
GH280	2600	2600	3050
GH315 M, L, P	2400	2400	2800
GH315 X	2300	2300	2600
GH355 S, M, L	2200	2200	2650
GH355 P	2100	2100	2350
GH400 M, L	2000	2000	2400
GH400 P	1900	1900	2250
GH450 M, L, P	1800	1800	2160
GH450 X	1700	1700	2050
GH450 Y	1600	1600	1950

(*) With 160% maximum load and 1:2 maximum speed range by field control.

1 This product catalogue excludes the performance of 6 pole machines, so in case you need to make assessments on the maximum allowable speed for a motor GH 500-560-630 it is recommended to ask for a verification to the technical office of Nidec ASI.

5. CONSTRUCTION FEATURES

5.6. NOISE LEVEL

Motor noise levels are evaluated on the weighted A scale basis, by either the Sound Pressure Level L_p, or the Sound Power Level L_w, and are measured in accordance with ISO 1680/1. Standard machine noise levels comply with the limits of EN 60034-9. Machines with reduced noise levels can be furnished upon request.

5.7. VIBRATIONS AND BALANCING

Where the shaft extension includes a keyway, rotor balancing is performed with a half key secured in the slot. Otherwise, the rotor is balanced without the half coupling, pulley or other device mounted. Any component added to the rotor after this must be independently balanced.
All machines comply EN 60034-14 and CENELEC HD 53.14.51 with vibration level *"A"* for all frames. On request, the motors may be supplied in compliance with level *"B"* (special).
Motor vibration levels are listed in Table 13, with a tolerance of +10%. These values are applicable also where the operating speed of the motor exceeds the maximum speed listed in the table (CENELEC HD 53.14.51).

TABLE 13
Limits of maximum vibration magnitude (in displacement, velocity and acceleration)

VIBRATION GRADE	SHAFT HEIGHT, H [mm]	$56 \le H \le 132$			$132 < H \le 280$			$H > 280$		
	MOUNTING	DISPLAC.	VEL.	ACC.	DISPLAC.	VEL.	ACC.	DISPLAC.	VEL.	ACC.
		µm	mm/s	m/s²	µm	mm/s	m/s²	µm	mm/s	m/s²
A	FREE SUSPENSION	25	1.6	2.5	35	2.2	3.5	45	2.8	4.4
	RIGID MOUNTING	21	1.3	2.0	29	1.8	2.8	37	2.3	3.6
B	FREE SUSPENSION	11	0.7	1.1	18	1.1	1.7	29	1.8	2.8
	RIGID MOUNTING				14	0.9	1.4	24	1.5	2.4

5. CONSTRUCTION FEATURES

5.8. CONDUIT BOX

Terminal box, usually supplied for all motor frames, is manufactured in IP 55 protection, and it is normally mounted on motor right side, seeing from drive end; position on the left is always possible, whereas position on motor top generally requires a confirmation by Nidec ASI, based on motor frame.
Terminal box position cannot be the same as blower position; for motors with air-to-water heat exchanger, standard position for terminal box is opposite to water connections.
Terminal box is usually supplied closed; on request it is possible to have it provided with cable glands.
Terminal box types are shown in Figure 8 and Figure 9, for four-pole and six-pole machines respectively; terminal end markings are shown in Table 14. On request different solutions can be adopted (for example, execution with free cable ends).

5.9. GROUD TERMINALS

To ground the machine, two terminals are provided with threaded holes and screws. One terminal is available in the conduit box; the other is on the frame near the box, complete of identification nameplate.

TABLE 14
Terminal head markings

MARKING ACCORDING TO IEC 60034-8		DESCRIPTION
A1	A2	ARMATURE WINDING (ROTOR)
B1	B2	COMMUTATING POLES WINDING
C1	C2	COMPENSATING WINDING
D1	D2	SERIES EXCITATION WINDING
E1	E2	SHUNT EXCITATION WINDING
F1	F2	SEPARATE EXCITATION WINDING

FIGURE 8
Terminal box for 4-pole GH machines

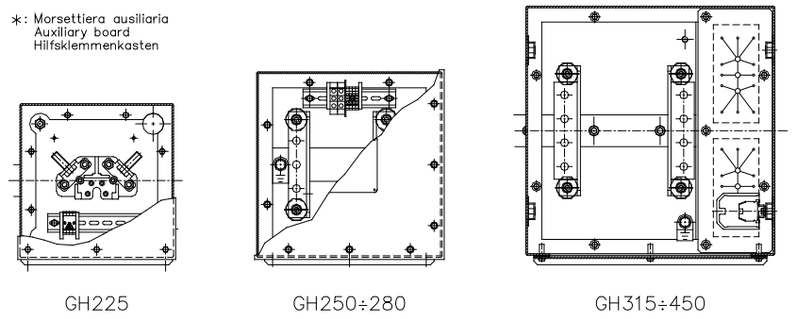
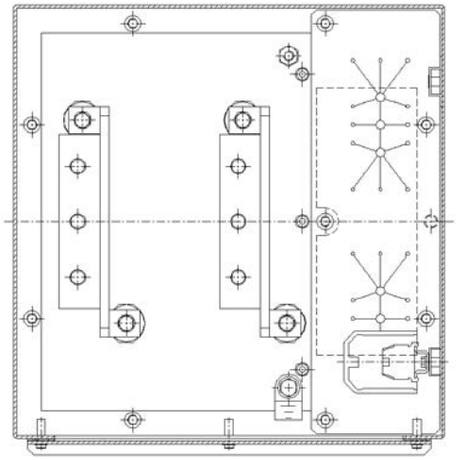


FIGURE 9
Terminal box for GH500-630 machines

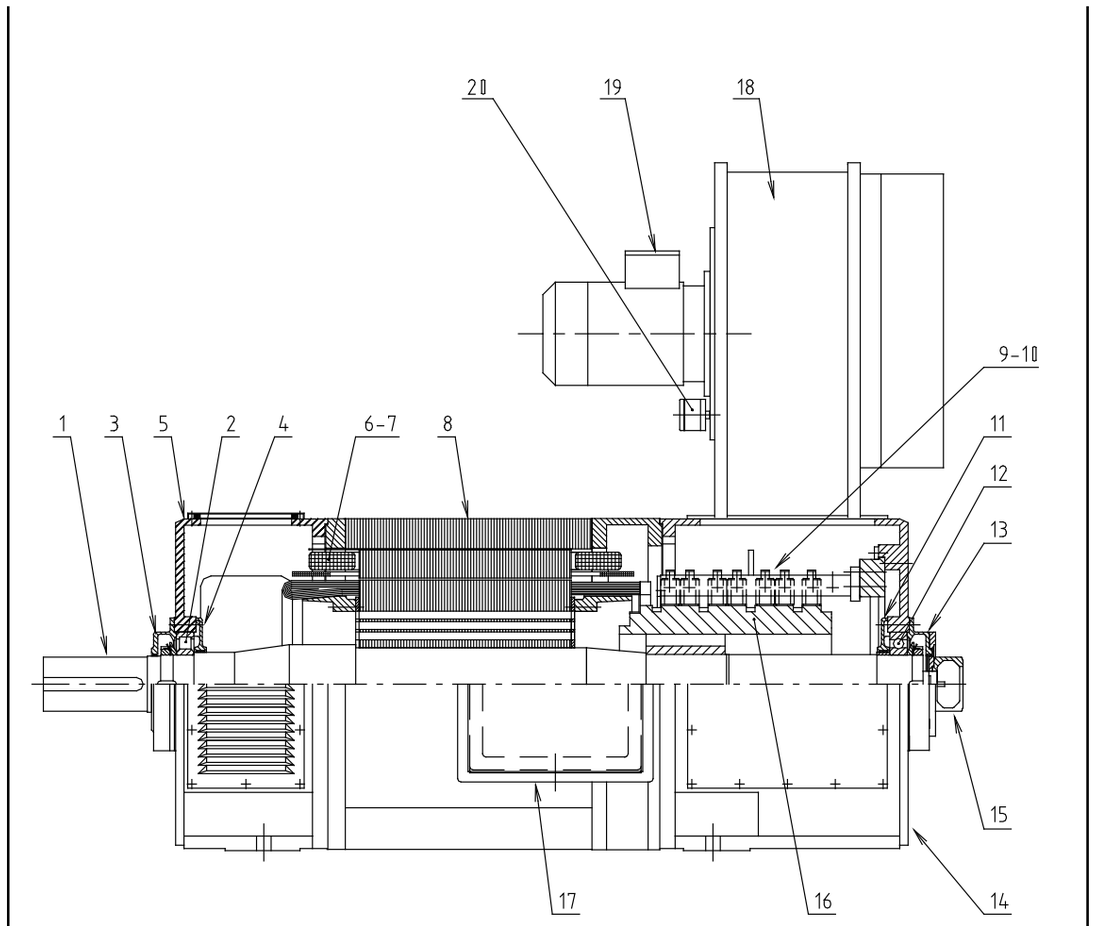


5. CONSTRUCTION FEATURES

5.10. CROSS-SECTION DRAWING

A typical sectional assembly drawing for frames GH225-450 is shown in Figure 10.

FIGURE 10
Sectional view of a GH series motor (4 poles)



1 Shaft	6 Main pole coils	11 Opposite drive end inner bearing cap	16 Commutator
2 Drive end bearing	7 Commutating pole coils	12 Opposite drive end bearing	17 Conduit box
3 Drive end outer bearing cap	8 Frame	13 Opposite drive end outer bearing cap	18 Motor-driven blower
4 Drive end inner bearing cap	9 Brushes	14 Opposite drive end end-shield	19 Blower motor
5 Drive end end-shield	10 Brushholders	15 Support for tachogenerator	20 Pressure switch

6. MOTOR SELECTION BASED ON RATING AND OPERATING CONDITIONS[2]

6.1. RATINGS

Maximum ratings, with de-rating curves for field weakening operation, for each GH 4 pole (225-450) motor design are given in the tables of the following section, together with dimensional drawings. These data are valid in the conditions shown hereafter.

- Continuous duty (S1), per EN 60034-1.
- Cooling by forced ventilation (IC06, IC17, IC37, IC86W for EN 60034-5).
- Cooling air temperature not exceeding 40°C, or cooling water temperature not exceeding 30°C.
- Altitude of the installation not exceeding 1000 meters.
- Power supply from a static converter connected in a fully controlled three-phase bridge (identification code for converter connection: B6C per IEC 971).

The maximum current ripple factor is 18%. The manufacturer must be consulted for other power supply conditions to determine if an external series inductor must be added. Current ripple (*r*) is defined (EN 60034-1) as the ratio between current alternating component RMS value and current average value. A current shape factor (*f*) can be also used: it is defined as the ratio between current RMS value and current average value. For an ideal direct current it would be $f = 1$, whereas for a real rectified current, with the same rated value, it would be $f < 1$, in general: this causes power loss to increase, but worse commutation too derives from this. Here is the relation between the above parameters: $f^2 = 1 + r^2$.

To prevent commutation capability decrease and power loss increase it is necessary that current dissimmetry be lower than 10%. Current dissimmetry can be defined as the ratio (in percent) between the two following quantities: the difference between maximum and minimum value of rectified current, in one cycle; and rated current.

- Speed regulation lower than 1:1.5 by means of field weakening control for non-compensated machines, and 1:2.5 for compensated machines. The manufacturer must be consulted for wider speed range regulation by means of field weakening control. Additional information is given in paragraph 6.5.
- Maximum load of 160% for 15 s per EN 60034-1. The duty cycle should be such that RMS current does not exceed rated current. Additional information on overload capability is given in paragraph 6.3.
- Class F temperature rises, according to EN 60034-1; insulating system is Class H. The effects of cooling air temperature and altitude on machine power and speed are shown in Table 15.

The manufacturer must be consulted for other temperature rise requirements (Class H or Class B).

In all cases where required working conditions are different (eg, intermittent services, ventilation and air-to-air heat exchangers or executions without ventilation, field weakening operation, heavy overloads, etc.) please check with the technical department of Nidec ASI.

In the performance tables are described the characteristics of each four-pole GH motor related of armature voltage and normal speed, more precisely:

- power (kW);
- efficiciency (%);
- armature current in S1 duty (A);
- resistance of the armature circuit at 115°C (Ω);
- saturated armature inductance (mH);
- armature winding code;
- maximum excitation power (W);
- time constant of excitation circuit (s);
- motor weight, in IC06, including the fan (kg);
- moment of inertia (kg m²).

The performances shown in the tables for the machines GH 225-450 are deducted from the calculation and do not take into account the loss of the excitation circuit (if separate, as usual) and power for forced ventilation.

2 All the following tables are related to the performance of four-pole motors. **For the selection of a six-pole machine or higher a check by Nidec ASI technical department is always necessary.**

6. MOTOR SELECTION BASED ON RATING AND OPERATING CONDITIONS[2]

TABLE 15
Derating factors for power and speed based on altitude and ambient temperature

ALTITUDE	K_p	K_n	AMBIENT TEMPERATURE	K_p	K_n
m a.s.l.			°C		
1000	1	1	30	1	1
1500	1.03	0.99	35	1	1
2000	1.07	0.98	40	1	1
2500	1.11	0.96	45	1.04	0.98
3000	1.15	0.94	50	1.09	0.96
3500	1.20	0.92	55	1.13	0.93
4000	1.27	0.90	60	1.17	0.90

6.2. SUPPLY VOLTAGE

Supply voltage values as indicated in rating tables can be obtained from full rectifier bridge converter (B6C), from the following typical AC supplies:

220 V from 220 V - 50 Hz
420 V from 400 V - 50 Hz
460 V from 400 V - 50 Hz
520 V from 500 V - 50 Hz
600 V from 500 V - 50 Hz
700 V from 600 V - 50 Hz

Motors with different suppply voltages are in any case available.
If voltage is not indicated in catalogue ratings, motor speed n can be obtained from the relation:

$$n = n_c \left(\frac{V - \Delta V}{V_c - \Delta V} \right)$$

where:

$\Delta V = R \cdot I + 2.5$ (V)
n : required speed (rpm)
n_c : catalogue speed (rpm)
V : armature voltage (V)
V_c : catalogue closest voltage value (V)
ΔV : motor voltage drop (V)
R : armature resistance at 115°C (Ω)
I : armature current (A)

Motor power can be calculated with good accuracy by assuming a linear relation between two group catalogue data:

$$P = P_2 + \frac{(P_1 - P_2)(n - n_2)}{n_1 - n_2}$$

where:
P = new power (kW) at voltage V
P_1 = catalogue power (kW) at the closest (rounded up) catalogue voltage
P_2 = catalogue power (kW) at the closest (rounded down) catalogue voltage
n_1 = catalogue base speed (rpm) at the closest (rounded up) catalogue voltage
n_2 = catalogue base speed (rpm) at the closest (rounded down) catalogue voltage

When V is higher than the maximum catalogue voltage for the armature winding considered, ask the Manufacturer.

6. MOTOR SELECTION BASED ON RATING AND OPERATING CONDITIONS[2]

6.3. MAXIMUM LOADS

As noted in paragraph 6.1, maximum loading is subject to a specific set of conditions. GH type machines are designed to meet and exceed the severe operating demands of industrial applications.
Capabilities of uncompensated and compensated wound machines are noted hereafter.

Non-compensated size GH225

The maximum torque is 1.6 times the rated torque for 15 s on the basis of approximately 200% instantaneous current with such cycling that the RMS load value during a 5 minute load cycle does not exceed the rated armature current.
Motors with a stabilizing series field are capable of carryng out a torque 1.8-2.0 times the rated torque with a current twice the rated current.

Compensated sizes GH 225-450

The maximum torque is 1.8 times the rated torque for 15 s on the basis of approximately 200% current with such cycling that the RMS load value during a 5 minute load cycle does not exceed the rated armature current.

6.4. CURRENT RATE-OF-RISE

Reference signal step variations in control loops normally adopted in industrial plants, such as speed and torque control loops, cause current to vary rapidly, with high peak values; current derivative (with respect to time) maximum value, or current temporal rate-of-rise, during transient affects commutation in DC machines.
A current rate-of-rise of 200 In /s at rated current and speed is generally allowed (In being rated current value).

6.5. SPEED REGULATION

Values of maximum allowable speeds are listed in Table 12.
Each motor can operate at full field (with speed control) at constant torque up to one fiftieth (1/50) of the base speed
without significant torque pulsation.
Each motor can operate with field weakening speed regulation (with a stabilizing series field or compensating winding)
up to the maximum mechanical speed. When the motor speed is controlled by field weakening, it is necessary to reduce the rating given in the tables in accordance with the derating diagram.
In particular: $P = P_n \times K$

Where:
P = allowable output power,
P_n = output power given in the tables,
K = derating coefficient shown in the diagrams versus maximum required speed and winding code.

For each frame size, the derating diagram is indicated for the machine having the maximum frame length. For motors having a shorter frame length, the maximum speed is obtained by multiplying the speed determined from the diagram by the derating coefficients given in the tables.

6. MOTOR SELECTION BASED ON RATING AND OPERATING CONDITIONS[2]

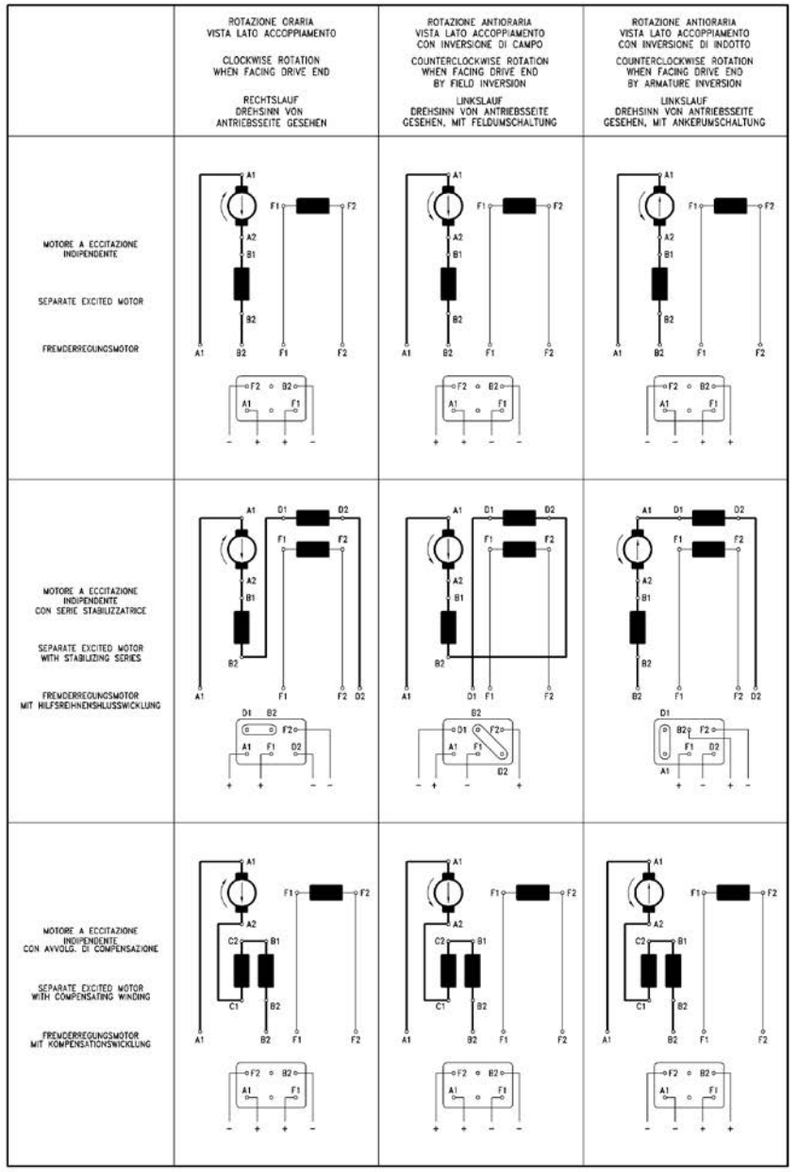
6.6. DUTY WITH LARGE SPEED REGULATION

The use of mixed control systems provides a large increase in the allowable speed range, including overloads. This type of speed regulation reaches maximum speed by a combination of increasing armature voltage (and corresponding decrease in current) and field weakening.
This arrangement provides the advantages of operating with a pre-determined ratio of field weakening, and of reducing armature current approximately by the ratio between the speed at the beginning of field weakening, and base speed.
It is good for commutation since it depends not only on current value (reactance voltage), but also on the saturation of the commutating pole circuit (divergent black commutation bands).
The adoption of a mixed type speed control (or "false characteristic") does not involve changes in either frame size or core length. While the static converter size increases for larger current, the cost is compensated by the improved operation of the complete drive system.

6.7. EXCITATION

All standard motors, with or without compensating windings, are designed for separate excitation without the use of a stabilizing series winding.
Size GH225 can be fitted with a stabilizing series field upon request.
Standard excitation voltages are 220 V and 330 V, with alternate voltages available upon request.
Connection diagrams and terminal markings are shown in Table 16 (for normalized, cf. Table 14).

TABLE 16
Terminal marking



6. MOTOR SELECTION BASED ON RATING AND OPERATING CONDITIONS[2]

6.8. MAXIMUM CURRENT AT LOCKED ROTOR

Typical maximum permissible values of armature current at locked rotor condition based on time are specified in Table 17. This data are for information use only: the manufacturer must be consulted for data applicable to specific machine ratings and applications.

6.9. ACCESSORIES

Following a summary of the main accessories normally mounted on GH machines.

Stator thermal protective devices

To prevent machine from reaching dangerous temperature values, or at any rate higher temperature values than allowed, it is advisable to adopt one of the following solutions:

- opening an electric circuit by means of bimetallic thermostats (this is Nidec ASI standard solution: a first thermostat protecting excitation winding, a second one protecting interpole winding);
- same action as above, by means of thermistor devices (on request);
- continuous temperature monitoring by means of resistance temperature detectors (PT100, on request).

Temperature detectors' leads are normally wired to the auxiliary board in main terminal box.

Space heaters

Space heaters of armoured type can be provided on request. Typical ratings are given in Table 18 for 220 V, 1-phase, 50 Hz power supply. When automatic control of the space heaters is desired, a dedicated thermostat is available upon request.

Air flow switch

On request, a pressure switch is mounted on motors with separate ventilation blowers or air duct connections to detect the presence, or absence, of cooling air. This device is also part of the standard equipment of the air-water or air-to-air exchangers (see diagrams in Figure 6 and Figure 7).
Please note that the device cannot in any case protect the machine in case of insufficient air flow due to dirty or clogged filter.

Speed monitoring devices

Motors are usually supplied with a pre-arrangement for solid shaft tachogenerator or digital encoder, for axial mounting on opposite drive end side, with stardard RE.0444 type connection flange (Euroflange). An elastic coupling to connect the device is always included in standard pre-arrangement (normally the coupling bore diameter is 11 mm).
It is possible, on request, to supply different devices and special pre-arrangements (for instance, pre-arrangement for hollow shaft encoders, for mounting without elastic coupling).
On machines with two shaft ends, intended for tandem front position, a special arrangement is available for B5 mounting of speed control devices on drive end side (transmission by means of pulley and belt).

6. MOTOR SELECTION BASED ON RATING AND OPERATING CONDITIONS[2]

TABLE 17
Maximum current at locked rotor

ARMATURE CURRENT	TIME PERIOD
%	S
200	10
150	20
100	30
50	90
20	600
15	Continuous

TABLE 18
Space heaters ratings

SIZE	225	250	280	315	355	400	450	500	560	630
POWER W	120	200	300	300	400	400	720	2X 720	2X 720	2X 720

7. TESTS

Each motor is subjected to all tests that are necessary to ensure the product is fully acceptable; in particular, for each DC machine of ours a specific electric set-up is performed, in order to get good commutation at rated load and in overload, in the whole speed range.
We distinguish routine tests, performed on each machine built, and type tests, intended to prototypes or performed at the request of the customer. See also Table 19.

TABLE 19
Main tests

TEST	ROUTINE TEST	TYPE TEST
Winding resistance at room temperature	✘	✘
Saturation curves		✘
No-load losses		✘
Speed regulation at base and top speed	✘	✘
Constant torque characteristics	✘	✘
Constant power characteristics	✘	✘
Heat run test		✘
Visual commutation check	✘	✘
Momentary overload tests	✘	✘
Noise Level		✘
Vibrations	✘	✘
Overspeed	✘	✘
High-potential test (AC)	✘	✘
Insulation resistance	✘	✘
Measurement of moment of inertia		✘

Nidec
All for dreams

DC MOTORS

GH225

Performance Tables are displayed on multiple pages, alongside the data tables are repeated alternately overall dimensions (IC06- IC86W-IC37)

Nidec SISTEMI INDUSTRIALI

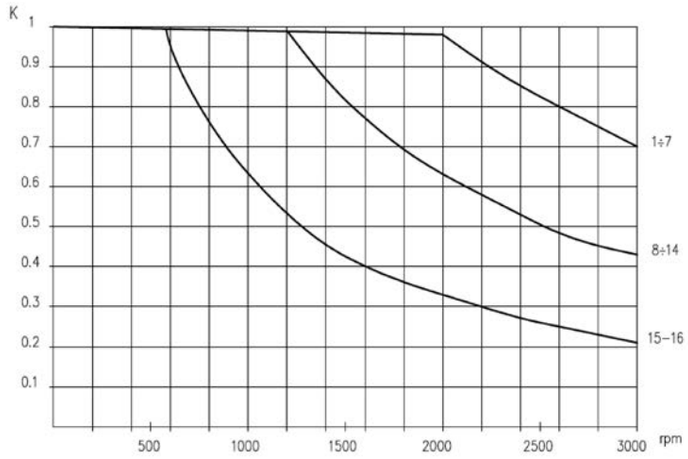
Nidec
All for dreams

DC MOTORS

GH 225

RIDUZIONE DELLA POTENZA IN DISECCITAZIONE
DERATING FOR FIELD WEAKENING OPERATION
LEISTUNGSREDUZIERUNG BEI FELDSWÄCHUNG

GH 225 (non compensata - uncompensated - unkompensiert)
[160% sovraccarico - overload - überlast]

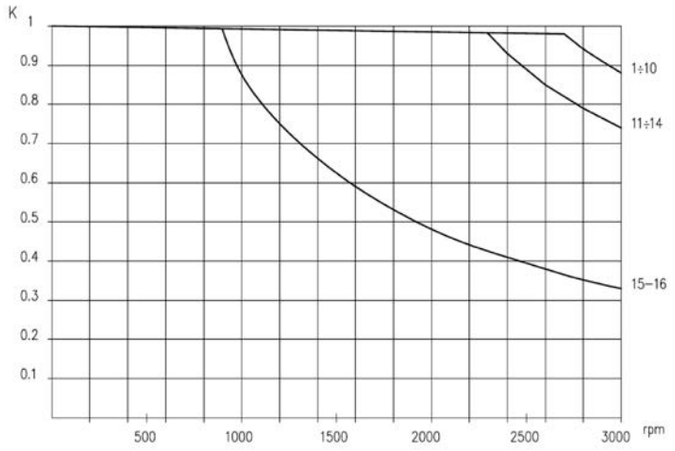


P = K x P tabella potenza disponibile	Allowable power output P = K x P table		Werfügbare Leistung P = K x P table
per/for/für	GH 225 S	K = K x 1.5	
	GH 225 M	K = K x 1.41	
	GH 225 L	K = K x 1.25	
	GH 225 P	K = K x 1.11	
	GH 225 X	K = K x 1.0	
Per K ≥ 1 niente declassamento	For K ≥ 1 no derating		Für K ≥□1 keine Leistungreduzierung

GH 225 K

RIDUZIONE DELLA POTENZA IN DISECCITAZIONE
DERATING FOR FIELD WEAKENING OPERATION
LEISTUNGSREDUZIERUNG BEI FELDSWÄCHUNG

GH 225 K (compensata - compensated - kompensiert)
[180% sovraccarico - overload - überlast]



P = K x P tabella potenza disponibile	Allowable power output P = K x P table		Werfügbare Leistung P = K x P table
per/for/für	GH 225 SK	K = K x 1.5	
	GH 225 MK	K = K x 1.41	
	GH 225 LK	K = K x 1.25	
	GH 225 PK	K = K x 1.11	
	GH 225 XK	K = K x 1.0	
Per K ≥ 1 niente declassamento	For K ≥ 1 no derating		Für K ≥□1 keine Leistungreduzierung

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data: Air flow (m³/min)	Ventilation data: Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end: Coupling	Drive end: Pulley	Opposite drive end
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

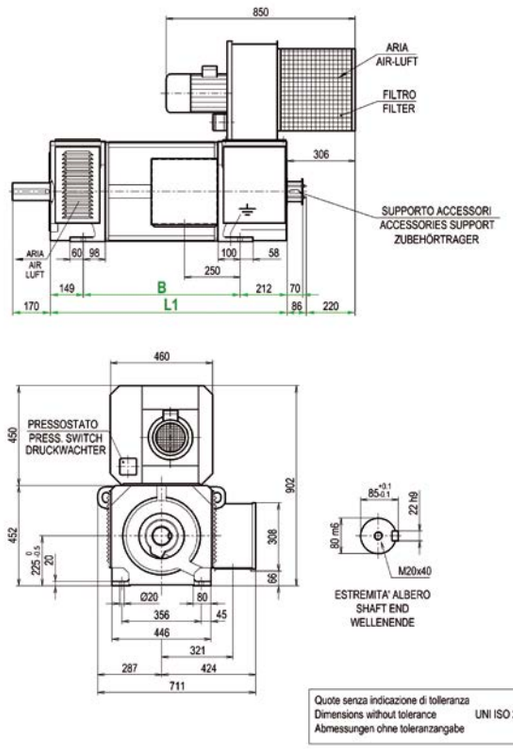
Nidec
All for dreams

DC MOTORS

GH225 S

Rated speed (rpm) at armature voltage						Excitation power (W): 2400 Field time costant (s): 0.68 Motor mass (kg): 795 (IC06) Moment of inertia (kg m²): 1.75			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
1300						149	750	90.6			
	2470					281	750	93.7	0.412	0.019	1
		2630				292	740	93.9			
1190						128	650	89.9			
	2250					239	640	93.2	0.509	0.023	2
		2370				251	640	93.4			
			2590			269	625	93.8			
1080						114	585	88.9			
	2070					213	575	92.7	0.583	0.028	3
		2170				225	575	93.1			
			2390			247	575	93.4			
950						107	550	88.5			
	1830					204	550	92.7			
		1920				215	550	92.9	0.746	0.033	4
			2120			228	530	93.4			
				2410		254	520	93.9			
860						94	490	87.2			
	1650					178	485	91.9			
		1750				188	485	92.2	0.914	0.043	5
			1920			207	485	92.6			
				2190		230	475	93.2			
					2540	262	465	93.9			
780						85	450	86.2			
	1520					161	440	91.3			
		1590				169	440	91.6	1.047	0.052	6
			1760			186	440	92.2			
				2000		203	420	93.0			
					2320	230	410	93.7			
740						81	430	85.8			
	1450					153	420	91.2			
		1520				161	420	91.4	1.179	0.056	7
			1670			177	420	92.0			
				1910		197	410	92.6			
					2210	227	405	93.6			
590						70	380	83.6			
	1160					134	375	90.0			
		1220				140	370	90.3	1.754	0.075	8
			1350			154	370	91.0			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

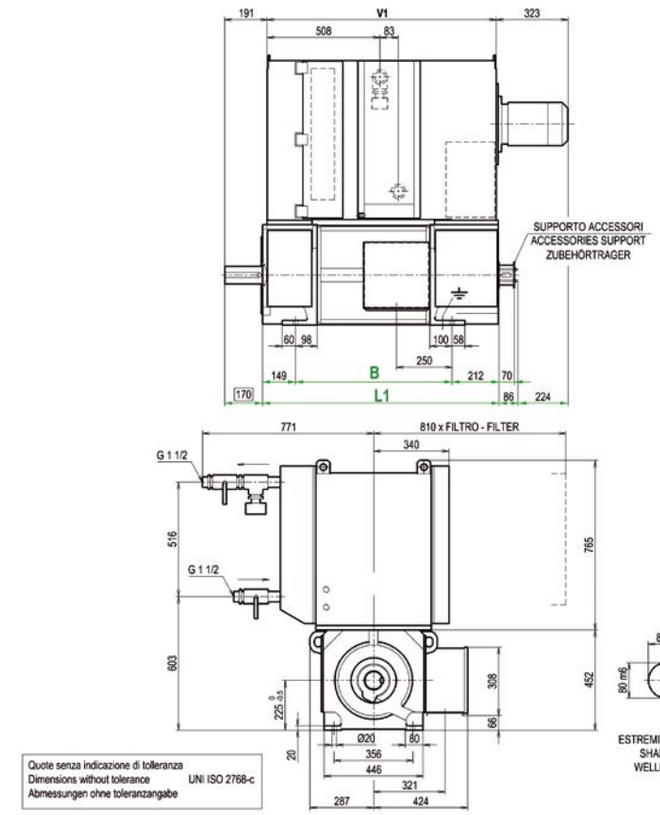
Nidec
All for dreams

DC MOTORS

GH225 S

Rated speed (rpm) at armature voltage						Excitation power (W): 2400 Field time costant (s): 0.68 Motor mass (kg): 795 (IC06) Moment of inertia (kg m²): 1.75			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
540						60	330	82.7			
	1040					116	325	89.6			
		1110				123	325	89.9	2.105	0.094	9
			1220			135	325	90.7			
				1390		151	320	91.6			
480						52	290	81.1			
	950					102	288	88.7			
		1010				108	288	89.2	2.454	0.115	10
			1120			118	288	89.9			
				1280		135	288	90.8			
420						47		80.7			
	850					94		88.6			
		900				99	265	89.1	3.080	0.137	11
			990			108		89.8			
				1130		125		90.7			
					1310	145		91.8			
370						41		77.5			
	760					83		86.4			
		810				88	240	87.1	3.704	0.168	12
			900			96		88.0			
				1020		112		90.2			
					1200	130		90.6			
340						35		73.6			
	700					73		85.3			
		730				77	216	85.8	4.362	0.209	13
			820			86		86.7			
				930		98		88.5			
					1090	115		89.5			
	650					72		85.3			
		700				76		85.9			
			760			84	210	86.7	4.779	0.224	14
				890		95		88.5			
					1030	111		89.0			
	540					62		82.9			
		560				65	185	83.6	7.015	0.304	15
			630			72		84.9			
	480					54		82.5			
		520				58	165	83.0	8.419	0.382	16
			560			64		84.5			
				660		73		86.0			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

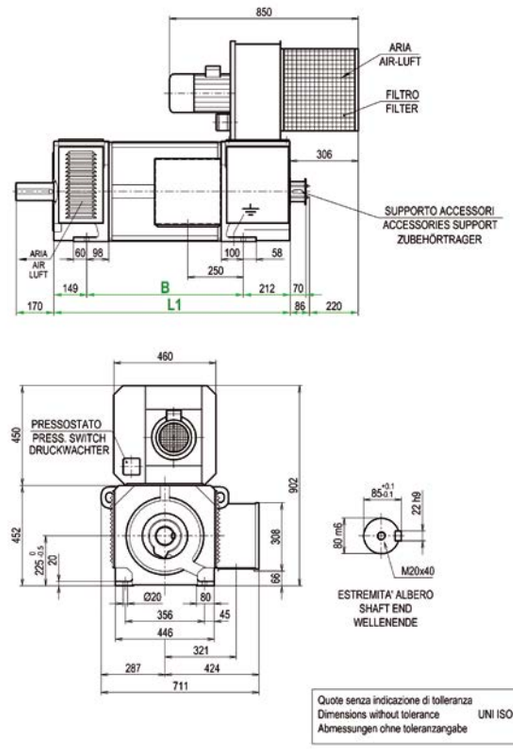
Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

GH225 M

Rated speed (rpm) at armature voltage						Excitation power (W): 2600 Field time costant (s): 0.77 Motor mass (kg): 850 (IC06) Moment of inertia (kg m²): 1.95			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
1120						148	750	90.2	0.466	0.020	1
	2120					280	750	93.5			
		2260				291	740	93.7			
			2460			309	715	94.0			
1020						128	650	89.4	0.551	0.025	2
	1930					238	640	93.0			
		2030				250	640	93.2			
			2230			269	625	93.6			
				2560		300	615	94.0			
930						114	585	88.4	0.646	0.030	3
	1170					212	575	92.5			
		1860				224	575	92.8			
			2050			246	575	93.2			
				2340		272	560	93.8			
820						107	550	88.2	0.817	0.035	4
	1570					203	550	92.5			
		1650				214	550	92.7			
			1820			227	530	93.2			
				2070		253	520	93.7			
					2420	283	500	94.3			
740						93	490	86.4	0.994	0.045	5
	1420					177	485	91.5			
		1500				187	485	91.8			
			1650			205	485	92.3			
				1880		230	475	93.0			
					2180	261	465	93.7			
670						84	450	85.3	1.149	0.056	6
	1300					160	440	90.9			
		1370				168	440	91.2			
			1510			185	440	91.8			
				1720		202	420	92.6			
					2000	230	410	93.3			
640						80	430	84.8	1.286	0.060	7
	1240					152	420	90.7			
		1300				160	420	91.0			
			1440			176	420	91.6			
				1640		197	410	92.3			
					1900	226	405	93.2			
510						69	380	82.4	1.965	0.081	8
	990					133	375	89.4			
		1050				140	370	89.8			
			1160			153	370	90.5			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

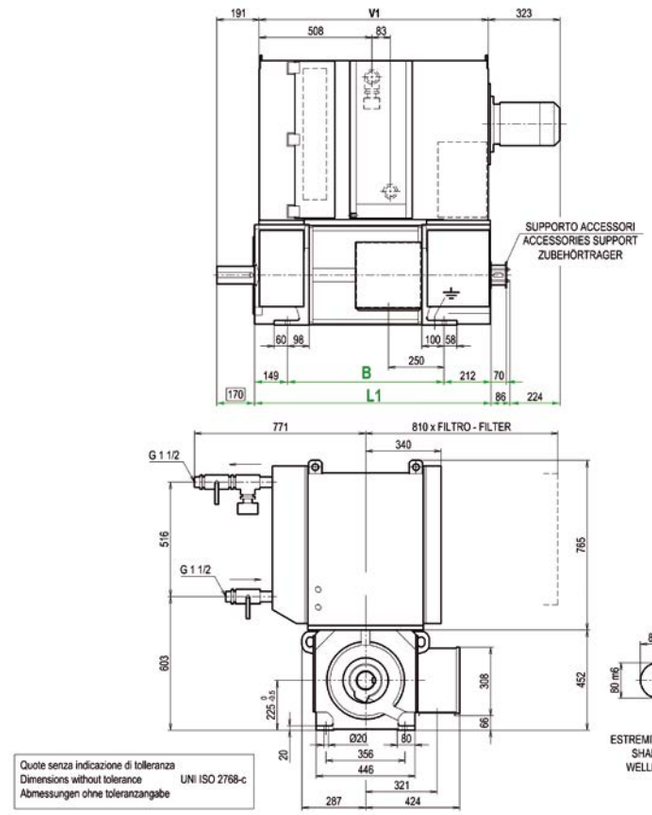
Nidec
All for dreams

DC MOTORS

GH225 M

Rated speed (rpm) at armature voltage						Excitation power (W): 2600 Field time costant (s): 0.77 Motor mass (kg): 850 (IC06) Moment of inertia (kg m²): 1.95			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
460						59	330	81.6			
	900					115	325	89.0			
		950				122	325	89.4	2.321	0.103	9
			1050			135	325	90.2			
				1200		151	320	91.1			
410						51	290	79.8			
	820					101	288	88.0			
		870				107	288	88.5	2.702	0.127	10
			960			118	288	89.3			
				1100		135	288	90.3			
360						46		79.4			
	730					93		87.9			
		770				98	265	88.4	3.314	0.148	11
			850			108		89.2			
				970		124		90.2			
					1130	145		91.3			
320						40		75.8			
	660					82		85.9			
		690				87	240	86.5	4.038	0.182	12
			770			96		87.5			
				880		111		88.7			
					1030	130		90.0			
290						34		72.6			
	600					72		84.2			
		630				76	216	84.8	4.747	0.226	13
			700			85		86.0			
				800		98		87.4			
					940	115		88.8			
	560					71		84.2			
		600				75		84.9			
			660			83	210	86.0	5.236	0.242	14
				760		95		87.4			
					890	111		88.9			
	460					60		81.6			
		480				64	185	82.4	7.520	0.325	15
			540			71		83.8			
	410					53		81.2			
		440				57	165	82.0	8.960	0.408	16
			480			63		83.4			
				565		73		85.1			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

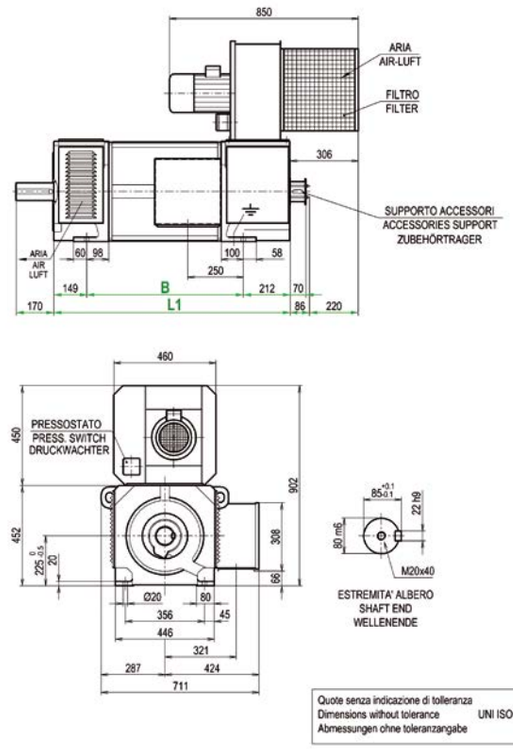
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

Nidec
All for dreams

GH225 L

Rated speed (rpm) at armature voltage						Excitation power (W): 3000 Field time costant (s): 0.81 Motor mass (kg): 910 (IC06) Moment of inertia (kg m²): 2.2			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
990						148	750	89.8			
	1870					280	750	93.3	0.524	0.021	1
		1980				290	740	93.5			
			2200			310	720	93.8			
900						127	655	88.9			
	1710					238	640	92.8			
		1800				250	640	93.0	0.620	0.027	2
			1970			268	625	93.4			
				2260		300	615	93.9			
820						113	585	87.9			
	1560					212	575	92.3			
		1650				223	575	92.5	0.726	0.033	3
			1810			245	575	93.0			
				2060		275	565	93.6			
730						107	555	87.6			
	1390					202	550	92.2			
		1460				213	550	92.5	0.919	0.038	4
			1610			229	535	92.9			
				1840		253	520	93.6			
					2150	282	500	94.1			
650						93	495	85.6			
	1260					176	485	91.1			
		1330				186	485	91.4	1.118	0.048	5
			1460			205	485	92.0			
				1660		230	475	92.8			
					1950	261	465	93.5			
590						83	450	84.4			
	1150					159	440	90.5			
		1210				167	440	90.8	1.292	0.060	6
			1330			185	440	91.4			
				1520		201	420	92.2			
					1770	231	415	92.9			
560						79	430	83.8			
	1090					151	420	90.2			
		1150				159	420	90.6	1.446	0.064	7
			1270			176	420	91.2			
				1450		196	410	92.0			
					1680	225	405	92.8			
440						68	380	81.2			
	880					133	375	88.8			
		920				138	370	89.3	2.211	0.087	8
			1020			153	370	90.0			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

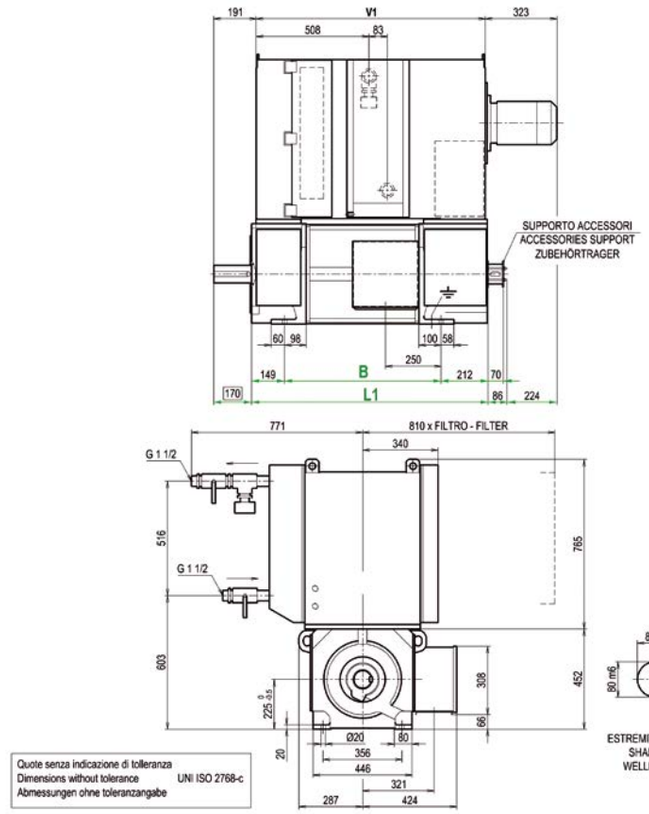
Nidec
All for dreams

DC MOTORS

GH225 L

Rated speed (rpm) at armature voltage						Excitation power (W): 3000 Field time costant (s): 0.81 Motor mass (kg): 910 (IC06) Moment of inertia (kg m²): 2.2			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
400						58	330	80.5			
	790					115	325	88.4			
		840				121	325	88.9	2.612	0.110	9
			930			134	325	89.7			
				1060		150	320	90.6			
360						50	290	78.5			
	730					100	288	87.3			
		770				106	288	87.8	3.041	0.133	10
			850			117	288	88.7			
				970		134	288	89.8			
320						45		78.1			
	640					92		87.2			
		680				97	265	87.7	3.729	0.159	11
			750			108		88.6			
				860		123		89.7			
					1000	144		90.8			
280						39		74.1			
	580					81		85.0			
		610				86	241	85.6	4.544	0.194	12
			680			96		86.7			
				770		110		88.0			
					910	129		89.4			
	520					71		83.1			
		550				76		83.8			
			610			84	216	85.1	5.341	0.243	13
				700		97		86.6			
					830	114		88.1			
	490					70		83.2			
		520				74		83.9			
			580			82	210	85.2	5.892	0.260	14
				670		94		86.7			
					780	110		88.2			
	400					59		80.3			
		420				63	185	81.2	8.461	0.348	15
			470			70		82.7			
	360					52		79.9			
		380				56	165	80.8	10.082	0.436	16
			425			62		82.3			
				490		72		84.2			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

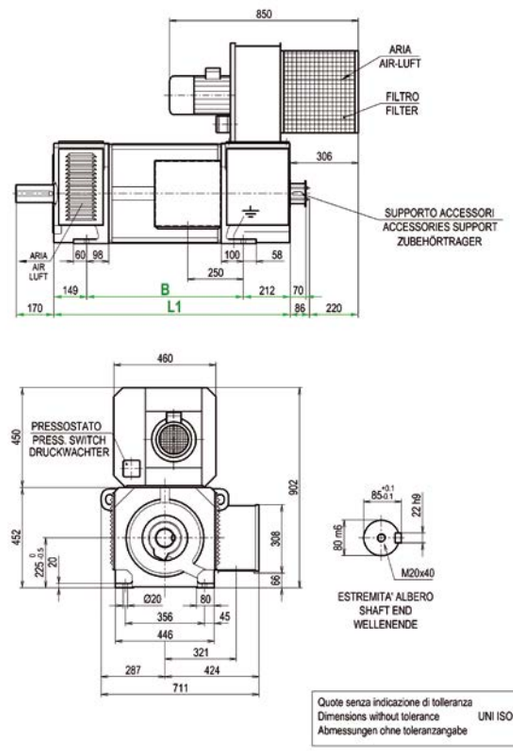
Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

GH225 P

Rated speed (rpm) at armature voltage						Excitation power (W): 3300 Field time costant (s): 0.84 Motor mass (kg): 965 (IC06) Moment of inertia (kg m²): 2.4			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
880						147	750	89.3			
	1670					279	750	93.1	0.588	0.023	1
		1750				293	750	93.3			
			1950			310	720	93.6			
790						127	655	88.3			
	1510					237	640	92.6			
		1590				249	640	92.8	0.696	0.029	2
			1750			267	625	93.2			
				2000		300	615	93.9			
720						112	585	87.2			
	1390					211	575	92.0			
		1460				222	575	92.2	0.815	0.036	3
			1610			245	575	92.7			
				1830		275	565	93.5			
640						106	555	86.9			
	1230					202	550	91.9			
		1300				212	550	92.2	1.032	0.041	4
			1430			228	535	92.6			
				1630		252	520	93.2			
					1900	282	500	94.0			
580						92	495	84.7			
	1110					175	485	90.7			
		1170				185	485	91.0	1.256	0.052	5
			1290			204	485	91.6			
				1470		228	475	92.5			
					1710	260	465	93.2			
520						82	450	83.5			
	1020					158	440	90.0			
		1070				167	440	90.4	1.451	0.065	6
			1180			184	440	91.0			
				1350		200	420	91.8			
					1570	230	415	92.6			
490						78	430	82.8			
	970					150	420	89.7			
		1020				158	420	90.1	1.624	0.069	7
			1120			175	420	90.8			
				1280		195	410	91.6			
					1500	225	405	92.5			
390						67	380	80.0			
	770					132	375	88.2	2.485	0.094	8
		820				137	370	88.6			
			900			152	370	89.5			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

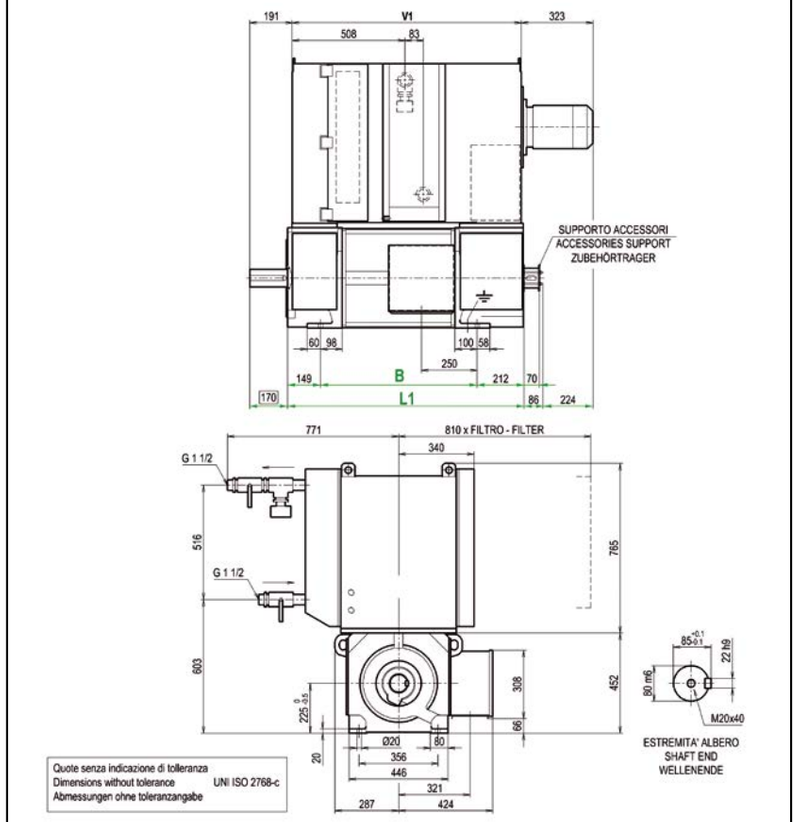
Nidec
All for dreams

DC MOTORS

GH225 P

Rated speed (rpm) at armature voltage						Excitation power (W): 3300 Field time costant (s): 0.84 Motor mass (kg): 965 (IC06) Moment of inertia (kg m²): 2.4			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
350						57	330	79.2			
	700					114	325	87.7			
		740				120	325	88.2	2.935	0.118	9
			820			133	325	89.1			
				940		150	320	90.1			
320						49	290	77.0			
	640					99	288	86.6			
		680				105	288	87.1	3.417	0.144	10
			750			116	288	88.1			
				860		133	288	89.2			
280						44		76.6			
	570					91		86.4			
		600				96	265	86.9	4.190	0.171	11
			670			107		87.9			
				760		122		89.1			
					890	143		90.3			
510						81		84.0			
	540					85		84.7			
			600			95	240	85.9	5.106	0.209	12
				690		109		87.3			
					800	128		88.8			
460						70		82.0			
	490					75		82.8			
			540			83	216	84.1	6.002	0.261	13
				620		96		85.8			
					730	113		87.4			
430						69		82.1			
	460					73		82.9			
			510			81	210	84.2	6.621	0.280	14
				590		93		85.8			
					690	110		87.5			
350						58		79.0			
	370					62	185	79.9	9.508	0.375	15
		410				69		81.5			
320						51		78.5			
	340					55	165	79.5	11.329	0.470	16
			370			61		81.1			
				430		71		83.1			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

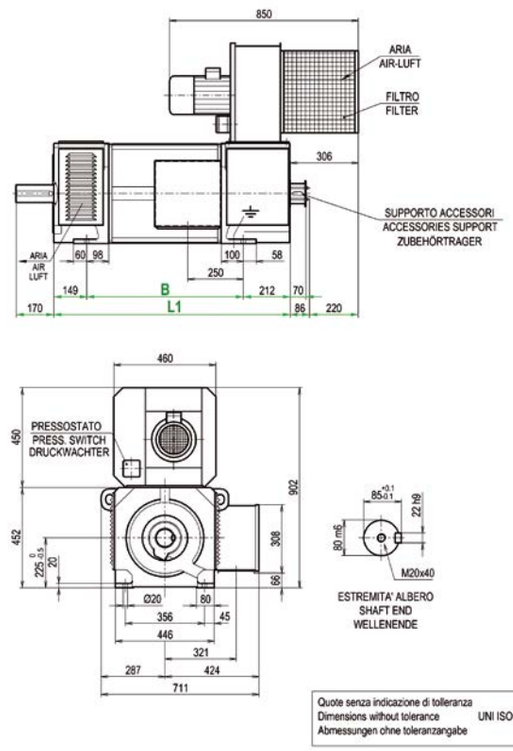
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

Nidec
All for dreams

GH225 X

Rated speed (rpm) at armature voltage						Excitation power (W): 3500 Field time costant (s): 0.87 Motor mass (kg): 1040 (IC06) Moment of inertia (kg m²): 2.6			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
790						146	750	88.8			
	1500					278	750	92.8			
		1600				292	750	93.0	0.652	0.025	1
			1750			310	720	93.6			
710						126	655	87.8			
	1360					235	640	92.3			
		1430				248	640	92.5	0.772	0.031	2
			1580			267	625	93.0			
				1800		300	615	93.7			
650						111	585	86.6			
	1240					210	575	91.6			
		1310				222	575	91.9	0.905	0.037	3
			1440			244	575	92.4			
				1640		274	565	93.2			
570						105	555	86.2			
	1100					201	550	91.5			
		1160				210	550	91.8	1.145	0.044	4
			1280			227	535	92.3			
				1460		251	520	93.0			
					1720	280	500	93.8			
510						91	495	83.9			
	1000					175	485	90.3			
		1050				184	485	90.6			
			1160			203	485	91.2	1.393	0.055	5
				1320		228	475	92.2			
					1540	260	465	93.0			
460						81	450	82.5			
	910					157	440	89.5			
		960				166	440	89.9			
			1060			183	440	90.6	1.610	0.068	6
				1210		200	420	91.7			
					1410	230	415	92.6			
440						77	430	81.8			
	870					149	420	89.2			
		910				158	420	89.6			
			1010			174	420	90.3	1.802	0.074	7
				1150		198	410	91.2			
					1350	224	405	92.3			
350						66	380	78.8			
	690					131	375	87.5			
		730				136	370	88.0	2.759	0.101	8
			810			150	370	88.9			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

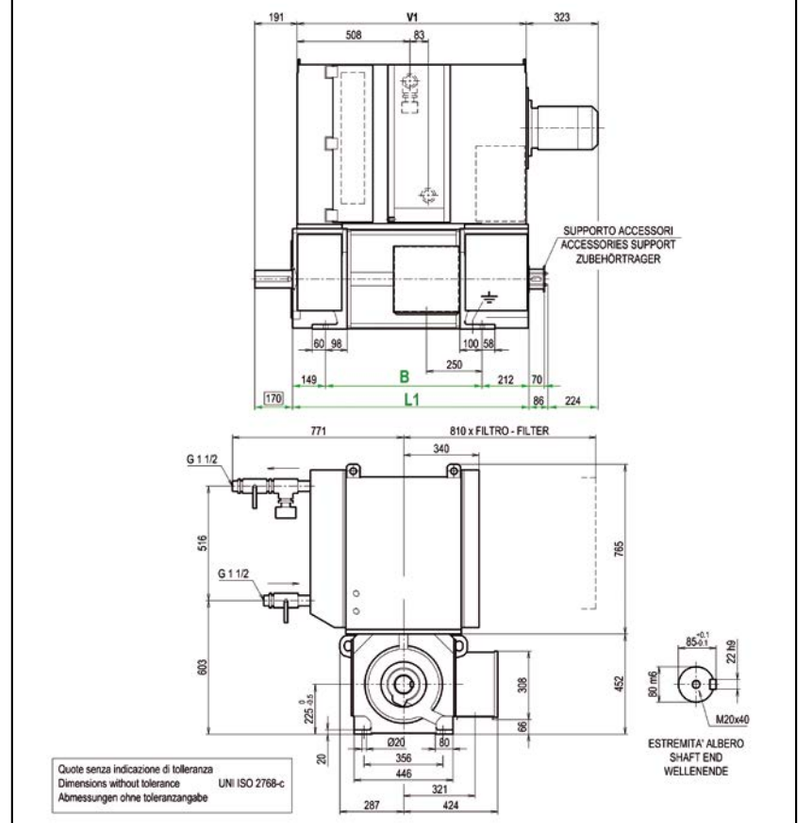
Nidec
All for dreams

DC MOTORS

GH225 X

Rated speed (rpm) at armature voltage						Excitation power (W): 3500 Field time costant (s): 0.87 Motor mass (kg): 1040 (IC06) Moment of inertia (kg m²): 2.6			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
310						56	330	77.9			
	630					113	325	87.1			
		660				119	325	87.6	3.258	0.126	9
			730			132	325	88.5			
				840		148	320	89.6			
280						48	290	75.6			
	570					98	288	85.8			
		600				104	288	86.4	3.793	0.154	10
			670			115	288	87.4			
				770		132	288	88.6			
250						43		75.2			
	510					90		85.6			
		530				95	265	86.2	4.651	0.184	11
			590			106		87.2			
				680		121		88.5			
					800	142		89.8			
450						80		83.1			
	480					84		83.8			
			530			94	240	85.1	5.668	0.224	12
				610		108		86.6			
					720	127		88.1			
410						69		80.9			
	430					74		81.7			
			480			82	216	83.2	6.662	0.280	13
				560		95		84.9			
					650	112		86.7			
390						68		81.0			
	410					71		81.8			
			450			79	210	83.3	7.349	0.300	14
				520		92		85.0			
					620	109		86.8			
310						57		77.6			
	330					61	185	78.6	10.554	0.402	15
			370			68		80.3			
280						50		77.2			
	300					54	165	78.2	12.575	0.504	16
			330			60		80.0			
				390		70		82.1			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

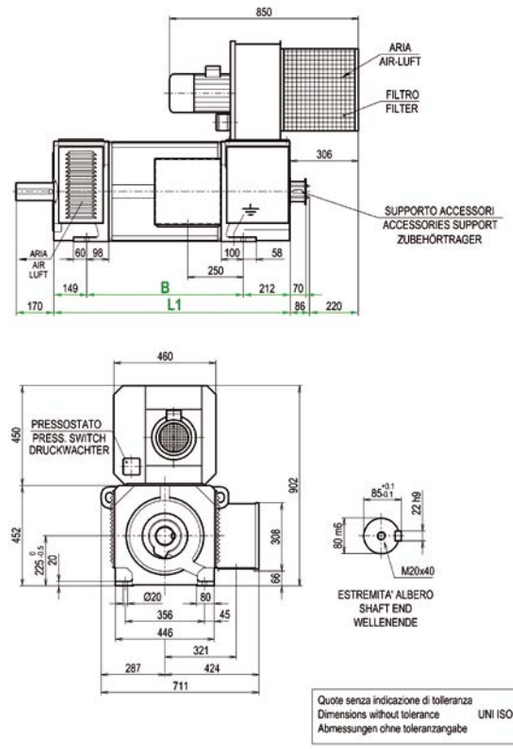
Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

GH225 SK

Rated speed (rpm) at armature voltage						Excitation power (W): 2100 Field time costant (s): 0.58 Motor mass (kg): 795 (IC06) Moment of inertia (kg m²): 1.75			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
1290						148	750	89.7			
	2450					280	750	93.4	0.141	0.024	1
		2570				293	745	93.5			
1180						128	650	89.4			
	2220					237	640	93.0	0.190	0.029	2
		2340				250	640	93.2			
			2580			268	625	93.6			
1060						115	585	88.1			
	2030					212	575	92.3	0.204	0.032	3
		2140				223	575	92.7			
			2350			245	575	92.9			
940						107	555	87.6			
	1810					203	550	92.3			
		1900				214	550	92.7	0.261	0.036	4
			2100			228	535	93.0			
				2390		253	520	93.6			
840						94	495	86.3			
	1630					177	485	90.9			
		1720				186	485	91.3	0.331	0.050	5
			1900			205	485	91.8			
				2150		228	475	92.5			
					4660	260	465	93.5			
760						81	450	82.5			
	1500					157	440	89.5			
		1570				166	440	89.9	1.610	0.068	6
			1740			183	440	90.6			
				1980		200	420	91.7			
					2300	230	415	92.6			
730						80	430	84.7			
	1410					152	420	90.3			
		1500				159	420	90.5	0.393	0.059	7
			1650			175	420	91.3			
				1890		196	410	91.9			
					2200	225	405	93.0			
570						69	380	82.8			
	1140					132	370	89.5			
		1200				139	370	89.8	0.628	0.083	8
			1320			153	370	91.5			
				1520		171	360	91.4			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

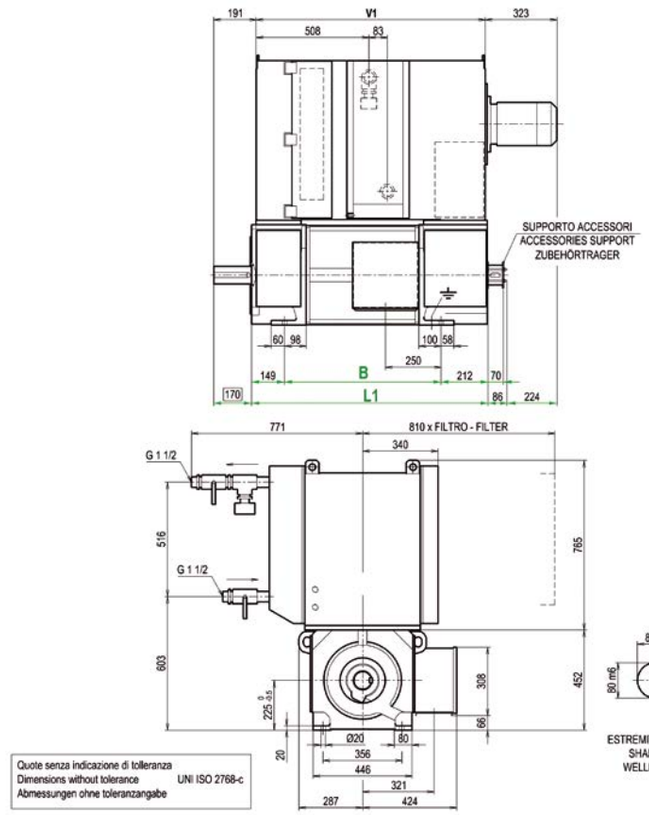
Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

GH225 SK

Rated speed (rpm) at armature voltage						Excitation power (W): 2100 Field time costant (s): 0.58 Motor mass (kg): 795 (IC06) Moment of inertia (kg m²): 1.75			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
520						58	330	81.9			
	1030					114	325	88.7			
		1080				121	325	88.5	0.699	0.105	9
			1200			133	325	90.3			
				1370		150	320	91.1			
460						51	290	80.3			
	940					101	288	87.8			
		990				106	288	88.7	0.801	0.125	10
			1110			117	288	89.2			
				1260		134	288	90.2			
					1470	156	288	90.7			
410						46		80.0			
	840					93		87.3			
		890				98	265	88.0	1.056	0.146	11
			980			107		88.9			
				1120		123		90.1			
					1300	144		91.0			
360						39		74.5			
	740					82		85.0			
		780				86	241	86.3	1.203	0.197	12
			880			95		86.6			
				1000		110		88.2			
					1170	128		89.5			
330						34		72.5			
	670					72		84.4			
		720				76	216	85.0	1.412	0.231	13
			800			85		86.1			
				920		97		88.0			
					1070	114		88.9			
	640					70		83.5			
		670				74		84.2			
			750			82	210	85.0	1.461	0.243	14
				870		94		86.9			
					900	110		88.0			
	520					60		81.1			
		550				64	185	82.5	2.359	0.338	15
			610			70		83.4			
				710		81		85.2			
	460					53		80.2			
		500				56	165	81.5	3.270	0.408	16
			550			62		83.2			
				640		71		84.9			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

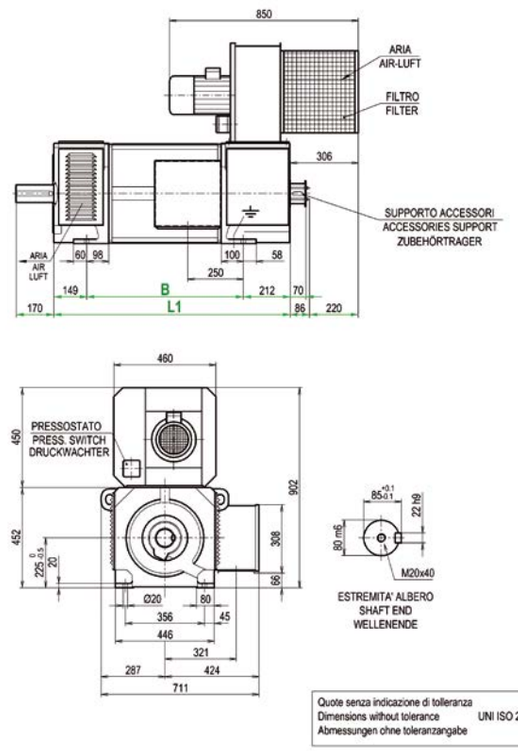
Nidec
All for dreams

DC MOTORS

GH225 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 2400 Field time costant (s): 0.62 Motor mass (kg): 850 (IC06) Moment of inertia (kg m²): 1.95			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
1110						147	750	89.3			
	2100					279	750	93.1	0.159	0.022	1
		2210				292	745	93.3			
			2450			308	715	93.7			
1010						127	650	89.0			
	1910					237	640	92.9			
		2010				250	640	93.1	0.206	0.026	2
			2220			268	625	93.5			
				2530		298	610	94.0			
910						113	585	87.5			
	1750					211	575	92.0			
		1840				222	575	92.3	0.226	0.034	3
			2020			245	575	92.7			
				2310		275	568	93.1			
810						106	555	87.2			
	1550					202	550	92.0			
		1630				213	550	92.3	0.286	0.038	4
			1800			228	535	92.7			
				2050		252	520	93.4			
					2400	282	500	93.9			
720						93	495	85.0			
	1400					176	485	90.7			
		1480				185	485	91.1	0.360	0.052	5
			1630			204	485	91.6			
				1850		228	475	92.3			
					2160	260	465	93.2			
660						83	450	84.7			
	1290					159	440	90.6			
		1350				168	440	90.9	0.370	0.059	6
			1490			185	440	91.5			
				1700		204	425	92.3			
					1980	232	415	93.2			
630						79	430	83.2			
	1220					150	420	89.9			
		1290				159	420	90.2	0.429	0.063	7
			1420			175	420	90.9			
				1620		196	410	91.7			
					1890	225	405	92.8			
490						68	380	81.7			
	980					131	370	89.0			
		1030				139	370	89.5	0.703	0.090	8
			1140			153	370	90.2			
				1300		170	360	91.1			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

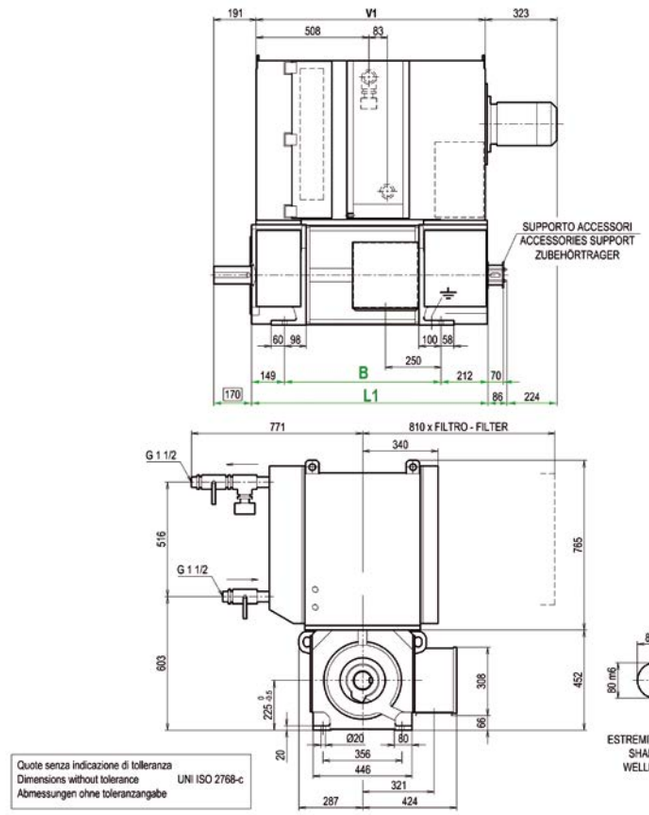
Nidec
All for dreams

DC MOTORS

GH225 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 2400 Field time costant (s): 0.62 Motor mass (kg): 850 (IC06) Moment of inertia (kg m²): 1.95			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
440						57	330	79.2			
	890					114	325	87.7			
		930				120	325	88.2	0.771	0.115	9
			1030			133	325	89.0			
				1180		150	320	90.0			
400						50	290	78.1			
	810					100	288	87.1			
		850				106	288	87.6	0.882	0.138	10
			950			117	288	88.5			
				1080		134	288	89.6			
					1260	156	288	90.7			
350						45		77.7			
	720					92		86.9			
		760				97	265	87.5	1.136	0.158	11
			840			107		88.4			
				960		123		89.5			
					1120	144		90.6			
310						38		73.2			
	640					81		84.5			
		670				86	241	85.1	1.312	0.213	12
			750			95		86.2			
				860		109		87.6			
					1000	128		89.0			
280						34		71.7			
	580					72		83.6			
		620				76	216	84.3	1.537	0.250	13
			685			85		85.5			
				790		97		87.0			
					920	114		88.5			
	550					69		82.3			
		580				73		83.0			
			650			81	210	84.3	1.601	0.263	14
				745		94		85.9			
					870	110		87.6			
	440					59		80.6			
		470				63	185	81.4	2.529	0.361	15
			520			70		82.9			
				610		81		84.7			
	400					52		79.3			
		425				55	165	80.2	3.480	0.436	16
			470			62		81.8			
				550		71		83.7			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

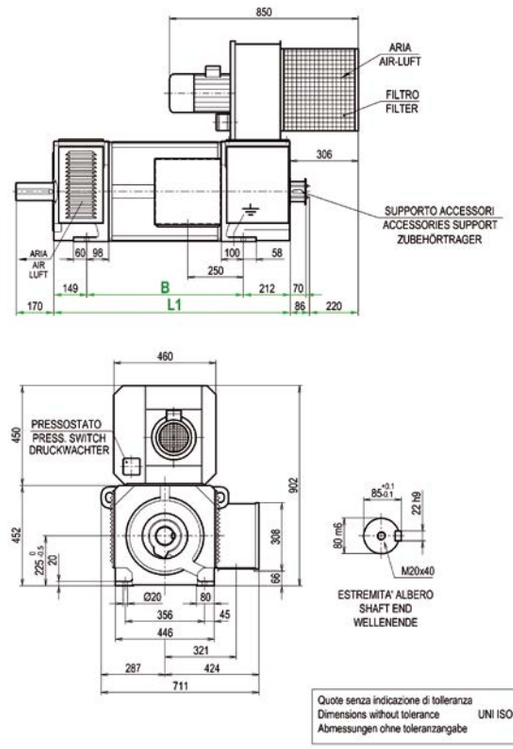
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

Nidec
All for dreams

GH225 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 2600 Field time costant (s): 0.65 Motor mass (kg): 910 (IC06) Moment of inertia (kg m²): 2.2			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
980						147	750	89.0			
	1850					278	750	92.9			
		1950				293	750	93.1	0.179	0.024	1
			2150			309	720	93.5			
				2450		337	690	93.9			
890						127	655	88.6			
	1690					237	640	92.7			
		1780				250	640	92.9	0.231	0.028	2
			1960			268	625	93.3			
				2250		300	615	93.8			
800						112	585	86.9			
	1540					211	575	91.7			
		1620				222	575	92.0	0.254	0.037	3
			1790			244	575	92.5			
				2050		276	570	93.0			
					2370	305	545	93.6			
710						106	560	86.7			
	1370					201	550	91.7			
		1440				212	550	92.0	0.321	0.042	4
			1590			227	535	92.5			
				1810		251	520	93.1			
					2110	281	500	93.6			
630						92	495	84.2			
	1240					175	485	90.3			
		1300				184	485	90.7	0.404	0.056	5
			1430			203	485	91.3			
				1640		227	475	92.0			
					1910	260	465	92.9			
580						83	450	83.8			
	1130					158	440	90.2			
		1190				167	440	90.5	0.414	0.065	6
			1320			184	440	91.2			
				1500		203	425	92.0			
					1750	231	415	92.8			
550						78	430	82.3			
	1080					150	420	89.4			
		1140				158	420	89.8	0.480	0.068	7
			1250			174	420	90.5			
				1430		197	415	91.3			
					1670	224	405	92.4			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

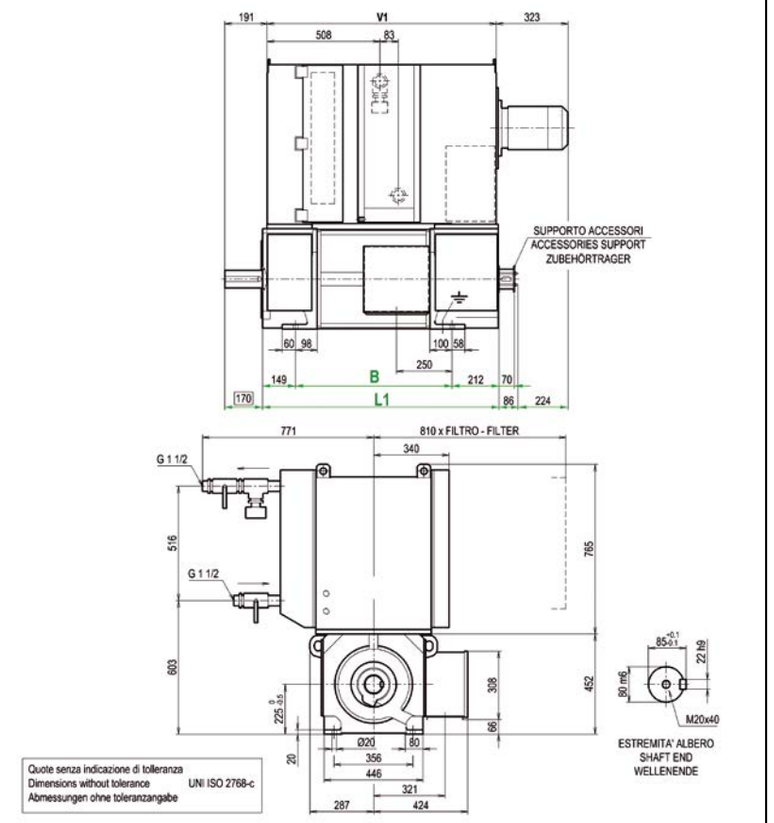
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

Nidec
All for dreams

GH225 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 2600 Field time costant (s): 0.65 Motor mass (kg): 910 (IC06) Moment of inertia (kg m²): 2.2			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
430						67	380	80.6			
	860					132	375	88.5			
		910				138	370	88.9	0.789	0.097	8
			1000			152	370	89.7			
				1150		169	360	90.7			
390						57	330	78.0			
	780					113	325	87.0			
		820				119	325	87.6	0.865	0.124	9
			910			132	325	88.5			
				1040		148	320	89.6			
350						49	290	76.8			
	710					99	288	86.4			
		750				105	288	87.0	0.990	0.150	10
			830			116	288	87.9			
				950		133	288	89.1			
					1110	156	288	90.3			
310						44		76.3			
	630					91		86.2			
		660				96	265	86.8	1.275	0.170	11
			740			106		87.7			
				840		122		88.9			
					990	143		90.2			
270						37		71.5			
	560					80		83.6			
		590				85	241	84.2	1.472	0.230	12
			660			94		85.5			
				755		108		86.9			
					890	127		88.4			
	510					71		82.6			
		540				75		83.4			
			600			84	216	84.7	1.724	0.270	13
				690		96		86.2			
					810	113		87.8			
	480					68		81.2			
		510				72		82.0			
			570			80	210	83.4	1.796	0.284	14
				660		93		85.1			
					770	109		86.8			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

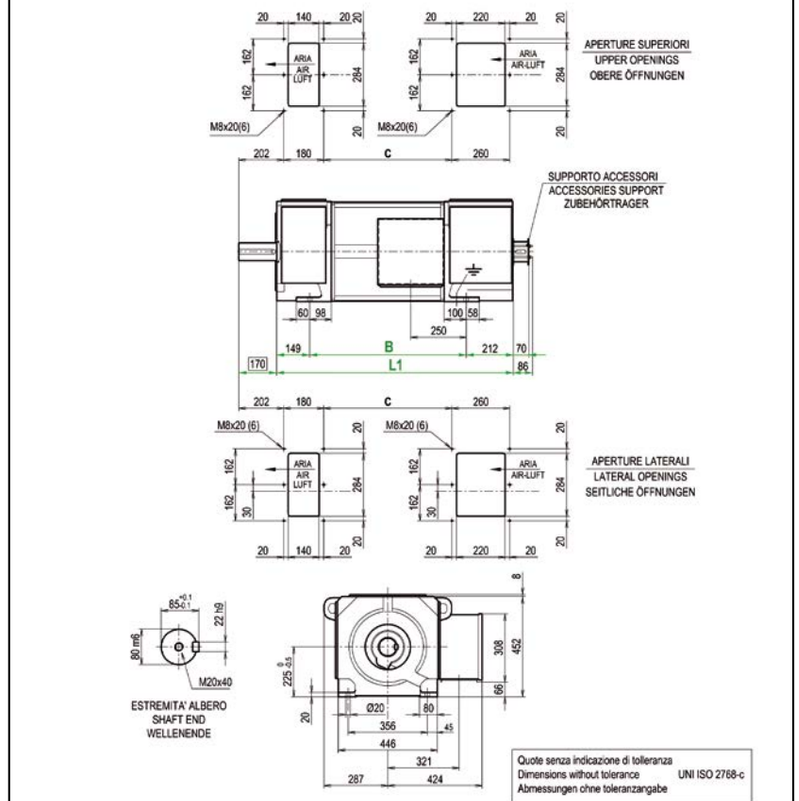
Nidec
All for dreams

DC MOTORS

GH225 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 2600 Field time costant (s): 0.65 Motor mass (kg): 910 (IC06) Moment of inertia (kg m²): 2.2			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
	390					58		79.3			
		410				62	185	80.2	2.837	0.390	15
			460			69		81.8			
				530		80		83.7			
	350					51		77.9			
		370				55	165	78.9	3.907	0.471	16
			410			61		80.6			
				480		71		82.6			

GH225 IM1001 - IP44 - IC37



Size	B	L1	C
GH225 S	655	1016	527
GH225 M	705	1066	577
GH225 L	750	1111	622
GH225 P	800	1161	672
GH225 X	850	1211	722

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

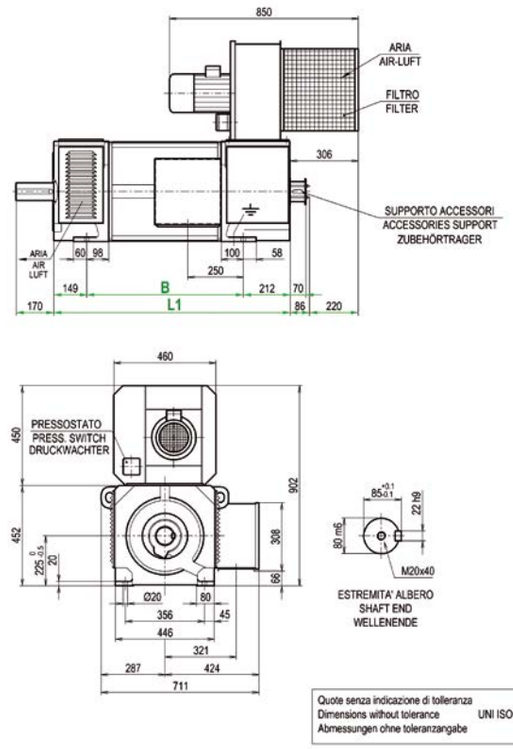
Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

GH225 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 2900 Field time costant (s): 0.68 Motor mass (kg): 965 (IC06) Moment of inertia (kg m²): 2.4			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
860						145	750	88.4			
	1640					277	750	92.5			
		1730				291	750	92.7	0.200	0.026	1
			1900			308	720	93.3			
				2200		336	690	93.7			
780						127	655	88.2			
	1490					236	640	92.5			
		1570				249	640	92.7	0.259	0.031	2
			1730			267	625	93.1			
				2000		300	615	93.7			
710						111	585	86.2			
	1360					210	575	91.4			
		1440				221	575	91.7	0.284	0.040	3
			1580			244	575	92.2			
				1800		275	570	92.9			
					2100	306	545	93.5			
630						105	560	86.0			
	1210					200	550	91.4			
		1280				211	550	91.7	0.359	0.044	4
			1410			226	535	92.2			
				1610		251	520	92.8			
					1870	281	500	93.5			
560						91	495	83.3			
	1100					174	485	89.9			
		1150				184	485	90.3	0.452	0.060	5
			1270			202	485	90.9			
				1450		226	475	91.7			
					1680	258	465	92.5			
510						82	450	82.9			
	1000					158	440	89.7			
		1050				166	440	90.1	0.463	0.070	6
			1160			184	440	90.8			
				1330		202	425	91.6			
					1550	230	415	92.4			
490						77	430	81.3			
	950					149	420	88.8			
		1000				157	420	89.3	0.538	0.073	7
			1110			173	420	90.0			
				1270		196	415	90.9			
					1470	223	405	91.8			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

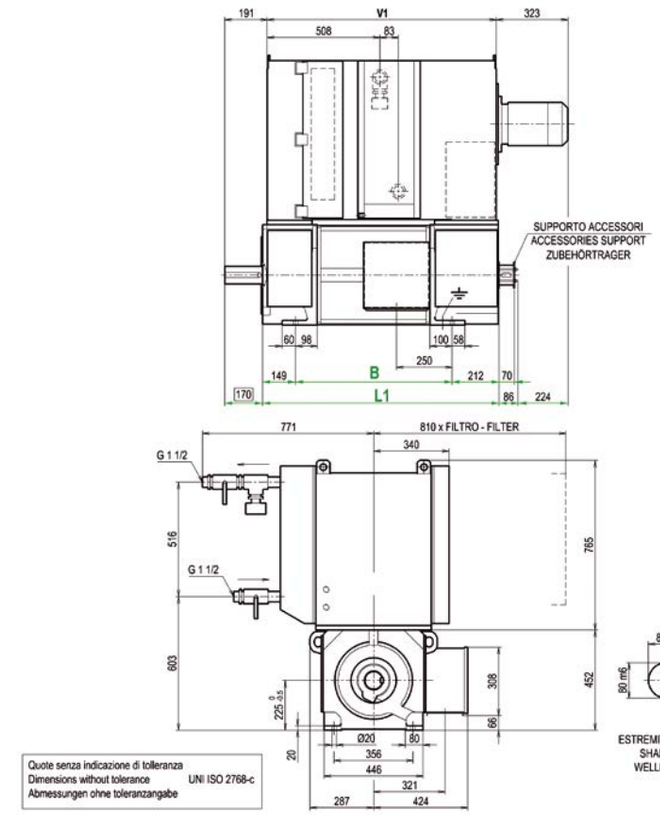
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

Nidec
All for dreams

GH225 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 2900 Field time costant (s): 0.68 Motor mass (kg): 965 (IC06) Moment of inertia (kg m²): 2.4			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
380						66	380	79.4			
	760					132	375	87.8			
		800				137	370	88.3	0.885	0.104	8
			890			152	370	89.2			
				1020		169	360	90.2			
340						55	330	76.6			
	690					112	325	86.3			
		730				118	325	86.9	0.969	0.132	9
			800			131	325	87.9			
				920		148	320	89.0			
300						48	290	75.4			
	625					98	288	85.6			
		660				104	288	86.2	1.110	0.161	10
			730			115	288	87.3			
				840		132	288	88.5			
					980	155	288	89.8			
270						43		74.8			
	550					90		85.4			
		590				95	265	86.0	1.429	0.183	11
			650			106		87.1			
				740		121		88.3			
					870	142		89.6			
	490					79		82.6			
		520				84		83.3			
			580			93	241	84.6	1.650	0.246	12
				660		108		86.2			
					780	127		87.8			
	450					70		81.6			
		475				74		82.4			
			530			83	216	83.7	1.932	0.289	13
				610		96		85.4			
					720	113		87.1			
	420					68		80.0			
		450				72		80.9			
			500			80	210	82.4	2.012	0.304	14
				580		92		84.2			
					680	108		86.1			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

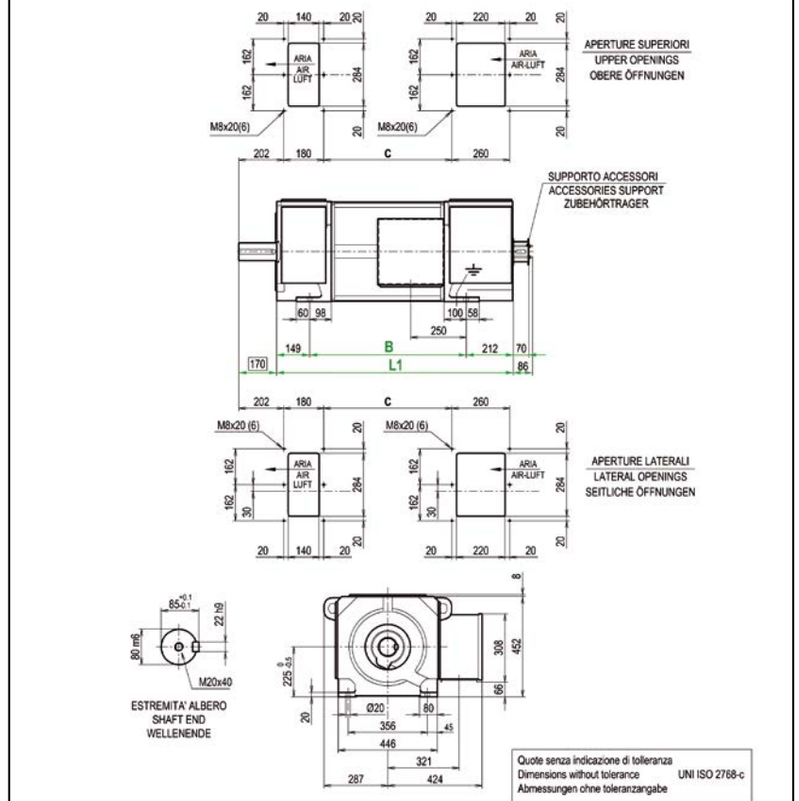
Nidec
All for dreams

DC MOTORS

GH225 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 2900 Field time costant (s): 0.68 Motor mass (kg): 965 (IC06) Moment of inertia (kg m²): 2.4			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
	340					57		78.0			
		360				61	185	79.0	3.180	0.418	15
			400			68		80.7			
				465		79		82.7			
	310					50		76.5			
		320				54	165	77.5	4.381	0.505	16
			360			60		79.3			
				420		70		81.5			

GH225 IM1001 - IP44 - IC37



Size	B	L1	C
GH225 S	655	1016	527
GH225 M	705	1066	577
GH225 L	750	1111	622
GH225 P	800	1161	672
GH225 X	850	1211	722

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

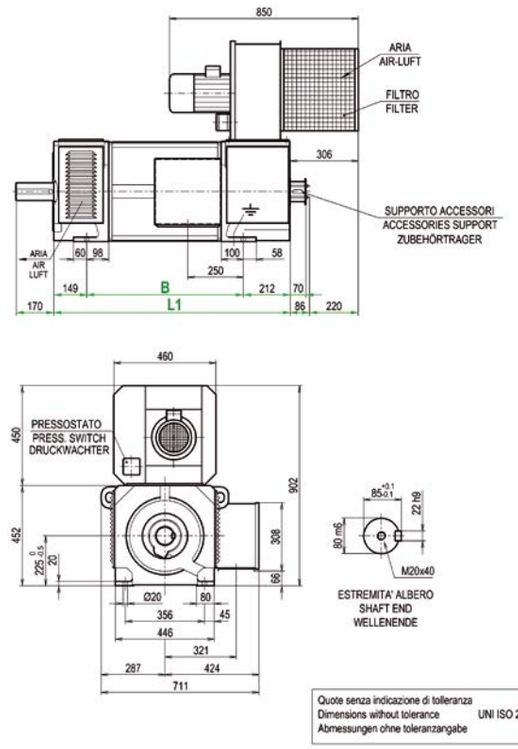
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

Nidec
All for dreams

GH225 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 3200 Field time costant (s): 0.71 Motor mass (kg): 1040 (IC06) Moment of inertia (kg m²): 2.6			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
770						144	750	88.0			
	1470					276	750	92.4			
		1550				290	750	92.7	0.221	0.027	1
			1720			308	720	93.1			
				1970		336	690 93.8				
700						126	655	87.6			
	1350					235	640	92.2			
		1410				247	640	92.5	0.286	0.033	2
			1580			267	625	92.9			
				1800		300	615	93.5			
630						110	585	85.6			
	1220					210	575	91.1			
		1300				220	575	91.4	0.314	0.042	3
			1420			243	575	92.0			
				1630		273	568	92.5			
					1900	305	545	93.4			
560						105	560	85.3			
	1100					200	550	90.9			
		1150				210	550	91.3	0.397	0.048	4
			1260			225	535	91.9			
				1450		250	520	92.7			
					1690	280	500	93.3			
500						90	495	82.4			
	980					173	485	89.4			
		1030				183	485	89.8	0.500	0.064	5
			1150			202	485	90.5			
				1300		225	475	91.4			
					1520	257	465	92.2			
450						80	450	82.0			
	900					157	440	89.3			
		950				165	440	89.7	0.512	0.074	6
			1050			183	440	90.4			
				1200		200	425	91.2			
					1400	230	415	92.1			
430						76	430	80.3			
	850					148	420	88.3			
		900				156	420	88.8	0.538	0.073	7
			1000			173	420	89.6			
				1140		195	415	90.5			
					1320	222	405	91.5			

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

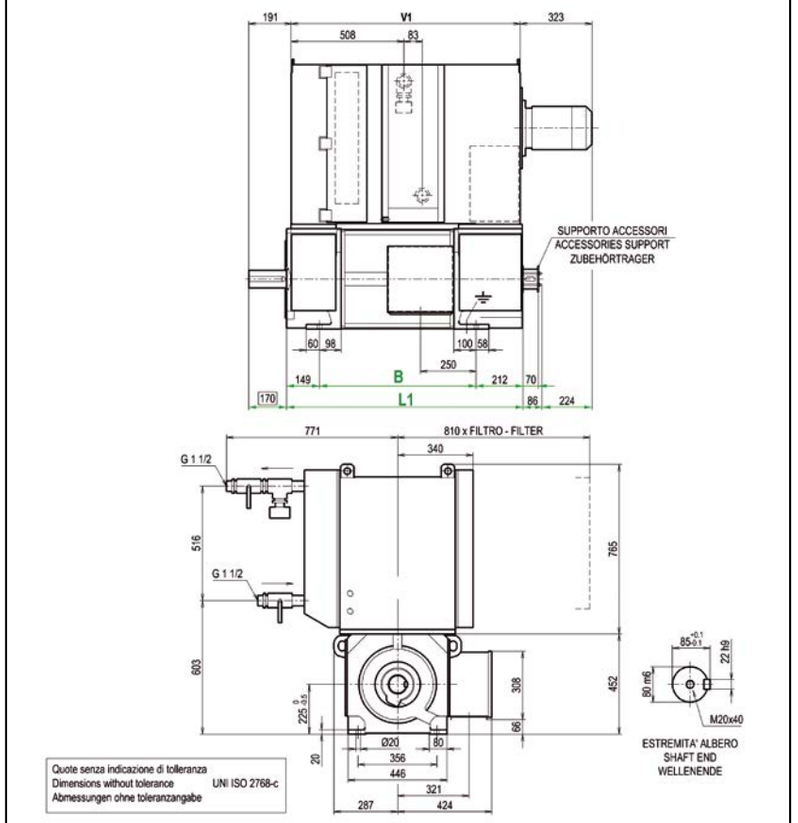
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

Nidec
All for dreams

GH225 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 3200 Field time costant (s): 0.71 Motor mass (kg): 1040 (IC06) Moment of inertia (kg m²): 2.6			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
340						65	380	78.2			
	680					130	375	87.2			
		720				135	370	87.7	0.981	0.111	8
			800			150	370	88.6			
				910		168	360	89.7			
300						55	330	75.3			
	610					111	325	85.6			
		650				118	325	86.2	1.074	0.141	9
			720			130	325	87.2			
				820		147	320	88.5			
270						47	290	74.0			
	560					97	288	84.9			
		590				103	288	85.5	1.229	0.170	10
			660			114	288	86.6			
				750		131	288	87.9			
					880	154	288	89.3			
490						89		84.6			
	520					94		85.2			
		580				105	265	86.4	1.583	0.195	11
			670			120		87.7			
				790		141		89.1			
440						78		81.6			
	460					83		82.4			
		520				92	241	83.8	1.828	0.262	12
			590			107		85.4			
				700		126		87.1			
400						69		80.5			
	420					73		81.4			
		470				82	216	82.8	2.140	0.309	13
			540			95		84.6			
				640		112		86.4			
380						67		78.9			
	400					71		79.8			
		450				79	210	81.4	2.228	0.324	14
			520			92		83.4			
				610		107		85.3			

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

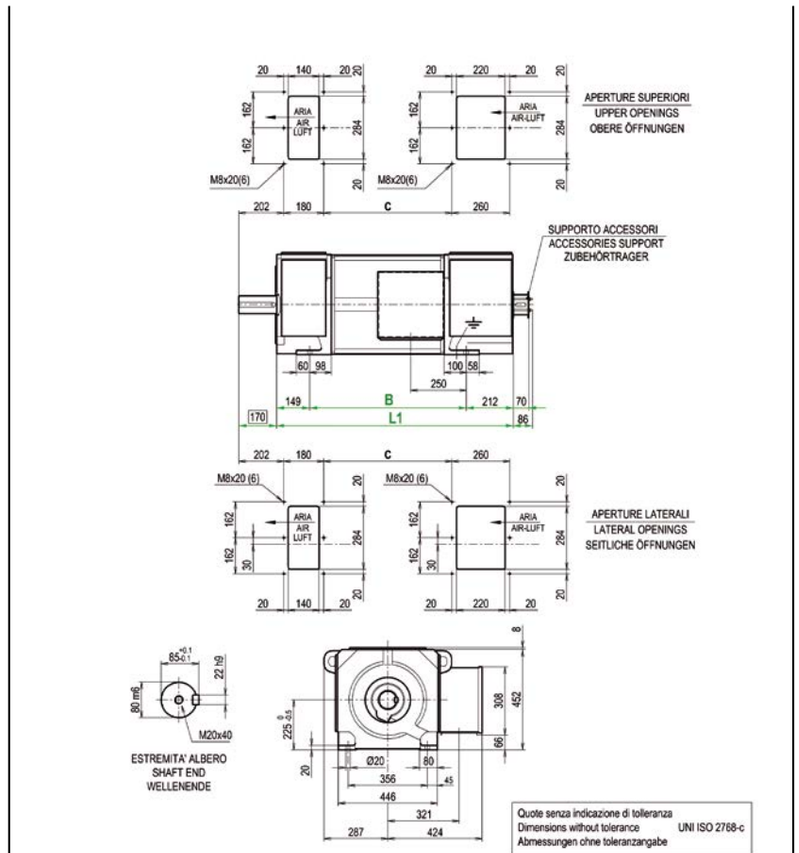
Nidec
All for dreams

DC MOTORS

GH225 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 3200 Field time costant (s): 0.71 Motor mass (kg): 1040 (IC06) Moment of inertia (kg m²): 2.6			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
	300					56		76.7			
		320				60	185	77.7	3.523	0.446	15
			360			67		79.5			
				410		78		81.7			
	270					49		75.1			
		290				53	165	76.2	4.856	0.539	16
			320			59		78.1			
				370		68		80.4			

GH225 IM1001 - IP44 - IC37



Size	B	L1	C
GH225 S	655	1016	527
GH225 M	705	1066	577
GH225 L	750	1111	622
GH225 P	800	1161	672
GH225 X	850	1211	722

TECHNICAL DATA

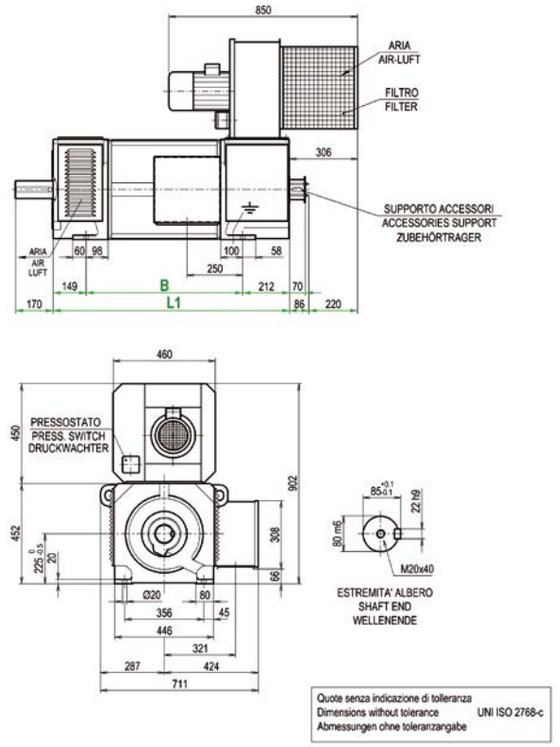
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

GH225 IM1001 - IP23 - IC06



Size	B	L1
GH225 S	655	1016
GH225 M	705	1066
GH225 L	750	1111
GH225 P	800	1161
GH225 X	850	1211

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

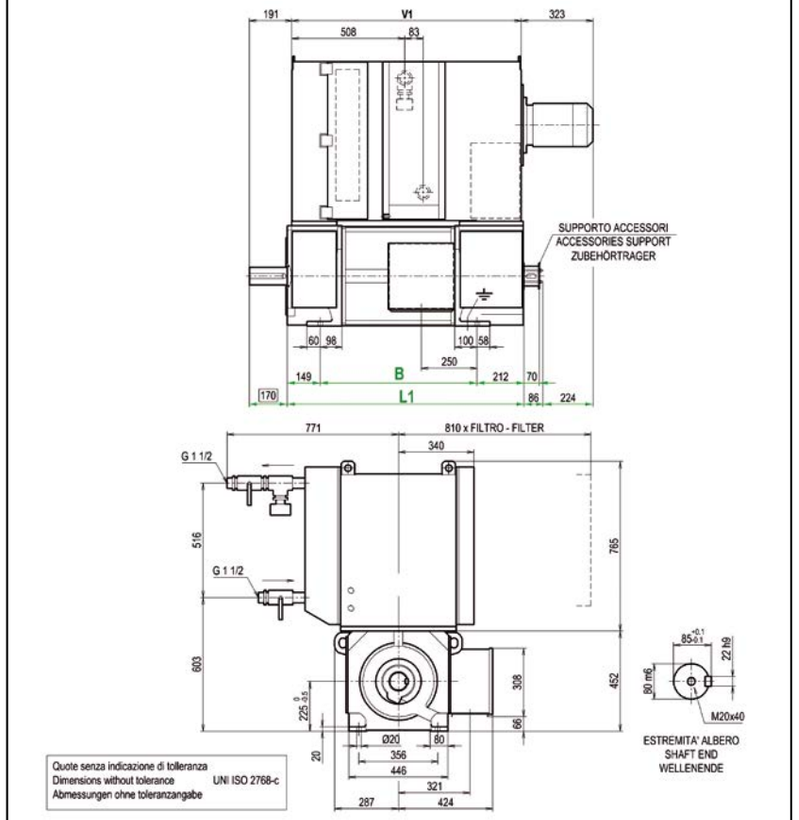
Electrical blower (IC06)	Weight	Blower motor power
	40 kg	2.2 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	240 kg	3.0 kW (50/60 Hz)

Nidec
All for dreams

DC MOTORS

GH225 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH225 S	655	1016	982
GH225 M	705	1066	1032
GH225 L	750	1111	1077
GH225 P	800	1161	1127
GH225 X	850	1211	1177

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

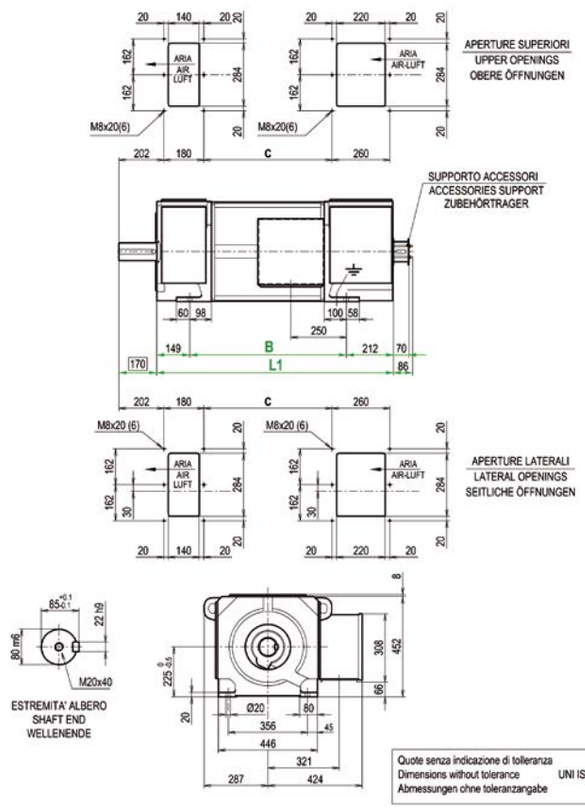
Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power	
	40 kg	2.2 kW (50/60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	240 kg	3.0 kW (50/60 Hz)	

GO TO MENU

GH225 IM1001 - IP44 - IC37



Size	B	L1	C
GH225 S	655	1016	527
GH225 M	705	1066	577
GH225 L	750	1111	622
GH225 P	800	1161	672
GH225 X	850	1211	722

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH225 S	755	1.75	2400	0.68	3000	50	1400
GH225 M	810	1.95	2600	0.77	3000	50	1400
GH225 L	870	2.2	3000	0.81	3000	50	1400
GH225 P	925	2.4	3300	0.84	3000	50	1400
GH225 X	1000	2.6	3500	0.87	3000	50	1400
GH225 SK	755	1.75	2100	0.58	3000	50	1400
GH225 MK	810	1.95	2400	0.62	3000	50	1400
GH225 LK	870	2.2	2600	0.65	3000	50	1400
GH225 PK	925	2.4	2900	0.68	3000	50	1400
GH225 XK	1000	2.6	3200	0.71	3000	50	1400

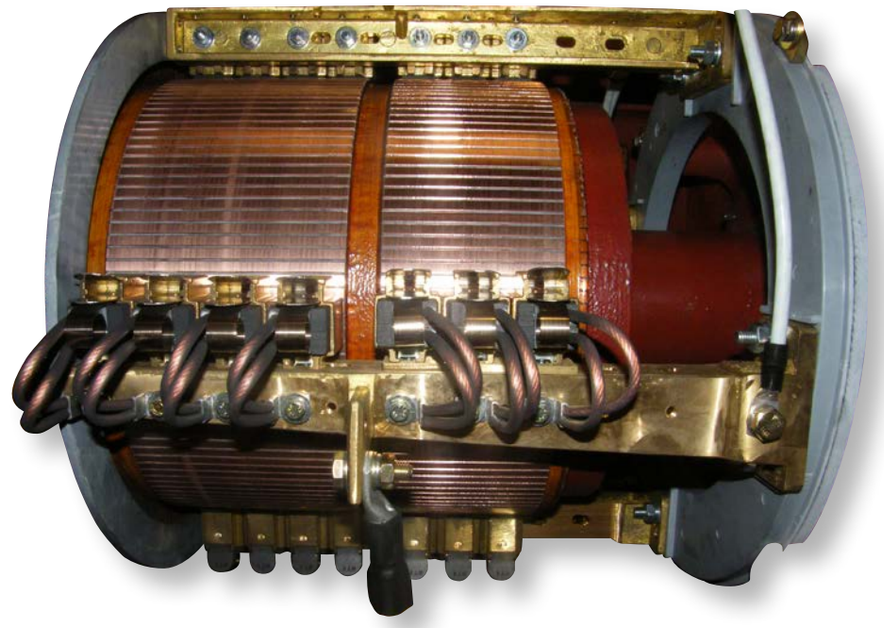
Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH225 S-M-L-P-X	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power	
	40 kg	2.2 kW (50/60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	240 kg	3.0 kW (50/60 Hz)	

DC MOTORS

GH250

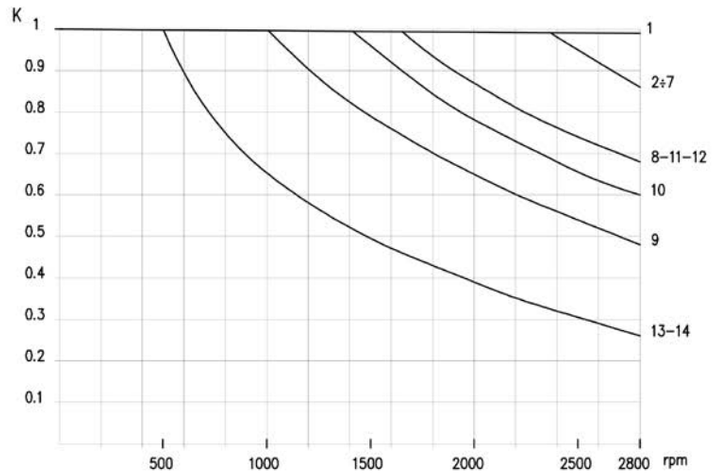


Performance Tables are displayed on multiple pages, alongside the data tables are repeated alternately overall dimensions (IC06- IC86W-IC37)

GH 250 K

RIDUZIONE DELLA POTENZA IN DISECCITAZIONE
DERATING FOR FIELD WEAKENING OPERATION
LEISTUNGSREDUZIERUNG BEI FELDSWÄCHUNG

GH 250 K (compensata - compensated - kompensiert)
[180% sovraccarico - overload - überlast]



P = K x P tabella potenza disponibile	Allowable power output P = K x P table	Werfügbare Leistung P = K x P table
per/for/für	GH 250 MK	K = K x 1.33
	GH 250 LK	K = K x 1.16
	GH 250 XK	K = K x 1.0
Per K ≥ 1 niente declassamento	For K ≥ 1 no derating	Für K ≥ 1 keine Leistungreduzierung

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

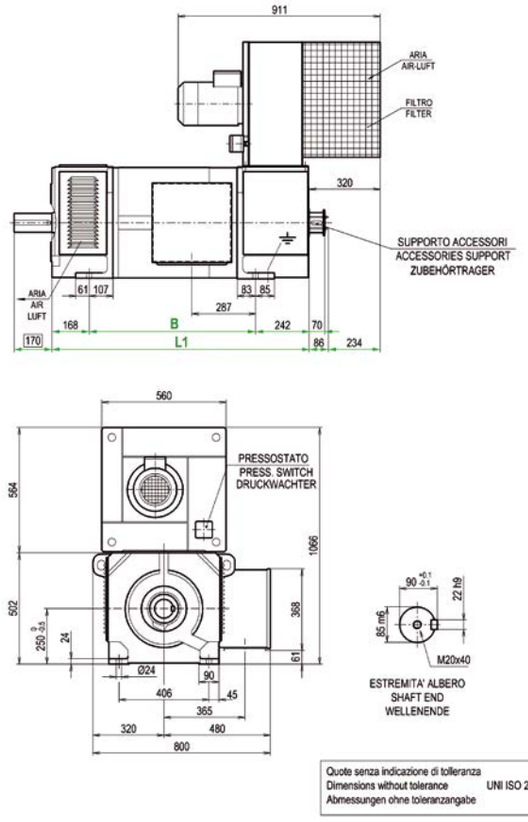
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	300 kg	4.0 / 5.5 kW (50/60 Hz)

DC MOTORS

GH250 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 3200 Field time costant (s): 1.01 Motor mass (kg): 1170 (IC06) Moment of inertia (kg m²): 3.37			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
950						161	822	90.0			
	1800					305	815	93.4			
		1890				320	815	93.6	0.186	0.017	1
			2080			350	810	93.8			
				2360		396	810	94.2			
800						158	806	89.1			
	1500					290	780	93.0			
		1570				305	780	93.2	0.269	0.022	2
			1730			330	765	93.5			
				1970		360	735	94.1			
					2300	410	725	94.4			
700						141	730	88.0			
	1320					260	700	92.5			
		1400				272	700	92.6	0.409	0.027	3
			1540			300	700	93.0			
				1760		321	660	93.8			
					2050	370	653	94.2			
610						117	625	86.3			
	1200					223	610	91.4			
		1250				235	610	91.7	0.358	0.037	4
			1370			260	610	92.4			
				1560		294	610	92.8			
					1810	342	610	93.4			
570						104	555	85.3			
	1050					198	545	91.0			
		1100				208	545	91.2	0.538	0.046	5
			1220			230	545	91.7			
				1390		262	545	92.4			
					1610	304	545	93.1			
490						83		83.6			
	930					163		90.0			
		980				172	454	90.4	0.499	0.062	6
			1080			190		91.0			
				1250		216		91.8			
					1440	252		92.5			
380						72		81.9			
	760					143		89.1			
		800				150	400	89.5	0.847	0.080	7
			880			166		90.2			
				1000		189		91.1			

GH250 IM1001 - IP23 - IC06



Size	B	L1
GH250 M	810	1220
GH250 L	870	1280
GH250 X	950	1360

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	300 kg	4.0 / 5.5 kW (50/60 Hz)

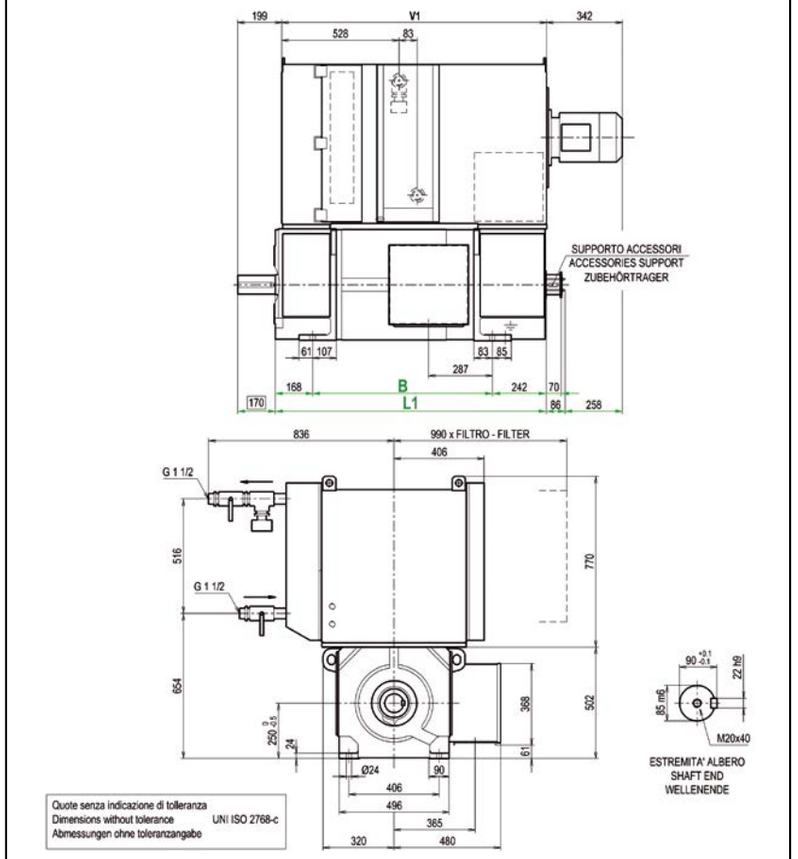
Nidec
All for dreams

DC MOTORS

GH250 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 3200 Field time costant (s): 1.01 Motor mass (kg): 1170 (IC06) Moment of inertia (kg m²): 3.37			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
340						64		80.0			
	680					128		88.0			
		720				135	364	88.3	0.904	0.101	8
			800			150		89.2			
				910		170		90.2			
					1060	200		91.3			
310						56		76.4			
	615					116		86.2			
		650				122	337	86.7	1.460	0.130	9
			710			135		87.7			
				800		156		89.2			
					940	182		90.1			
270						52		76.3			
	550					106		86.2			
		580				112	310	86.7	1.408	0.141	10
			640			125		87.7			
				740		143		88.9			
					860	167		90.1			
240						43		71.7			
	480					93		84.1			
		500				97	275	84.4	2.226	0.195	11
			550			109		85.7			
				640		125		87.5			
					750	146		88.5			
210						36		71.3			
	430					76		83.4			
		450				81	230	84.1	1.958	0.236	12
			500			90		85.3			
				580		103		86.8			
					680	121		88.3			
	340					67		80.3			
		360				71	210	81.1	3.388	0.318	13
			400			79		82.6			
				480		92		84.4			
	250					50		76.3			
		265				52	163	76.7			
			300			59		78.8	5.841	0.520	14
				350		68		81.0			
					420	81		83.2			

GH250 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH250 M	436	761	706
GH250 L	491	816	761
GH250 X	546	871	816

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

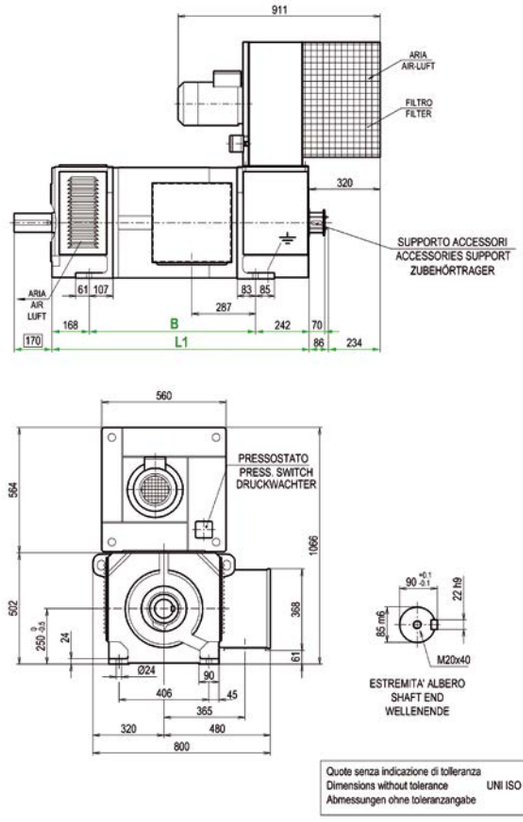
Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	300 kg	4.0 / 5.5 kW (50/60 Hz)	

GH250 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 3600 Field time costant (s): 1.05 Motor mass (kg): 1250 (IC06) Moment of inertia (kg m²): 3.73			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
830						163 8	27	89.5			
	1590					303	815	93.0			
		1650				319	815	93.2	0.211	0.019	1
			1820			350	810	93.8			
				2050		396	810	94.1			
710						156	810	88.0			
	1320					290	780	92.7			
		1380				304	780	92.9	0.306	0.024	2
			1510			328	765	93.3			
				1720		360	735	94.0			
					2000	410	725	94.3			
610						140	730	87.3			
	1160					258	700	92.0			
		1220				272	700	92.3	0.466	0.029	3
			1350			298	700	92.8			
				1540		321	660	93.6			
					1800	370	655	94.0			
550						117	625	85.4			
	1040					222	610	91.0			
		1080				234	610	91.3	0.407	0.040	4
			1200			258	610	91.9			
				1370		294	610	92.5			
					1600	341	610	93.2			
490						103	555	84.2			
	920					197	545	90.4			
		960				207	545	90.7	0.612	0.050	5
			1070			229	545	91.3			
				1210		261	545	92.1			
					1410	303	545	92.8			
420						82		82.6			
	810					162		89.5			
		850				171	455	89.8	0.566	0.067	6
			940			189		90.5			
				1080		216		91.3			
					1250	251		92.2			
340						71		80.7			
	660					142		88.5			
		690				150	400	88.9	0.964	0.086	7
			770			165		89.7			
				880		188		90.6			

GH250 IM1001 - IP23 - IC06



Size	B	L1
GH250 M	810	1220
GH250 L	870	1280
GH250 X	950	1360

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	300 kg	4.0 / 5.5 kW (50/60 Hz)

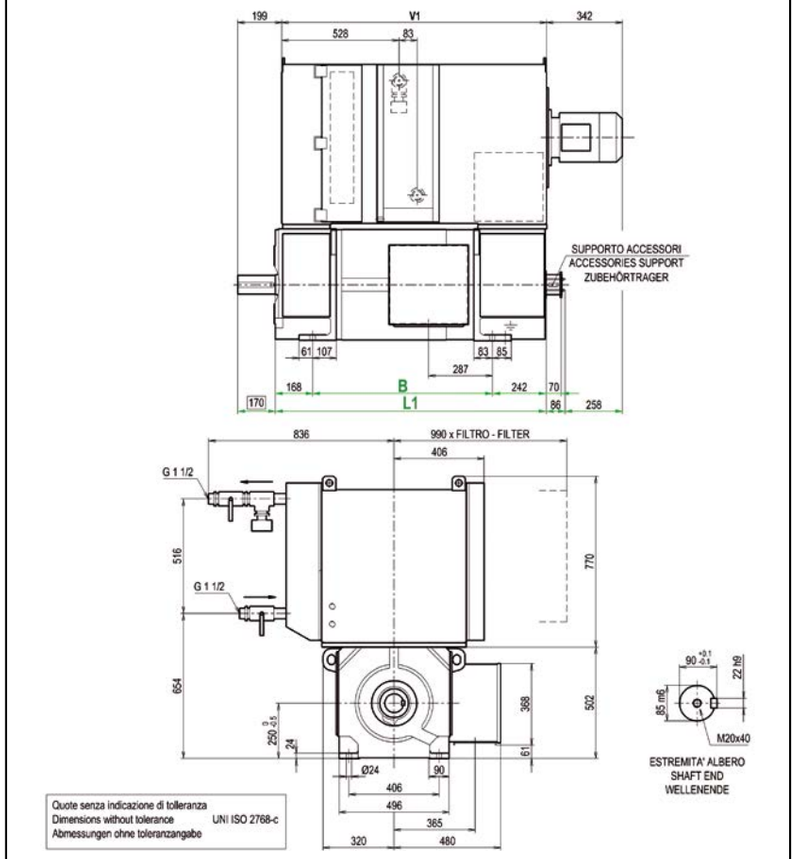
Nidec
All for dreams

DC MOTORS

GH250 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 3600 Field time costant (s): 1.05 Motor mass (kg): 1250 (IC06) Moment of inertia (kg m²): 3.73			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
300						63		78.1			
	600					127		87.1			
		630				134	364	87.6	1.028	0.110	8
			690			148		88.5			
				800		170		89.6			
					930	198		90.7			
270						56		75.6			
	530					116		85.5			
		560				122	337	86.0	1.663	0.141	9
			600			135		87.0			
				700		156		88.6			
					820	180		89.5			
240						51		74.6			
	480					105		85.2			
		500				111	310	85.8	1.602	0.153	10
			560			123		86.9			
				650		142		88.2			
					750	166		89.5			
200						43		70.5			
	410					92		82.6			
		430				96	276	83.2	2.536	0.211	11
			480			108		84.5			
				550		123		86.1			
					650	145		87.7			
	370					75		82.2			
		390				80	230	83.0	2.228	0.256	12
			430			89		84.3			
				500		102		85.9			
					590	120		87.5			
	290					66		79.0			
		310				70	210	79.7	3.858	0.345	13
			350			78		81.3			
				410		90		83.3			
	220					49		74.4			
		230				52	163	75.2	6.652	0.564	14
			260			57		76.9			
				300		68		80.0			
					360	80		81.9			

GH250 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH250 M	436	761	706
GH250 L	491	816	761
GH250 X	546	871	816

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

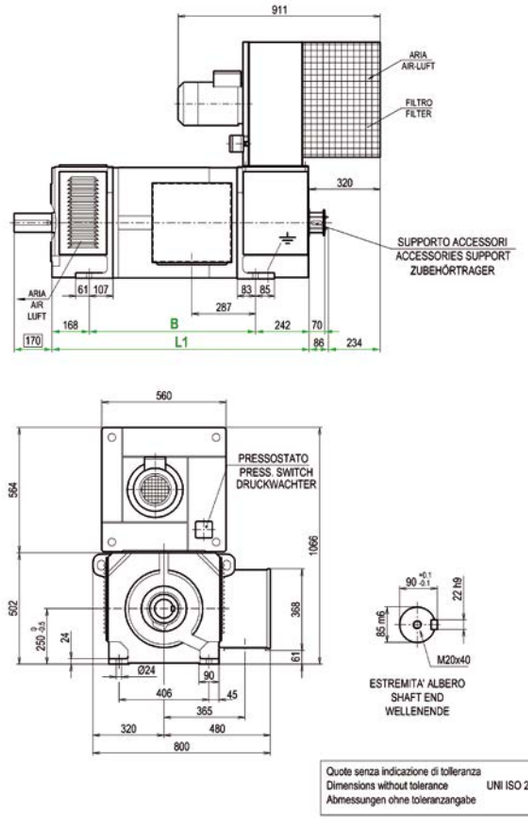
Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	300 kg	4.0 / 5.5 kW (50/60 Hz)

GH250 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 4000 Field time costant (s): 1.09 Motor mass (kg): 1350 (IC06) Moment of inertia (kg m²): 4.20			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
710						161	825	88.8			
	1350					302	815	92.7			
		1410				318	815	92.9	0.245	0.021	1
			1560			347	810	93.3			
				1800		395	810	93.7			
580						155	810	87.2			
	1120					288	780	92.2			
		1170				303	780	92.5	0.356	0.027	2
			1300			328	765	93.1			
				1470		358	735	93.5			
					1750	409	725	94.0			
520						139	730	86.3			
	990					257	700	91.6			
		1050				270	700	92.0	0.542	0.032	3
			1150			297	700	92.4			
				1310		320	660	93.2			
					1550	370	655	93.8			
450						116	625	84.3			
	900					220	610	90.5			
		930				232	610	90.8	0.473	0.044	4
			1030			256	610	91.4			
				1180		292	610	92.1			
					1380	340	610	92.9			
400						101	555	83.2			
	780					195	545	89.7			
		820				206	545	90.1	0.711	0.055	5
			910			227	545	90.8			
				1030		259	545	91.6			
					1200	302	545	92.4			
340						81		81.1			
	690					161		88.7			
		720				170	455	89.1	0.656	0.074	6
			800			188		89.9			
				900		215		90.8			
					1050	250		91.7			
280						69		79.0			
	560					140		87.6			
		590				148	400	88.1	1.121	0.095	7
			650			163		88.9			
				750		187		90.0			

GH250 IM1001 - IP23 - IC06



Size	B	L1
GH250 M	810	1220
GH250 L	870	1280
GH250 X	950	1360

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

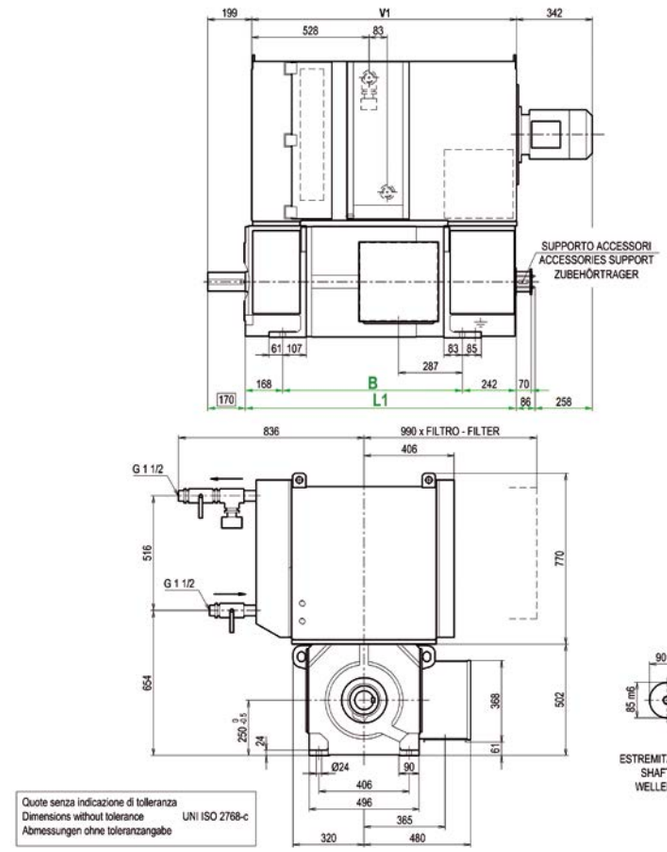
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	300 kg	4.0 / 5.5 kW (50/60 Hz)

Nidec
All for dreams

GH250 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 4000 Field time costant (s): 1.09 Motor mass (kg): 1350 (IC06) Moment of inertia (kg m²): 4.20			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
250						62		77.0			
	500					125		86.1			
		530				132	364	86.7	1.195	0.121	8
			590			146		87.6			
				680		168		88.8			
					790	196		90.0			
220						53		72.3			
	450					113		84.0			
		480				119	337	84.7	1.933	0.156	9
			530			133		85.8			
				600		152		87.3			
					710	179		88.7			
190						49		72.3			
	400					104		84.0			
		430				110	310	84.7	1.862	0.169	10
			470			122		85.8			
				540		140		87.2			
					640	165		88.7			
	340					89		80.9			
		360				94	276	81.7			
			410			105		83.2	2.949	0.233	11
				470		121		84.9			
					550	143		86.7			
310						74		80.7			
	330					78	230	81.5			
		370				87		83.0	2.588	0.282	12
			420			101		84.7			
				500		119		86.5			
250						64		76.8			
	260					68	210	77.8	4.484	0.382	13
		290				76		79.6			
			340			89		81.8			
180						46		71.2			
	190					49	163	72.5			
		220				56		74.8	7.733	0.622	14
			250			65		77.5			
				300		78		80.3			

GH250 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH250 M	436	761	706
GH250 L	491	816	761
GH250 X	546	871	816

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

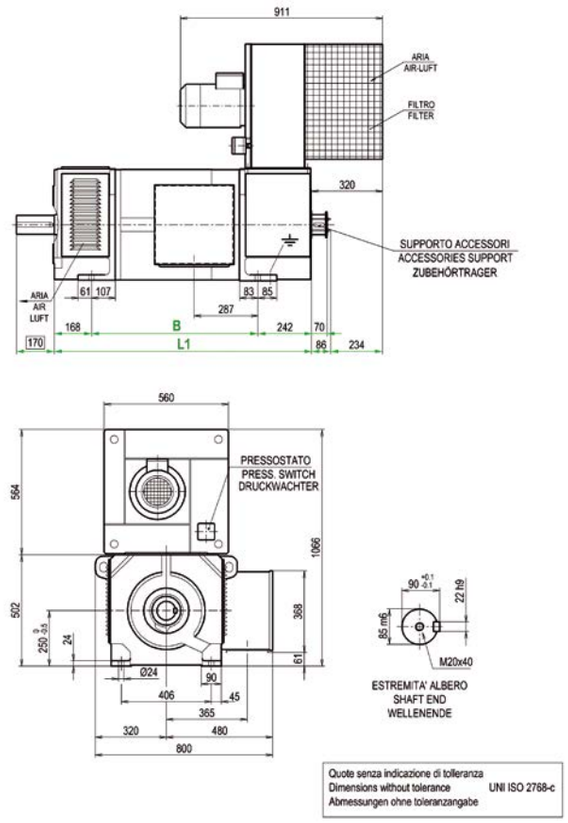
Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	300 kg	4.0 / 5.5 kW (50/60 Hz)

Nidec
All for dreams

GH250 IM1001 - IP23 - IC06



Size	B	L1
GH250 M	810	1220
GH250 L	870	1280
GH250 X	950	1360

TECHNICAL DATA

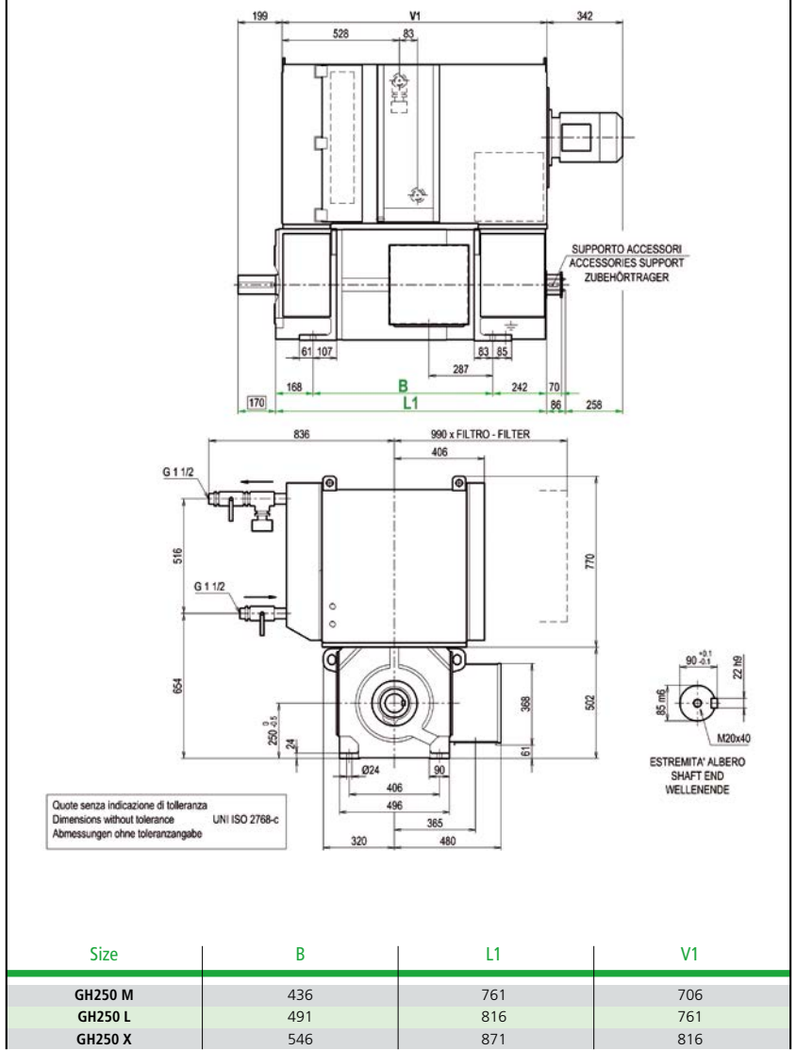
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	300 kg	4.0 / 5.5 kW (50/60 Hz)

GH250 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH250 M	436	761	706
GH250 L	491	816	761
GH250 X	546	871	816

TECHNICAL DATA

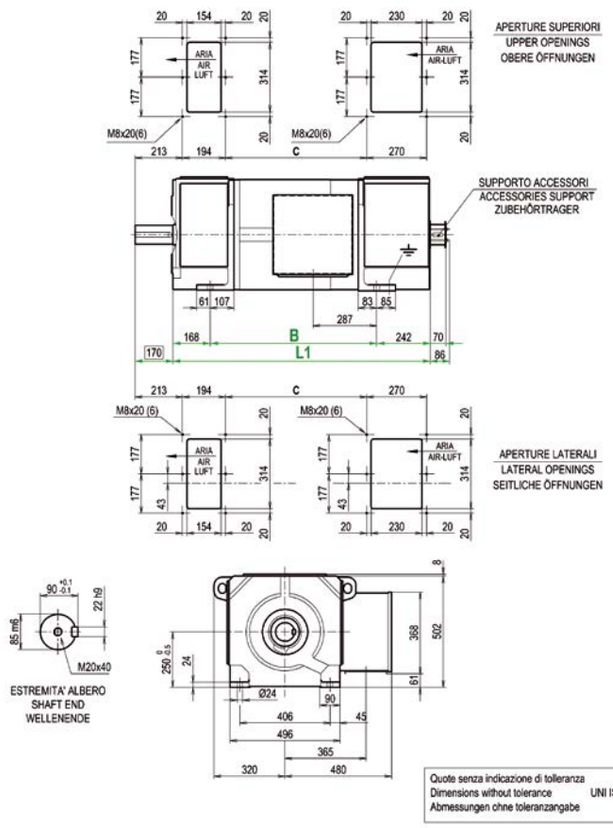
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	300 kg	4.0 / 5.5 kW (50/60 Hz)

GH250 IM1001 - IP44 - IC37



Size	B	L1	C
GH250 M	810	1220	696
GH250 L	870	1280	756
GH250 X	950	1360	836

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH250 MK	1080	3.37	3200	1.01	2800	70	1400
GH250 LK	1160	3.73	3600	1.05	2800	70	1400
GH250 XK	1260	4.20	4000	1.09	2700	70	1400

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH250 MK-LK-XK	6218 2Z C3	NU218ECP C3	6217 2Z C3

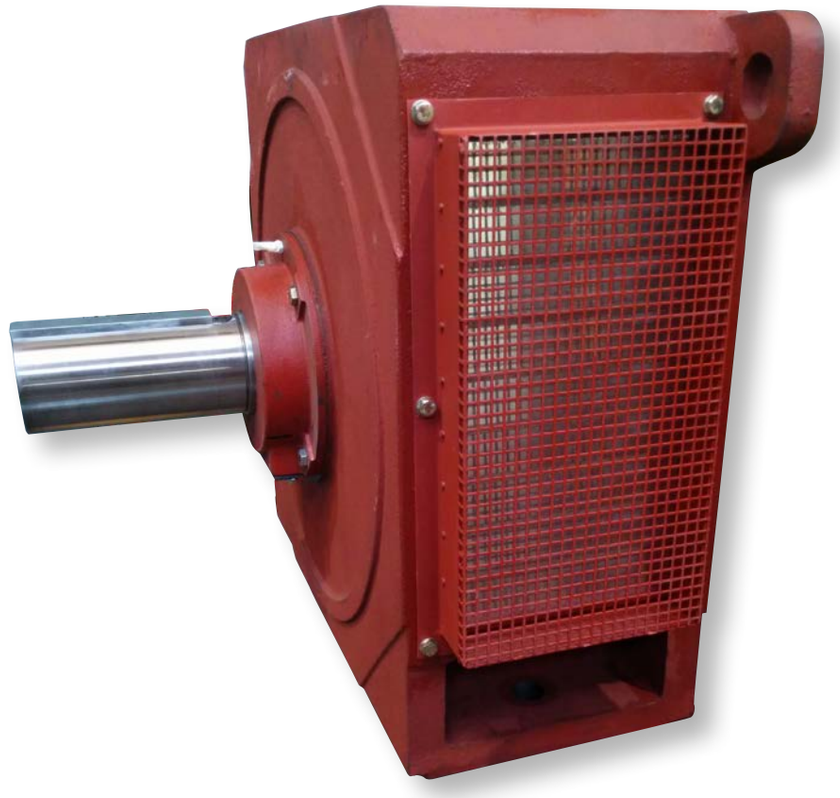
Electrical blower (IC06)	Weight	Blower motor power
	90 kg	3.0 kW (50/60 Hz) - 4.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	300 kg	4.0 / 5.5 kW (50/60 Hz)

Nidec
All for dreams

DC MOTORS

GH280



Performance Tables are displayed on multiple pages, alongside the data tables are repeated alternately overall dimensions (IC06- IC86W-IC37)

Nidec SISTEMI INDUSTRIALI

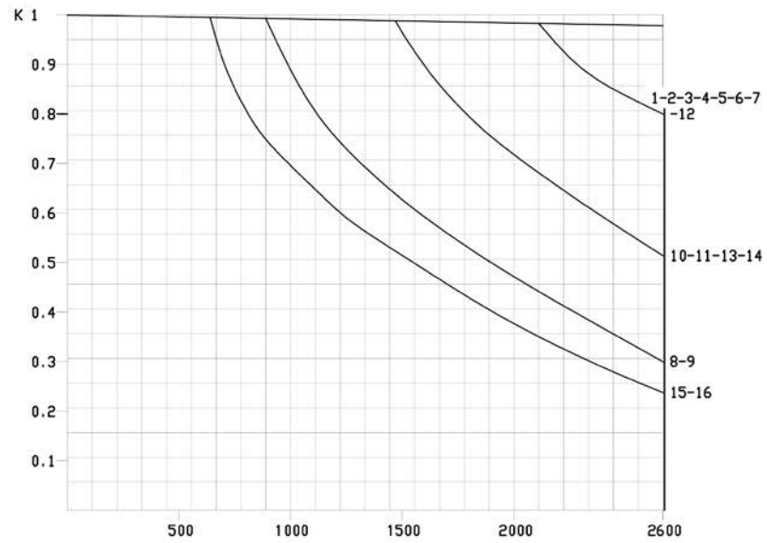
Nidec
All for dreams

DC MOTORS

GH 280 K

RIDUZIONE DELLA POTENZA IN DISECCITAZIONE
DERATING FOR FIELD WEAKENING OPERATION
LEISTUNGSREDUZIERUNG BEI FELDSWÄCHUNG

GH 280 K (compensata - compensated - kompensiert)
[180% sovraccarico - overload - überlast]



P = K x P tabella potenza disponibile	Allowable power output P = K x P table		Werfügbare Leistung P = K x P table
per/for/für	GH 280 SK	K = K x 1.30	
	GH 280 MK	K = K x 1.20	
	GH 280 LK	K = K x 1.12	
	GH 280 PK	K = K x 1.0	
Per K ≥ 1 niente declassamento	For K ≥ 1 no derating		Für K ≥□1 keine Leistungreduzierung

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

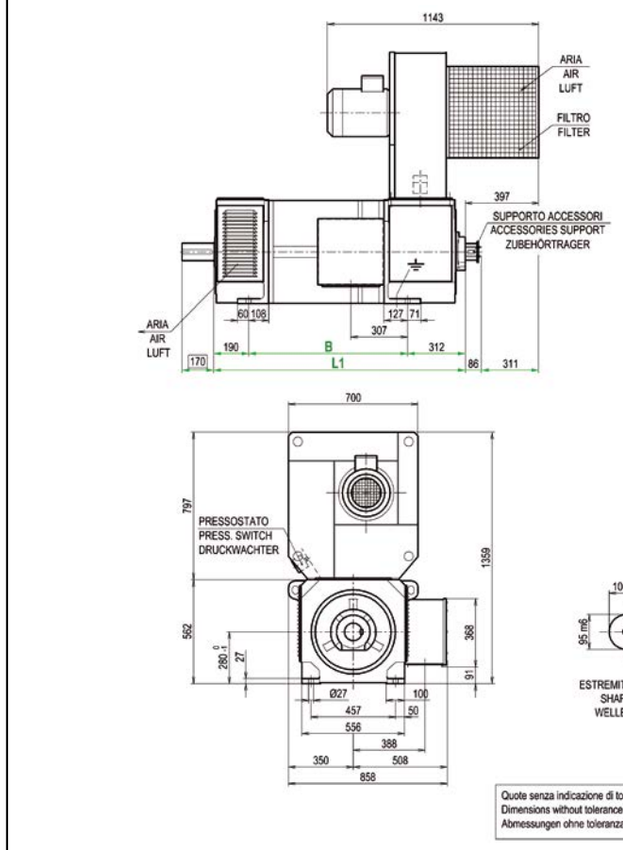
Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	370 kg	5.5 / 7.5 kW (50/60 Hz)

GH280 SK

Rated speed (rpm) at armature voltage						Excitation power (W): 3400 Field time costant (s): 1.07 Motor mass (kg): 1505 (IC06) Moment of inertia (kg m²): 4.9			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
750						210	1080	88.4			
	1450					405	1100	92.5			
		1530				428	1100	92.8	0.142	0.017	1
			1730			472	1100	93.3			
				1950		514	1055	93.6			
690						192	990	88.2			
	1310					362	980	92.6			
		1380				382	980	93.0	0.209	0.019	2
			1520			421	980	93.4			
				1760		467	960	93.7			
					2060	542	960	94.2			
620						170	885	87.4			
	1200					322	875	92.1			
		1260				340	875	92.3	0.187	0.024	3
			1380			373	875	92.8			
				1610		424	875	93.4			
					1870	484	860	93.9			
550						148		85.8			
	1060					286		91.3			
		1120				302	785	91.5	0.256	0.031	4
			1220			333		92.1			
				1400		380		92.8			
					1630	440		93.5			
500						133		85.0			
	960					259		90.8			
		1010				275	715	91.2	0.374	0.036	5
			1120			302		91.7			
				1270		343		92.5			
					1480	400		93.2			
450						119		83.6			
	880					234		90.1			
		930				247	650	90.4	0.305	0.045	6
			1020			273		91.3			
				1180		310		91.9			
					1350	360		92.7			
380						102		81.7			
	760					203		89.1			
		800				215	570	89.4	0.572	0.058	7
			880			237		90.3			
				1000		270		91.2			
					1200	312		92.0			

GH280 IM1001 - IP23 - IC06



Size	B	L1
GH280 S	860	1362
GH280 M	910	1412
GH280 L	960	1462
GH280 P	1020	1522

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

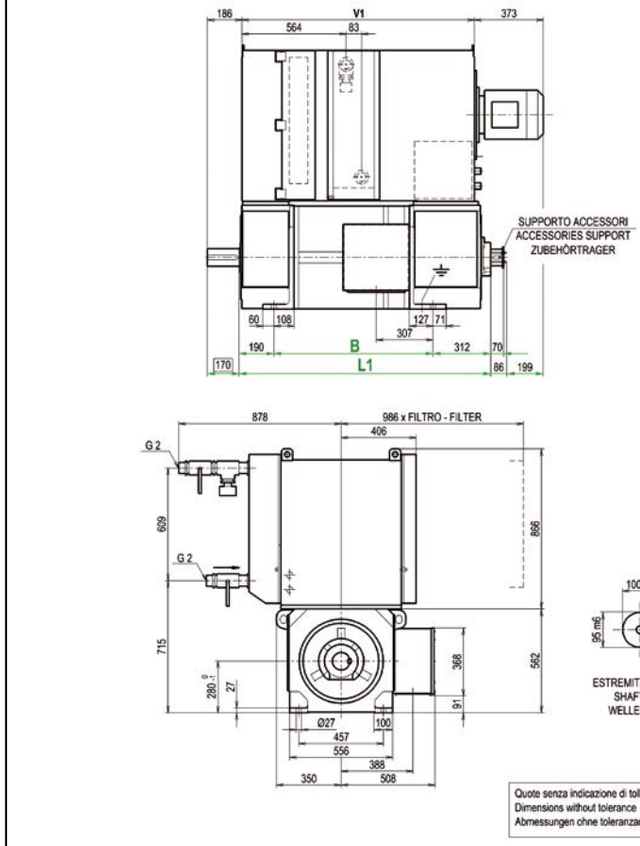
Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	370 kg	5.5 / 7.5 kW (50/60 Hz)

GH280 SK

Rated speed (rpm) at armature voltage						Excitation power (W): 3400 Field time costant (s): 1.07 Motor mass (kg): 1505 (IC06) Moment of inertia (kg m²): 4.9			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
330						94		80.0			
	670					189		88.2			
		710				200	537	88.6	0.589	0.068	8
			780			222		89.7			
				890		253		90.5			
300						86		79.4			
	610					172		87.8			
		640				181	490	88.3	0.871	0.078	9
			700			201		89.3			
				810		230		90.3			
					950	268		91.2			
270						75		78.0			
	550					151		86.9			
		580				160	435	87.4	0.741	0.097	10
			650			177		88.5			
				740		202		89.5			
					865	236		90.6			
210						56		72.5			
	440					119		84.2			
		465				127	355	84.7	1.546	0.148	11
			510			140		85.7			
				590		161		87.5			
					690	189		88.9			
	400					106		82.7			
		420				113	323	83.4			
			460			126		85.1	1.241	0.181	12
				540		145		86.3			
					630	170		87.9			
	370					103		82.2			
		390				110	316	82.9			
			440			123		84.6	1.655	0.191	13
				510		141		85.9			
					590	166		87.6			
	340					91		80.9			
		360				98	283	81.8			
			400			110		83.6	2.399	0.231	14
				460		125		85.0			
					540	147		86.7			

GH280 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH280 S	860	1362	1258
GH280 M	910	1412	1308
GH280 L	960	1462	1358
GH280 P	1020	1522	1418

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

Electrical blower (IC06)	Weight	Blower motor power	
	105 kg	5.5 kW (50/60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	370 kg	5.5 / 7.5 kW (50/60 Hz)	

Nidec
All for dreams

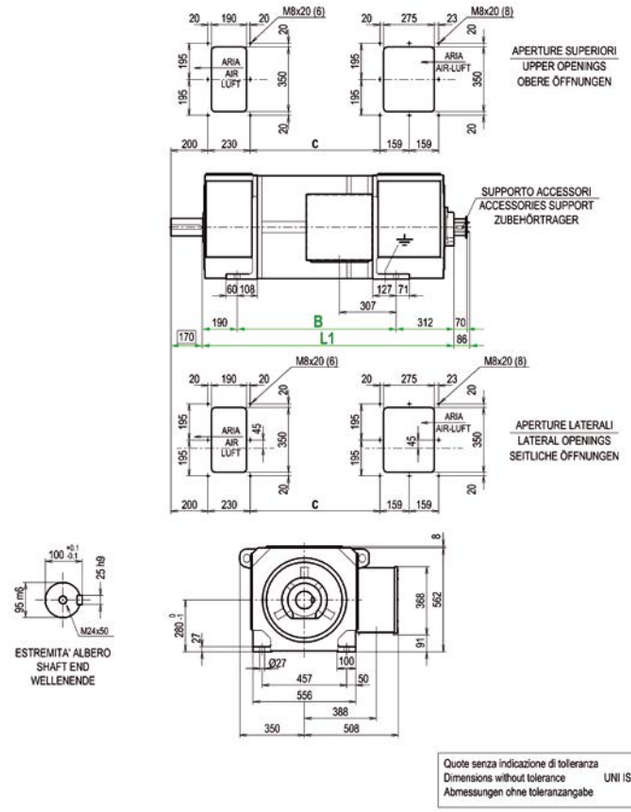
DC MOTORS

GH225 GH250 **GH280** GH315 GH355 GH400 GH450

GH280 SK

Rated speed (rpm) at armature voltage						Excitation power (W): 3400 Field time costant (s): 1.07 Motor mass (kg): 1505 (IC06) Moment of inertia (kg m²): 4.9			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
	300					85		78.8			
		320				91	270	79.8	2.358	0.273	15
			360			102		81.9			
				410		118		83.4			
	270					76		78.1			
		290				82	245	79.0			
			320			91		81.0	3.485	0.313	16
				370		105		82.8			
					440	124		84.9			

GH280 IM1001 - IP44 - IC37



Size	B	L1	C
GH280 S	860	1362	701
GH280 M	910	1412	751
GH280 L	960	1462	801
GH280 P	1020	1522	861

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

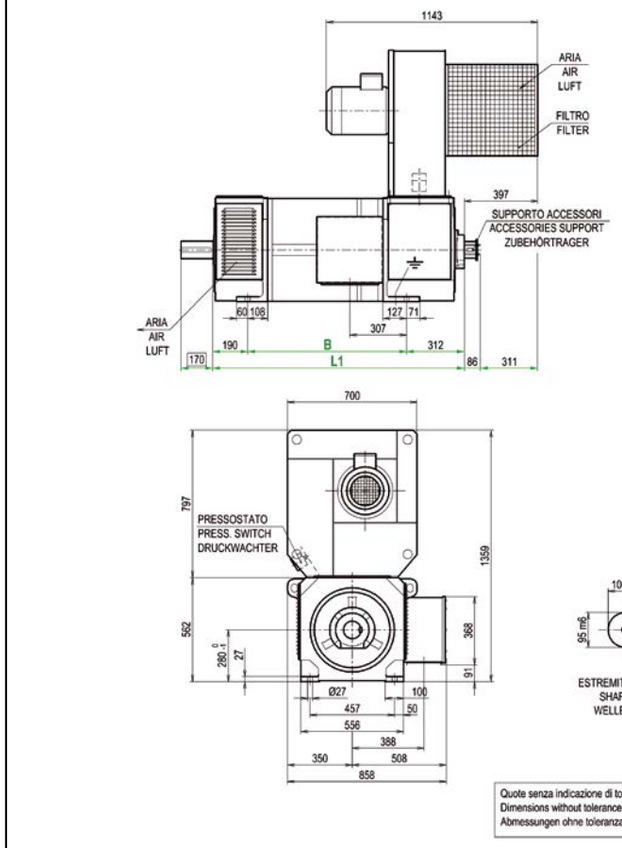
Electrical blower (IC06)	Weight	Blower motor power	
	105 kg	5.5 kW (50/60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	370 kg	5.5 / 7.5 kW (50/60 Hz)	

GH280 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 3700 Field time costant (s): 1.12 Motor mass (kg): 1605 (IC06) Moment of inertia (kg m²): 5.6			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
660						207	1080	87.9			
	1300					405	1100	92.3			
		1370				428	1100	92.6	0.158	0.018	1
			1510			470	1100	93.2			
				1730		512	1060	93.6			
600						191	990	87.7			
	1160					361	980	92.3			
		1220				380	980	92.5	0.233	0.020	2
			1370			419	980	93.0			
				1550		466	960	93.2			
					1820	540	960	93.8			
550						169	885	86.7			
	1060					321	875	91.8			
		1120				338	875	92.1	0.209	0.025	3
			1230			372	875	92.5			
				1400		423	875	93.2			
					1650	483	860	93.8			
480						147		85.2			
	940					285		91.0			
		990				301	785	91.3	0.286	0.033	4
			1090			332		92.0			
				1240		378		92.6			
					1440	440		93.3			
440						132		84.2			
	850					258		90.5			
		900				273	715	90.8	0.418	0.039	5
			990			301		91.6			
				1120		342		92.2			
					1310	397		92.9			
390						118		82.8			
	780					233		89.7			
		825				246	650	90.1	0.340	0.047	6
			900			272		91.0			
				1030		310		91.6			
					1200	360		92.4			
340						101		80.8			
	680					202		88.6			
		720				213	570	89.0	0.639	0.062	7
			780			236		90.0			
				900		269		90.8			
					1050	311		91.8			

GH280 IM1001 - IP23 - IC06



Size	B	L1
GH280 S	860	1362
GH280 M	910	1412
GH280 L	960	1462
GH280 P	1020	1522

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

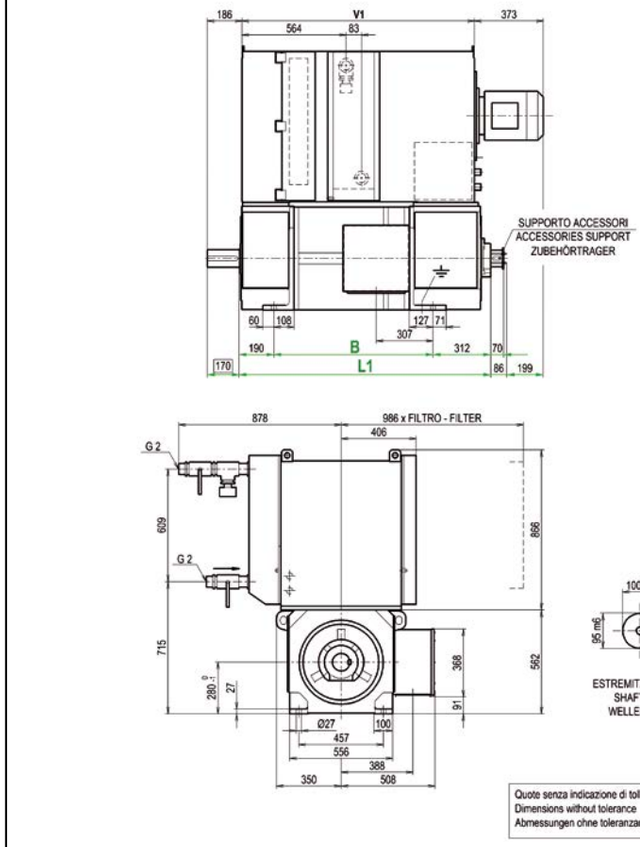
Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	370 kg	5.5 / 7.5 kW (50/60 Hz)

GH280 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 3700 Field time costant (s): 1.12 Motor mass (kg): 1605 (IC06) Moment of inertia (kg m²): 5.6			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
290						93		78.9			
	600					188		87.6			
		640				198	537	88.0	0.659	0.073	8
			680			220		89.2			
				780		251		90.1			
270						83		78.3			
	530					170		87.3			
		560				180	490	87.8	0.976	0.083	9
			620			200		88.9			
				710		228		89.8			
					830	266		90.8			
240						72		76.3			
	490					149		86.2			
		520				158	435	86.9	0.829	0.103	10
			570			176		88.0			
				650		202		89.0			
					760	235		90.2			
380						118		83.4			
	400					125	355	84.0			
			450			140		85.4	1.732	0.157	11
				520		160		86.8			
					610	188		88.3			
350						105		81.8			
	370					112	323	82.5			
			410			125		84.4	1.387	0.192	12
				470		143		85.6			
					550	169		87.3			
330						102		81.2			
	350					109	316	82.0			
			390			122		84.0	1.852	0.203	13
				450		140		85.2			
					520	164		86.9			
290						90		79.8			
	310					96	283	80.6			
			350			108		82.7	2.687	0.246	14
				400		123		84.1			
					470	146		86.0			

GH280 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH280 S	860	1362	1258
GH280 M	910	1412	1308
GH280 L	960	1462	1358
GH280 P	1020	1522	1418

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

Electrical blower (IC06)	Weight	Blower motor power	
	105 kg	5.5 kW (50/60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	370 kg	5.5 / 7.5 kW (50/60 Hz)	

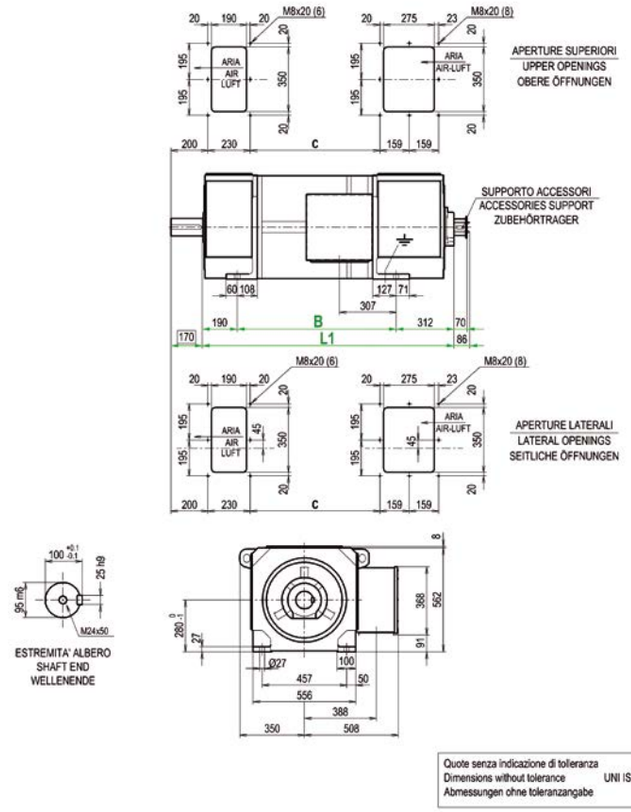
Nidec
All for dreams

DC MOTORS

GH280 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 3700 Field time costant (s): 1.12 Motor mass (kg): 1605 (IC06) Moment of inertia (kg m²): 5.6			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
	260					83		77.6			
		280				89	270	78.6	2.638	0.290	15
			310			100		80.8			
				360		115		82.4			
	240					75		76.8			
		255				80	245	77.8			
			290			90		80.0	3.904	0.333	16
				330		104		81.8			
					390	124		84.3			

GH280 IM1001 - IP44 - IC37



Size	B	L1	C
GH280 S	860	1362	701
GH280 M	910	1412	751
GH280 L	960	1462	801
GH280 P	1020	1522	861

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

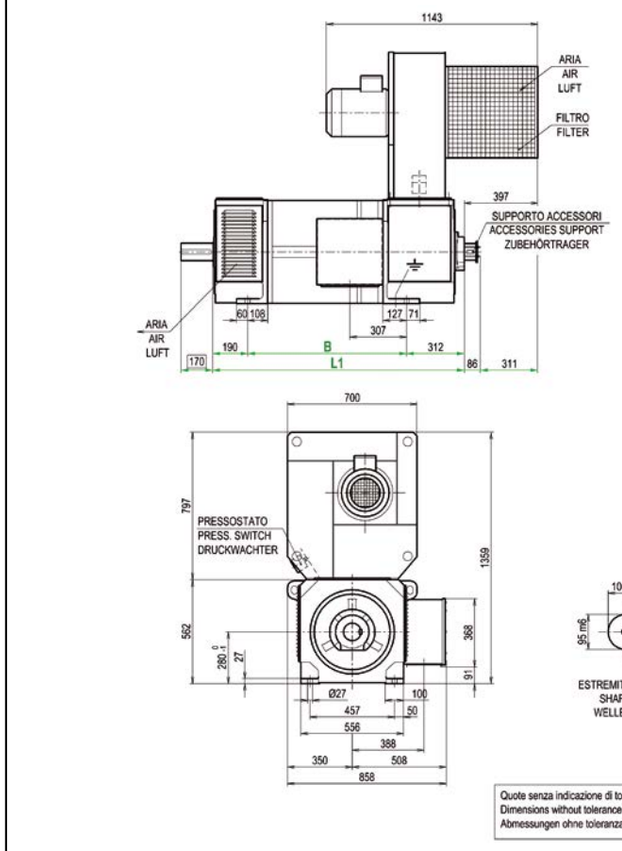
Electrical blower (IC06)	Weight	Blower motor power	
	105 kg	5.5 kW (50/60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	370 kg	5.5 / 7.5 kW (50/60 Hz)	

GH280 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 4000 Field time costant (s): 1.17 Motor mass (kg): 1705 (IC06) Moment of inertia (kg m²): 6.1			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
590						208	1080	87.6			
	1150					405	1100	92.1			
		1210				426	1100	92.3	0.174	0.019	1
			1350			470	1100	92.9			
				1550		512	1060	93.4			
540						191	990	87.6			
	1040					361	980	92.3			
		1100				380	980	92.5	0.258	0.022	2
			1210			420	980	93.0			
				1400		466	960	93.2			
					1630	540	960	93.8			
490						167	885	86.0			
	950					320	875	91.5			
		1000				337	875	91.7	0.230	0.027	3
			1100			372	875	92.4			
				1250		424	875	93.0			
					1480	482	860	93.5			
430						145		84.5			
	840					284		90.6			
		890				300	785	90.8	0.315	0.035	4
			980			331		91.7			
				1110		377		92.2			
					1290	438		92.9			
390						131		83.5			
	760					257		90.0			
		800				271	715	90.3	0.463	0.041	5
			880			300		91.0			
				1010		341		91.8			
					1170	396		92.6			
350						117		81.9			
	700					232		89.1			
		740				245	650	89.5	0.375	0.050	6
			810			270		90.5			
				920		308		91.1			
					1070	360		92.2			
300						100		79.8			
	600					200		88.1			
		635				211	570	88.5	0.707	0.065	7
			700			235		89.5			
				800		267		90.3			
					940	311		91.3			

GH280 IM1001 - IP23 - IC06



Size	B	L1
GH280 S	860	1362
GH280 M	910	1412
GH280 L	960	1462
GH280 P	1020	1522

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50/60 Hz)

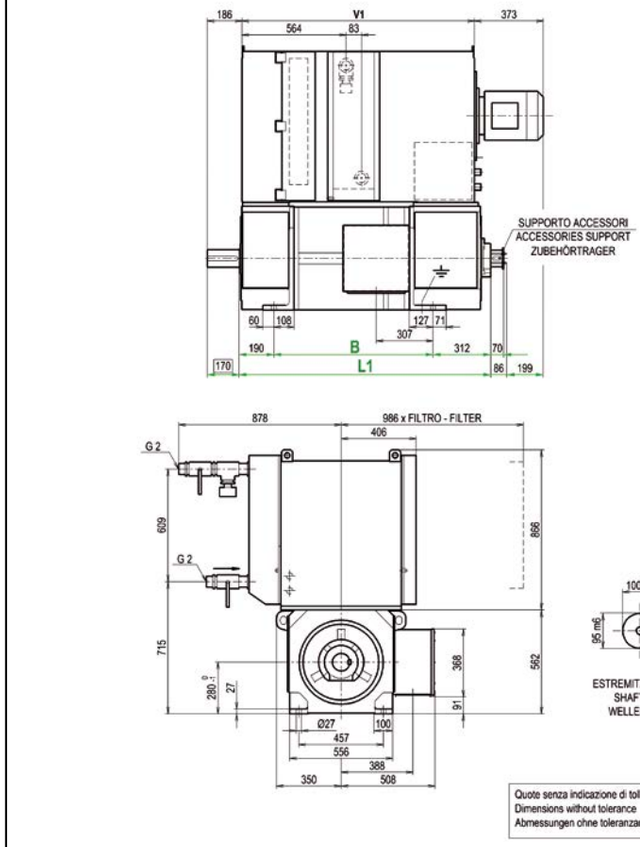
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	370 kg	5.5 / 7.5 kW (50/60 Hz)

Nidec
All for dreams

GH280 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 4000 Field time costant (s): 1.17 Motor mass (kg): 1705 (IC06) Moment of inertia (kg m²): 6.1			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
260						92		77.8			
	530					187		87.0			
		560				197	537	87.5	0.729	0.077	8
			610			219		88.6			
				700		250		89.5			
240						83		77.0			
	480					170		86.7			
		510				180	490	87.2	1.080	0.088	9
			560			199		88.3			
				650		228		89.4			
					750	266		90.5			
210						72		75.0			
	440					149		85.6			
		470				157	435	86.1	0.916	0.109	10
			520			175		87.4			
				590		200		88.5			
					690	234		89.8			
340						117		82.5			
	360					124	355	83.2			
			400			138		84.8	1.917	0.167	11
				460		160		86.3			
					550	186		87.8			
310						104		80.8			
	330					110	323	81.6			
			370			124		83.4	1.5333	0.204	12
				420		142		84.9			
					500	168		86.7			
300						101		80.2			
	320					108	316	81.0			
			350			120		83.0	2.048	0.216	13
				400		138		84.4			
					470	163		86.3			
260						89		78.8			
	280					95	283	79.7			
			320			106		81.7	2.975	0.261	14
				360		122		83.3			
					430	144		85.3			

GH280 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH280 S	860	1362	1258
GH280 M	910	1412	1308
GH280 L	960	1462	1358
GH280 P	1020	1522	1418

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

Electrical blower (IC06)	Weight	Blower motor power	
	105 kg	5.5 kW (50/60 Hz)	

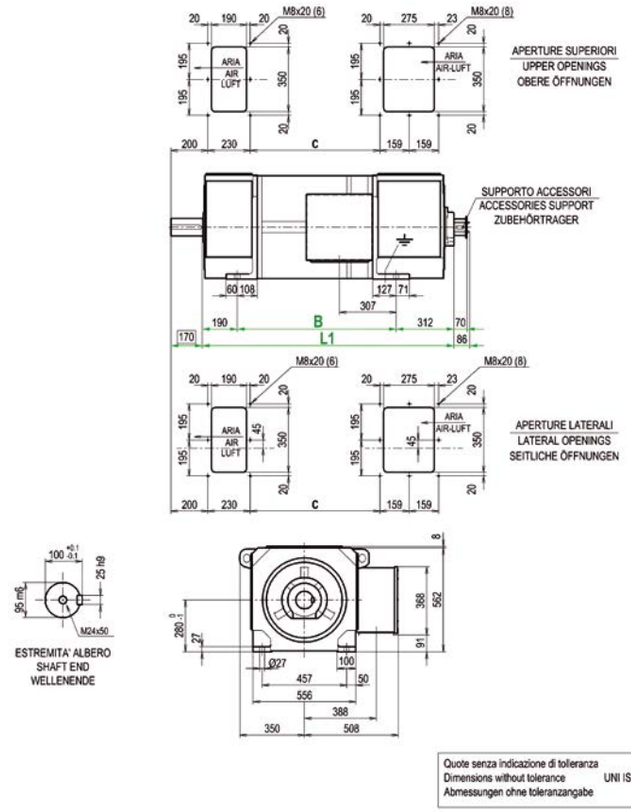
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	370 kg	5.5 / 7.5 kW (50/60 Hz)	

Nidec
All for dreams

GH280 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 4000 Field time costant (s): 1.17 Motor mass (kg): 1705 (IC06) Moment of inertia (kg m²): 6.1			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
	240					83		76.4			
		260				88	270	77.4	2.918	0.308	15
			280			99		79.7			
				320		114		81.5			
		230				80	245	77.7			
			260			89		79.0	4.322	0.353	16
				295		104		80.9			
					350	122		83.2			

GH280 IM1001 - IP44 - IC37



Size	B	L1	C
GH280 S	860	1362	701
GH280 M	910	1412	751
GH280 L	960	1462	801
GH280 P	1020	1522	861

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

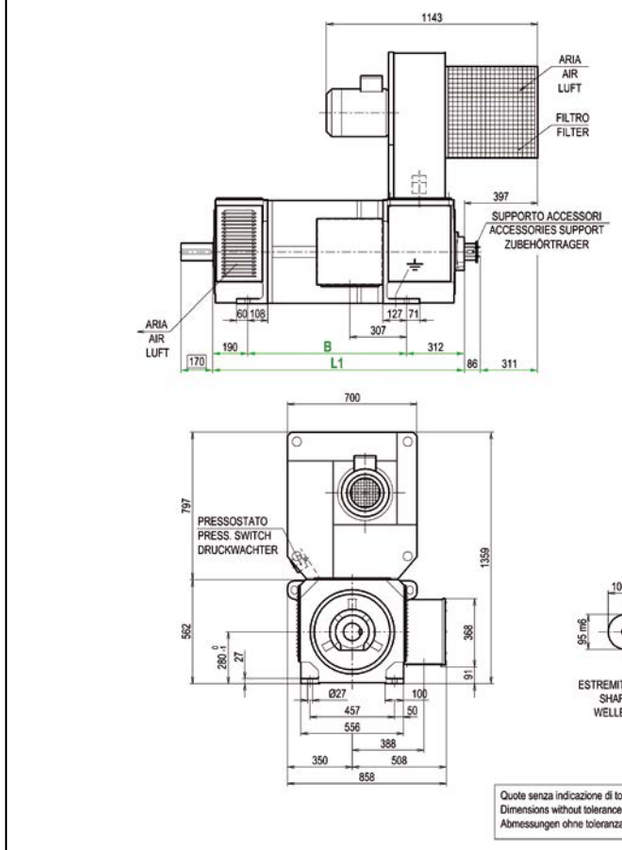
Electrical blower (IC06)	Weight	Blower motor power	
	105 kg	5.5 kW (50/60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	370 kg	5.5 / 7.5 kW (50/60 Hz)	

GH280 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 4400 Field time costant (s): 1.25 Motor mass (kg): 1825 (IC06) Moment of inertia (kg m²): 6.8			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
530						205	1080	86.4			
	1020					405	1100	91.9			
		1080				425	1100	92.1	0.194	0.020	1
			1200			468	1100	92.6			
				1390		511	1060	93.0			
480						188	990	86.4			
	930					360	980	91.8			
		980				378	980	92.0	0.287	0.023	2
			1080			417	980	92.5			
				1250		465	960	93.2			
					1480	540	960	93.8			
440						166	885	85.3			
	850					320	875	91.2			
		900				336	875	91.4	0.256	0.029	3
			990			370	875	92.0			
				1120		421	875	92.6			
					1330	481	860	93.4			
380						144		83.6			
	750					283		90.2			
		790				298	785	90.5	0.351	0.037	4
			870			330		91.4			
				990		375		92.0			
					1150	437		92.8			
340						130		82.6			
	680					256		89.6			
		720				270	715	90.0	0.515	0.044	5
			790			298		90.8			
				900		340		91.6			
					1050	395		92.4			
310						115		80.9			
	620					230		88.7			
		660				243	650	89.1	0.417	0.054	6
			730			270		90.1			
				820		306		90.9			
					960	357		91.9			
260						98		78.6			
	530					199		87.5			
		560				210	570	88.0	0.787	0.070	7
			620			233		89.0			
				710		265		90.0			
					830	310		91.1			

GH280 IM1001 - IP23 - IC06



Size	B	L1
GH280 S	860	1362
GH280 M	910	1412
GH280 L	960	1462
GH280 P	1020	1522

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50/60 Hz)

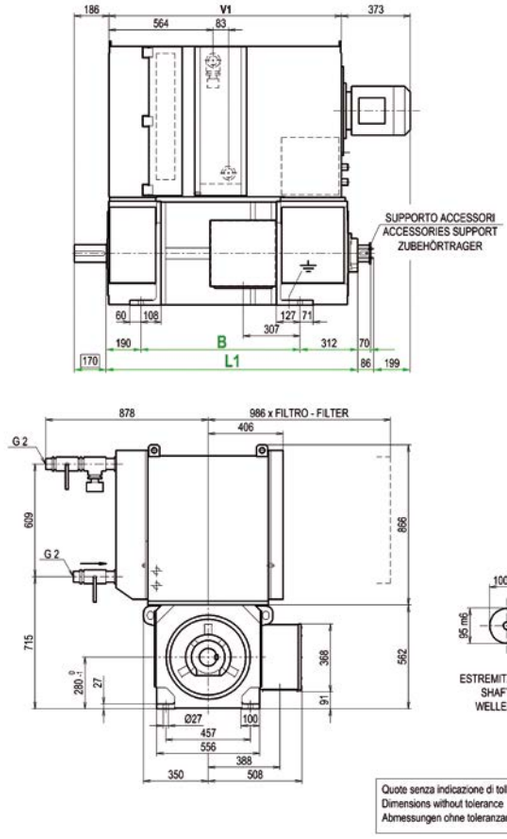
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	370 kg	5.5 / 7.5 kW (50/60 Hz)

Nidec
All for dreams

GH280 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 4400 Field time costant (s): 1.25 Motor mass (kg): 1825 (IC06) Moment of inertia (kg m²): 6.8			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
230						90		76.5			
	470					185		86.3			
		500				196	537	86.8	0.814	0.082	8
			550			217		88.0			
				630		249		89.1			
210						81		75.7			
	420					167		86.0			
		450				177	487	86.5	1.206	0.094	9
			500			197		87.8			
				570		225		88.8			
					670	263		90.1			
	390					147		84.7			
		410				155	435	85.3			
			450			174		86.8	1.021	0.116	10
				520		198		87.9			
					610	232		89.3			
	300					115		81.5			
		320				122	355	82.2			
			360			137		84.1	2.140	0.178	11
				410		157		85.4			
					480	185		87.1			
270						103		79.7			
	290					110	323	80.6			
		330				122		82.5	1.708	0.217	12
			370			141		84.0			
				440		166		85.9			
260						99		79.1			
	280					106	316	80.0			
		310				119		82.0	2.285	0.230	13
			350			137		83.5			
				420		162		85.5			
230						87		77.5			
	250					93	283	78.4			
		280				105		80.6	3.321	0.279	14
			320			121		82.3			
				380		143		84.5			

GH280 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH280 S	860	1362	1258
GH280 M	910	1412	1308
GH280 L	960	1462	1358
GH280 P	1020	1522	1418

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	370 kg	5.5 / 7.5 kW (50/60 Hz)

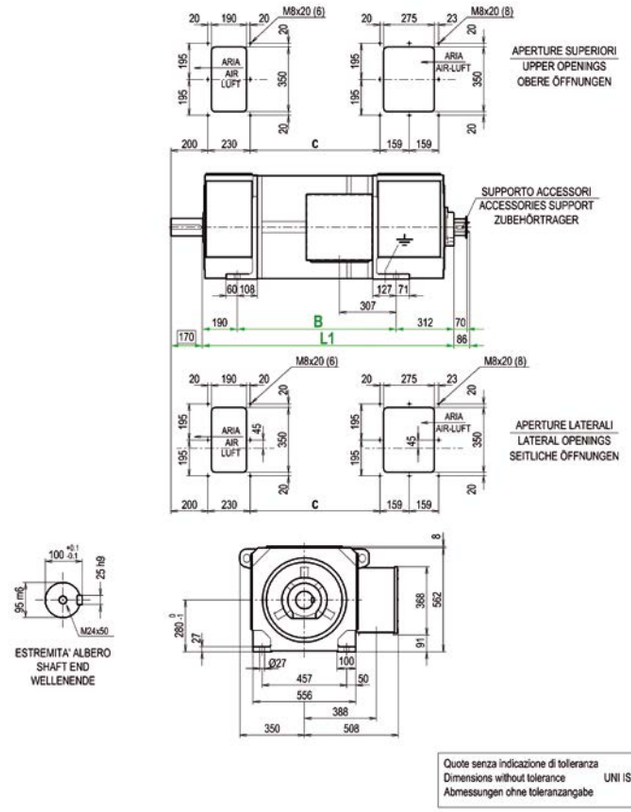
Nidec
All for dreams

DC MOTORS

GH280 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 4400 Field time costant (s): 1.25 Motor mass (kg): 1825 (IC06) Moment of inertia (kg m²): 6.8			Armature circuit		Winding code
220 V	400 V	420 V	460 V	520 V	600 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
	200					81		74.9			
		220				86	270	76.0	3.254	0.329	15
			250			97		78.5			
				280		113		80.3			
		200				78	244	75.7			
			220			88		78.0	4.824	0.377	16
				260		101		79.7			
					310	120		82.2			

GH280 IM1001 - IP44 - IC37



Size	B	L1	C
GH280 S	860	1362	701
GH280 M	910	1412	751
GH280 L	960	1462	801
GH280 P	1020	1522	861

TECHNICAL DATA

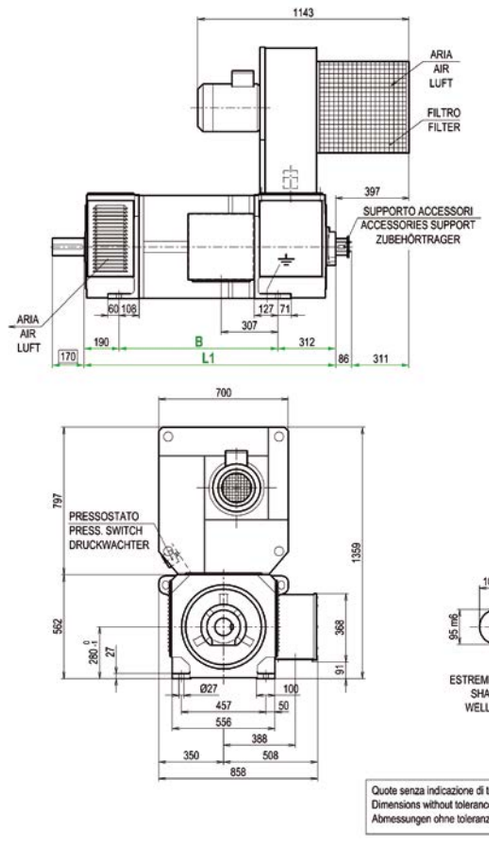
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

Electrical blower (IC06)	Weight	Blower motor power	
	105 kg	5.5 kW (50/60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	370 kg	5.5 / 7.5 kW (50/60 Hz)	

GH280 IM1001 - IP23 - IC06



Size	B	L1
GH280 S	860	1362
GH280 M	910	1412
GH280 L	960	1462
GH280 P	1020	1522

TECHNICAL DATA

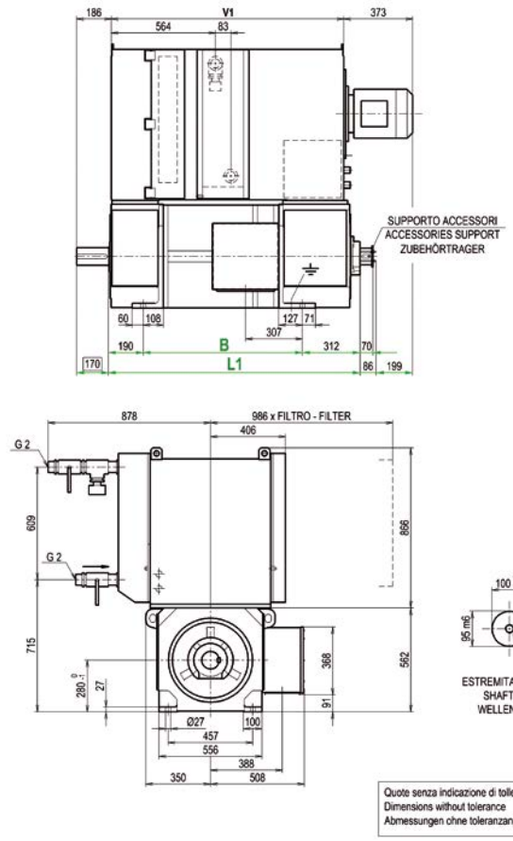
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

Electrical blower (IC06)	Weight	Blower motor power	
	105 kg	5.5 kW (50/60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	370 kg	5.5 / 7.5 kW (50/60 Hz)	

GH280 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH280 S	860	1362	1258
GH280 M	910	1412	1308
GH280 L	960	1462	1358
GH280 P	1020	1522	1418

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

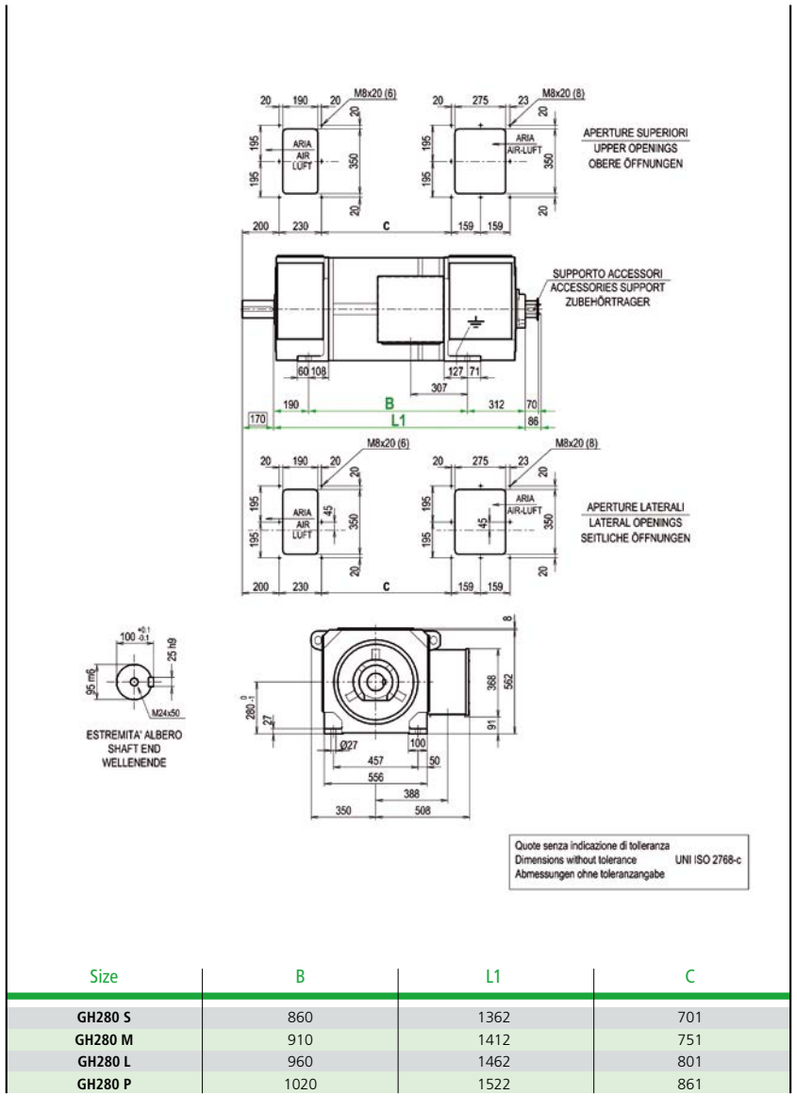
Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	370 kg	5.5 / 7.5 kW (50/60 Hz)

Nidec
All for dreams

GH280 IM1001 - IP44 - IC37



Size	B	L1	C
GH280 S	860	1362	701
GH280 M	910	1412	751
GH280 L	960	1462	801
GH280 P	1020	1522	861

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH280 SK	1400	4.9	3400	1.07	2600	85	2050
GH280 MK	1500	5.6	3700	1.12	2600	85	2050
GH280 LK	1600	6.1	4000	1.17	2600	85	2050
GH280 PK	1720	6.8	4400	1.25	2600	85	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
GH280 SK-MK-LK-PK	6221 C3	NU221ECP	6219 C3

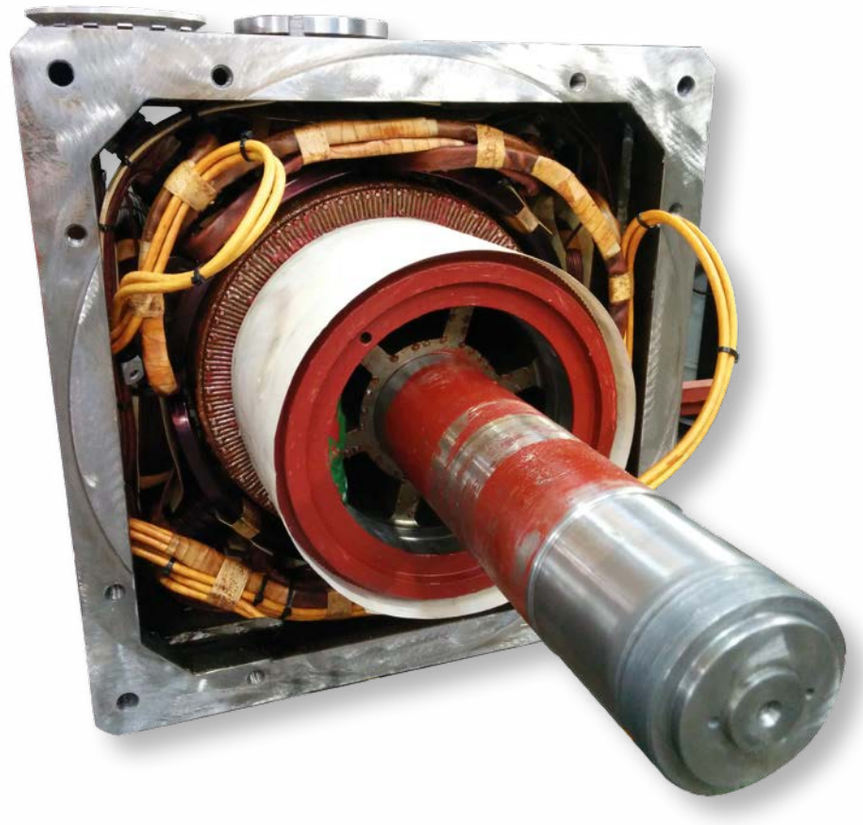
Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50/60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	370 kg	5.5 / 7.5 kW (50/60 Hz)

Nidec
All for dreams

DC MOTORS

GH315



Performance Tables are displayed on multiple pages, alongside the data tables are repeated alternately overall dimensions (IC06- IC86W-IC37)

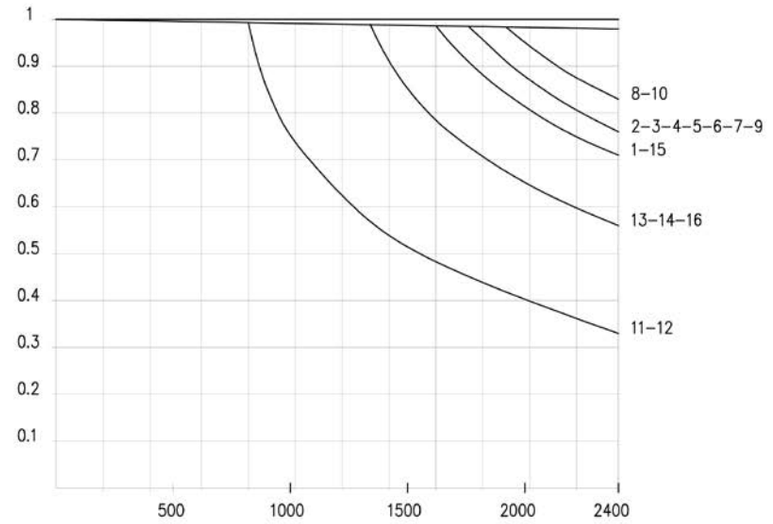
Nidec SISTEMI INDUSTRIALI

Nidec
All for dreams

GH 315 K

RIDUZIONE DELLA POTENZA IN DISECCITAZIONE
DERATING FOR FIELD WEAKENING OPERATION
LEISTUNGSREDUZIERUNG BEI FELDSWÄCHUNG

GH 315 K (compensata - compensated - kompensiert)
[180% sovraccarico - overload - überlast]



P = K x P tabella potenza disponibile	Allowable power output P = K x P table		Werfügbare Leistung P = K x P table
per/for/für	GH 315 MK	K = K x 1.40	
	GH 315 LK	K = K x 1.25	
	GH 315 PK	K = K x 1.12	
	GH 315 XK	K = K x 1.0	
Per K ≥ 1 niente declassamento	For K ≥ 1 no derating		Für K ≥□1 keine Leistungreduzierung

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	450 kg	7.5 kW (50/60 Hz)	

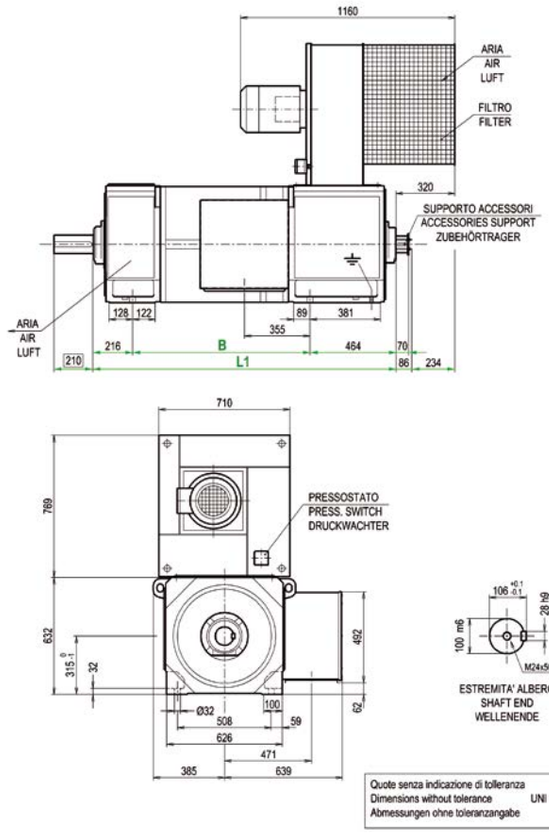
Nidec
All for dreams

DC MOTORS

GH315 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 4200 Field time costant (s): 0.85 Motor mass (kg): 2205 (IC06) Moment of inertia (kg m²): 9.2			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
1380						483		93.3			
	1450					509	1295	93.6	0.077	0.012	1
		1600				559		93.8			
1180						436		93.3			
	1240					460		93.5			
		1360				505	1171	93.8	0.126	0.014	2
			1550			573		94.1			
1070						392		92.6			
	1130					413		92.8			
		1240				455	1060	93.3	0.159	0.018	3
			1410			517		93.8			
				1630		599		94.2			
970						341		91.7			
	1020					360		92.1			
		1130				396	931	92.5			
			1290			450		93.1	0.145	0.024	4
				1490		523		93.7			
					1750	613		94.2			
900						320		91.4			
	950					337		91.6			
		1050				372	876	92.3			
			1190			423		92.9	0.187	0.027	5
				1380		492		93.5			
					1620	577		94.1			
830						289		91.1			
	870					305		91.7			
		960				336	793	92.1			
			1100			382		92.7	0.234	0.031	6
				1280		444		93.3			
					1510	521		94.0			
780						265		90.9			
	820					280		91.2			
		900				309	731	91.9			
			1030			351		92.5	0.300	0.035	7
				1200		409		93.2			
					1410	480		93.8			
660						235		89.4			
	700					248		89.9			
		770				274	657	90.7			
			880			312		91.4	0.312	0.049	8
				1020		364		92.2			
					1200	428		93.0			

GH315 IM1001 - IP23 - IC06



Size	B	L1
GH315 M	960	1640
GH315 L	1010	1690
GH315 P	1070	1750
GH315 X	1140	1820

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

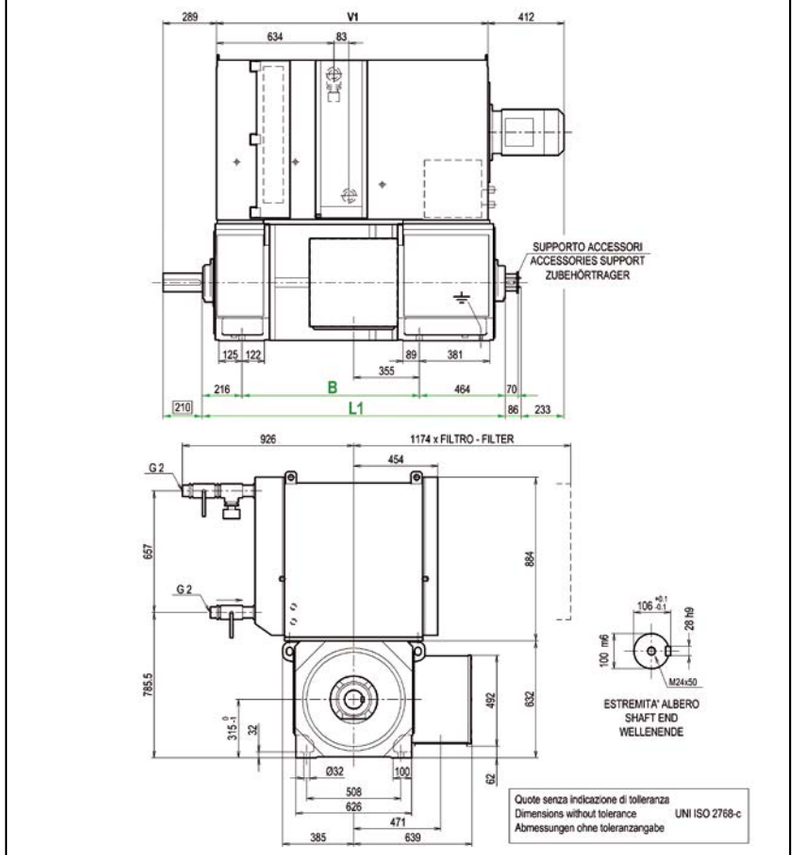
Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	450 kg	7.5 kW (50/60 Hz)	

GH315 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 4200 Field time costant (s): 0.85 Motor mass (kg): 2205 (IC06) Moment of inertia (kg m²): 9.2			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
610						210		88.5			
	640					222		89.0			
		700				245	594	89.7	0.382	0.060	9
			810			280		90.7			
				940		327		91.6			
					1110	385		92.5			
560						200		88.2			
	590					211		88.8			
		650				234	568	89.6	0.443	0.065	10
			750			267		90.5			
				870		311		91.5			
					1030	367		92.4			
500						186		88.0			
	530					197		88.5			
		580				218	530	89.4	0.645	0.071	11
			660			249		90.3			
				770		290		91.4			
460						166		87.5			
	480					176		88.2			
		530				194	475	88.8	0.908	0.084	12
			610			222		90.0			
				710		260		91.1			
					840	306		92.1			
410						148		85.5			
	430					157		86.1			
		480				174	434	87.2	0.728	0.109	13
			560			199		88.5			
				650		233		89.8			
					770	276		91.0			
350						116		82.9			
	370					123		83.7			
		410				137	350	85.1	0.854	0.165	14
			470			157		86.5			
				560		185		88.0			
					660	219		89.5			

GH315 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH315 M	960	1640	1468
GH315 L	1010	1690	1518
GH315 P	1070	1750	1578
GH315 X	1140	1820	1648

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

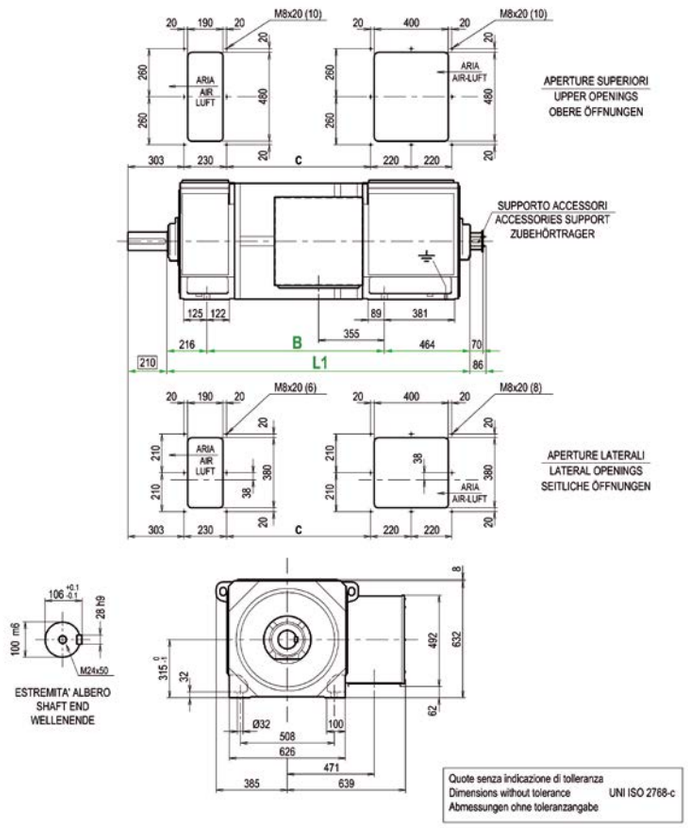
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

Nidec
All for dreams

GH315 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 4200 Field time costant (s): 0.85 Motor mass (kg): 2205 (IC06) Moment of inertia (kg m²): 9.2			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
300						105		81.3	1.231	0.196	15
	320					112		82.1			
		350				125	325	83.6			
			400			144		85.3			
				470		169		87.0			
					560	201		88.6			
270						93		81.1	1.605	0.224	16
	280					99		81.8			
		330				111	288	83.8			
			370			127		85.1			
				440		150		86.9			
					520	178		88.5			

GH315 IM1001 - IP44 - IC37



Size	B	L1	C
GH315 M	960	1640	779
GH315 L	1010	1690	829
GH315 P	1070	1750	889
GH315 X	1140	1820	959

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

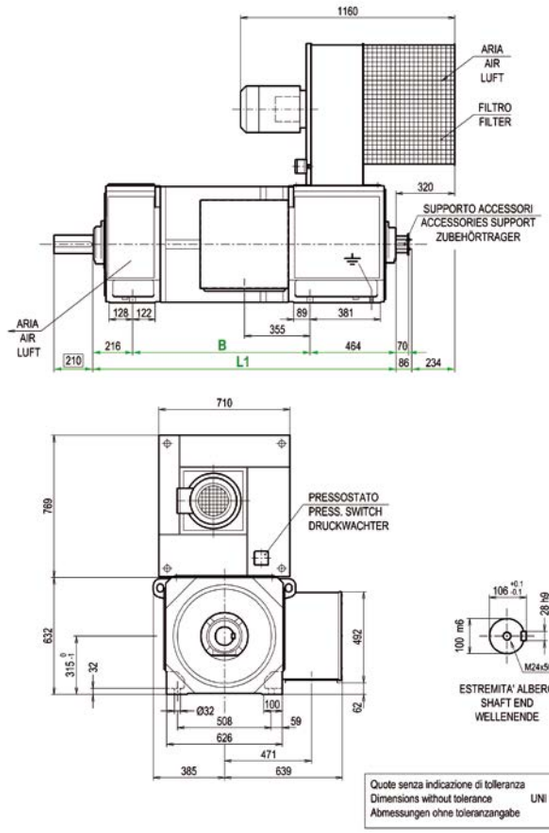
Nidec
All for dreams

DC MOTORS

GH315 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 4500 Field time costant (s): 0.92 Motor mass (kg): 2305 (IC06) Moment of inertia (kg m²): 10.4			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
1230						482		93.3			
	1300					508	1295	93.4	0.084	0.013	1
		1420				558		93.7			
1050						435		92.9			
	1100					458		93.1			
		1210				504	1171	93.6	0.138	0.015	2
			1380			572		94.0			
950						391		92.4			
	1000					413		92.8			
		1110				455	1060	93.3	0.176	0.019	3
			1260			516		93.6			
				1460		598		94.1			
870						340		91.4			
	920					358		91.6			
		1000				395	931	92.2	0.159	0.026	4
			1150			449		92.9			
				1330		522		93.5			
					1570	613		94.1			
800						319		91.1			
	840					336		91.3			
		930				370	876	91.8	0.205	0.029	5
			1060			422		92.7			
				1230		491		93.4			
					1450	576		94.0			
740						288		90.8			
	780					303		91.0			
		860				334	793	91.6	0.257	0.033	6
			980			381		92.4			
				1140		443		93.1			
					1350	520		93.8			
690						264		90.5			
	730					279		90.9			
		810				308	731	91.6	0.331	0.038	7
			920			350		92.2			
				1070		408		93.0			
					1260	479		93.6			
590						233		88.9			
	620					247		89.5			
		680				273	657	90.3	0.343	0.052	8
			780			311		91.0			
				910		362		92.0			
					1070	427		92.8			

GH315 IM1001 - IP23 - IC06



Size	B	L1
GH315 M	960	1640
GH315 L	1010	1690
GH315 P	1070	1750
GH315 X	1140	1820

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	450 kg	7.5 kW (50/60 Hz)	

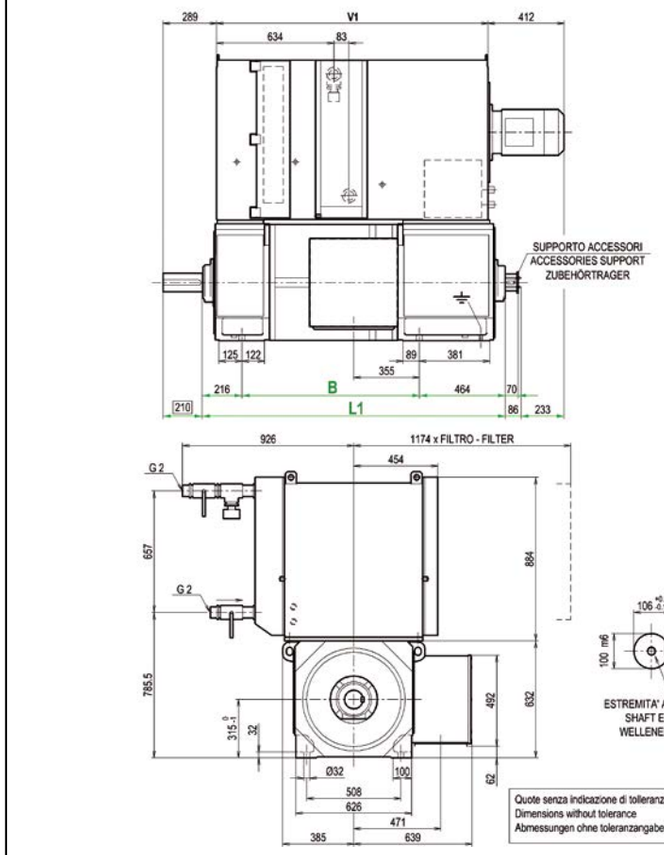
Nidec
All for dreams

DC MOTORS

GH315 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 4500 Field time costant (s): 0.92 Motor mass (kg): 2305 (IC06) Moment of inertia (kg m²): 10.4			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
540						209		87.9	0.420	0.064	9
	570					220		88.2			
		630				244	594	89.3			
			720			279		90.3			
				840		325		91.3			
					990	385		92.3			
500						199		87.7	0.488	0.069	10
	530					210		88.0			
		590				232	568	88.8			
			670			266		90.1			
				780		310		91.1			
					920	366		92.1			
440						185		87.4	0.712	0.075	11
	460					196		88.1			
		510				218	530	89.4			
			590			247		89.9			
				690		289		91.0			
400						165		86.9	1.004	0.089	12
	420					174		87.2			
		470				193	475	88.3			
			540			221		89.5			
				630		258		90.7			
					750	305		91.7			
370						147		84.5	0.803	0.115	13
	390					155		85.0			
		430				173	434	86.7			
			490			198		88.0			
				580		232		89.3			
					680	275		90.6			
310						115		82.0	0.941	0.174	14
	330					121		82.3			
		370				134	350	83.2			
			420			157		85.8			
				490		183		87.5			
					590	218		89.0			

GH315 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH315 M	960	1640	1468
GH315 L	1010	1690	1518
GH315 P	1070	1750	1578
GH315 X	1140	1820	1648

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

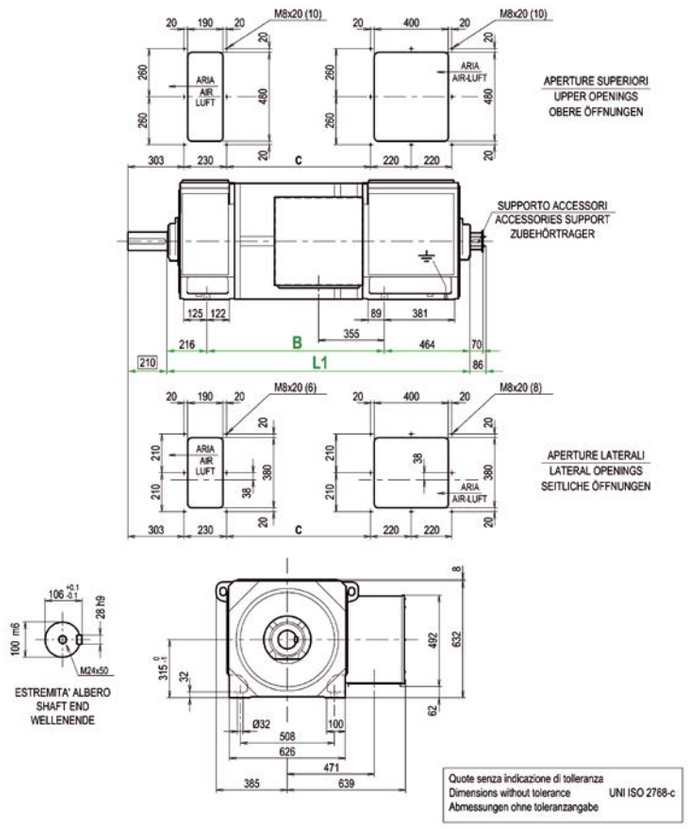
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	450 kg	7.5 kW (50/60 Hz)	

Nidec
All for dreams

GH315 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 4200 Field time costant (s): 0.85 Motor mass (kg): 2205 (IC06) Moment of inertia (kg m²): 9.2			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
260						104		80.3	1.357	0.208	15
	270					111		81.3			
		300				123	325	82.3			
			360			143		84.5			
				420		168		86.3			
					500	200		88.1			
240						92		80.1	1.771	0.238	16
	250					98		81.0			
		280				109	288	82.3			
			330			126		84.4			
				390		149		86.2			
					460	177		87.9			

GH315 IM1001 - IP44 - IC37



Size	B	L1	C
GH315 M	960	1640	779
GH315 L	1010	1690	829
GH315 P	1070	1750	889
GH315 X	1140	1820	959

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

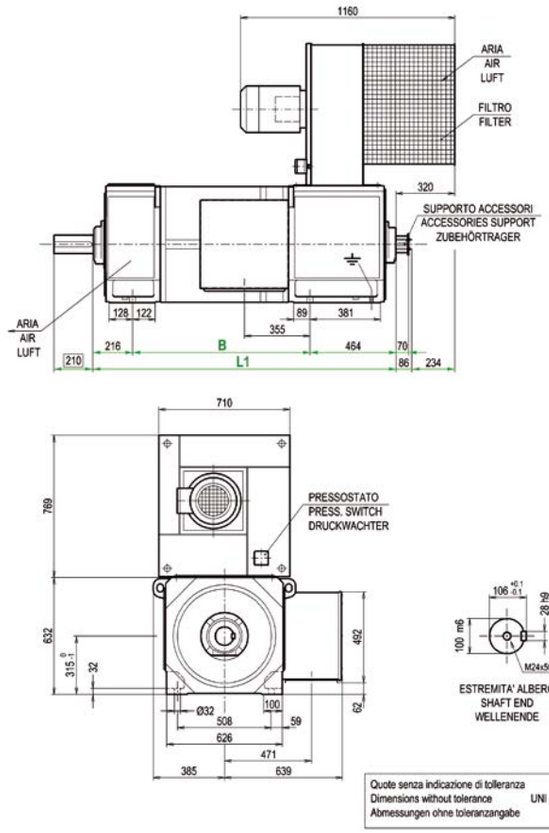
Nidec
All for dreams

DC MOTORS

GH315 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 4900 Field time costant (s): 1.01 Motor mass (kg): 2445 (IC06) Moment of inertia (kg m²): 11.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
1120						481	1295	92.9			
	1180					506	1295	93.2	0.094	0.013	1
		1330				546	1270	93.5			
950						433	1171	92.6			
	1000					457	1171	92.9	0.154	0.016	2
		1130				503	1171	93.4			
			1280			561	1150	93.8			
850						390	1060	92.1			
	900					411	1060	92.3			
		990				453	1060	92.9	0.195	0.020	3
			1150			510	1050	93.4			
				1360		585	1040	94.0			
770						338	931	91.0			
	810					357	931	91.3			
		890				394	931	92.0	0.176	0.027	4
			1020			448	931	92.6			
				1230		515	920	93.3			
					1450	598	910	93.9			
710						318	876	90.7			
	750					335	876	91.1			
		830				370	876	91.8	0.228	0.031	5
			940			421	876	92.4			
				1100		480	860	93.1			
					1300	551	840	93.8			
660						286	793	90.4			
	700					302	793	90.7			
		770				333	793	91.3	0.286	0.033	6
			870			379	793	92.1			
				1020		442	793	92.9			
					1200	513	785	93.6			
620						263		90.1			
	650					278		90.5			
		710				306	731	91.0	0.368	0.040	7
			820			349		91.9			
				950		406		92.7			
					1120	478		93.4			
520						232		88.3			
	550					245		88.8			
		610				271	657	89.7	0.381	0.055	8
			690			309		90.6			
				810		361		91.6			
					950	425		92.5			

GH315 IM1001 - IP23 - IC06



Size	B	L1
GH315 M	960	1640
GH315 L	1010	1690
GH315 P	1070	1750
GH315 X	1140	1820

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	450 kg	7.5 kW (50/60 Hz)	

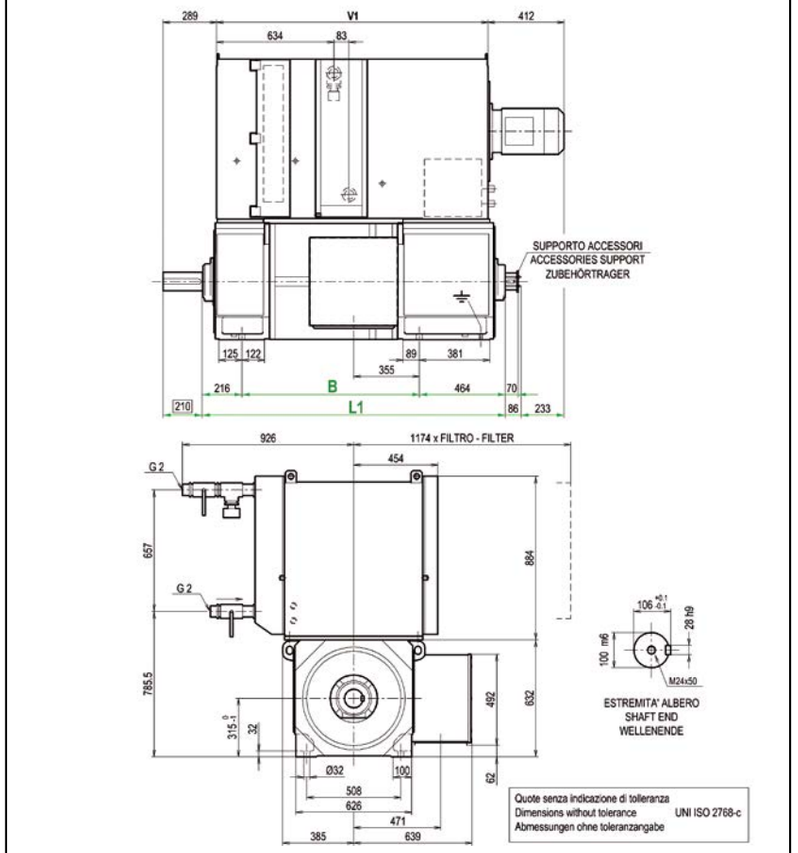
Nidec
All for dreams

DC MOTORS

GH315 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 4900 Field time costant (s): 1.01 Motor mass (kg): 2445 (IC06) Moment of inertia (kg m²): 11.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
480						207		87.3			
	510					220		88.2			
		560				242	594	88.6	0.466	0.068	9
			640			277		89.8			
				750		324		90.9			
					880	382		91.9			
440						197		87.0			
	460					209		87.6			
		510				231	568	88.4	0.541	0.073	10
			590			264		89.6			
				690		309		90.7			
					820	365		91.8			
390						183		86.8			
	410					194		87.3			
		460				215	529	88.4	0.793	0.081	11
			520			246		89.4			
				610		287		90.6			
360						164		86.1			
	380					173		86.7			
		420				192	475	87.9	1.119	0.095	12
			480			220		89.0			
				560		257		90.2			
					660	304		91.3			
320						145		84.0			
	340					154		84.5			
		380				171	434	85.7	0.893	0.123	13
			440			197		87.3			
				510		231		88.8			
					610	273		90.1			
280						114		80.9			
	300					121		82.1			
		330				134	351	83.0	1.046	0.181	14
			370			155		85.0			
				440		182		86.7			
					520	217		88.4			

GH315 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH315 M	960	1640	1468
GH315 L	1010	1690	1518
GH315 P	1070	1750	1578
GH315 X	1140	1820	1648

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

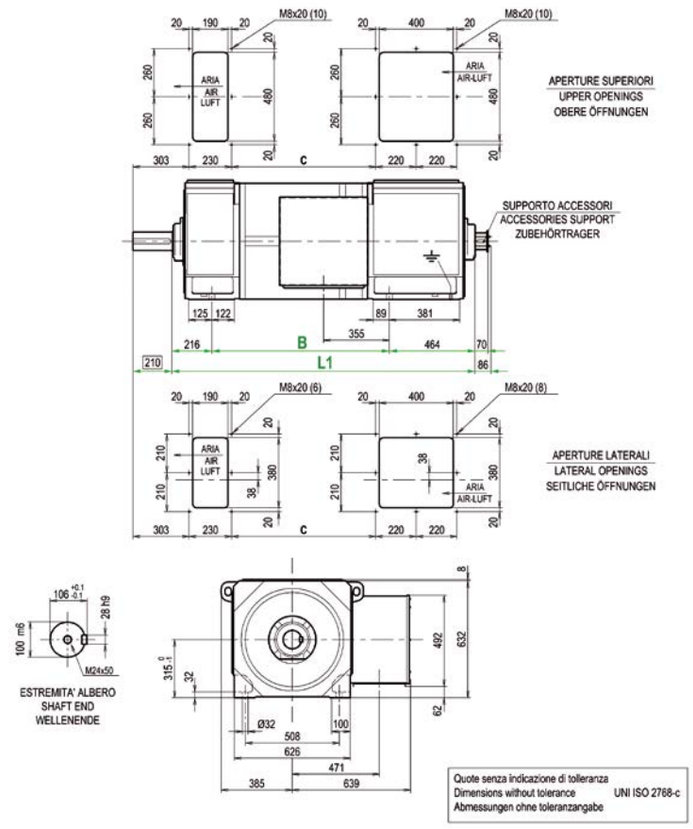
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

Nidec
All for dreams

GH315 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 4900 Field time costant (s): 1.01 Motor mass (kg): 2445 (IC06) Moment of inertia (kg m²): 11.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
230						103		79.1	1.509	0.223	15
	240					110		80.6			
		270				122	325	81.6			
			310			141		83.6			
				370		167		85.6			
					440	199		87.4			
210						92		78.6	1.971	0.254	16
	220					98		79.6			
		250				110	293	81.6			
			290			126		83.2			
				340		150		85.2			
					410	178		87.1			

GH315 IM1001 - IP44 - IC37



Size	B	L1	C
GH315 M	960	1640	779
GH315 L	1010	1690	829
GH315 P	1070	1750	889
GH315 X	1140	1820	959

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

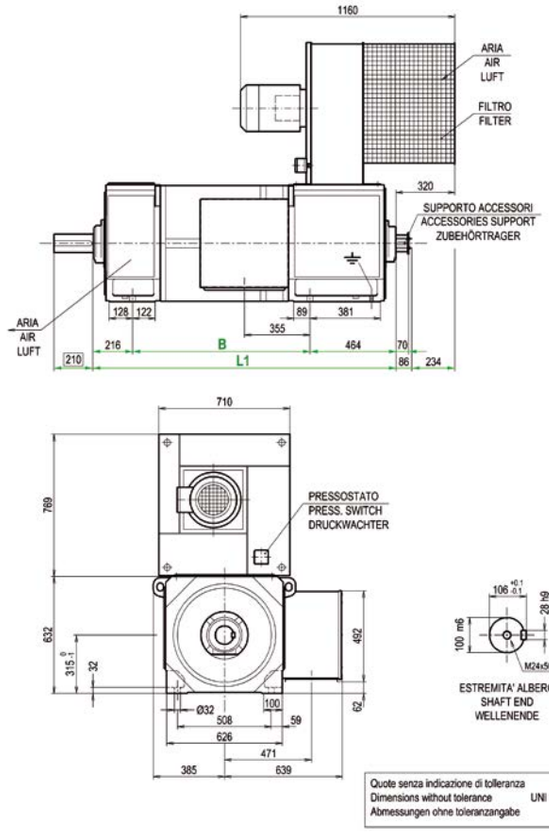
Nidec
All for dreams

DC MOTORS

GH315 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 5300 Field time costant (s): 1.10 Motor mass (kg): 2605 (IC06) Moment of inertia (kg m²): 12.7			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
1000						475		92.7			
	1050					500	1280	93.0	0.104	0.015	1
		1150				550		93.3			
850						430	1160	92.5			
	890					451	1160	92.6	0.171	0.017	2
		980				497	1160	93.1			
			1130			555	1140	93.6			
770						385	1050	91.8			
	800					407	1050	92.2			
		890				449	1050	92.7	0.218	0.021	3
			1020			500	1030	93.2			
				1200		574	1020	93.8			
690						333	920	90.6			
	730					351	920	91.0			
		800				388	920	91.7			
			920			441	920	92.3	0.196	0.029	4
				1070		507	910	93.1			
					1280	590	900	93.7			
640						316	875	90.3			
	670					333	875	90.6			
		750				368	875	91.4	0.254	0.033	5
			850			419	875	92.0			
				1000		474	850	92.8			
					1170	544	830	93.5			
590						285	790	90.0			
	620					300	790	90.4			
		690				331	790	91.0	0.319	0.038	6
			780			377	790	91.7			
				910		439	790	92.6			
					1080	510	780	93.3			
550						262		89.5			
	580					276		90.0			
		640				305	730	90.6	0.411	0.043	7
			730			348		91.5			
				850		405		92.4			
					1000	477		93.2			
470						231		87.8			
	490					244		88.3			
		540				270	657	89.1	0.424	0.060	8
			630			308		90.1			
				730		359		91.2			
					860	424		92.2			

GH315 IM1001 - IP23 - IC06



Size	B	L1
GH315 M	960	1640
GH315 L	1010	1690
GH315 P	1070	1750
GH315 X	1140	1820

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

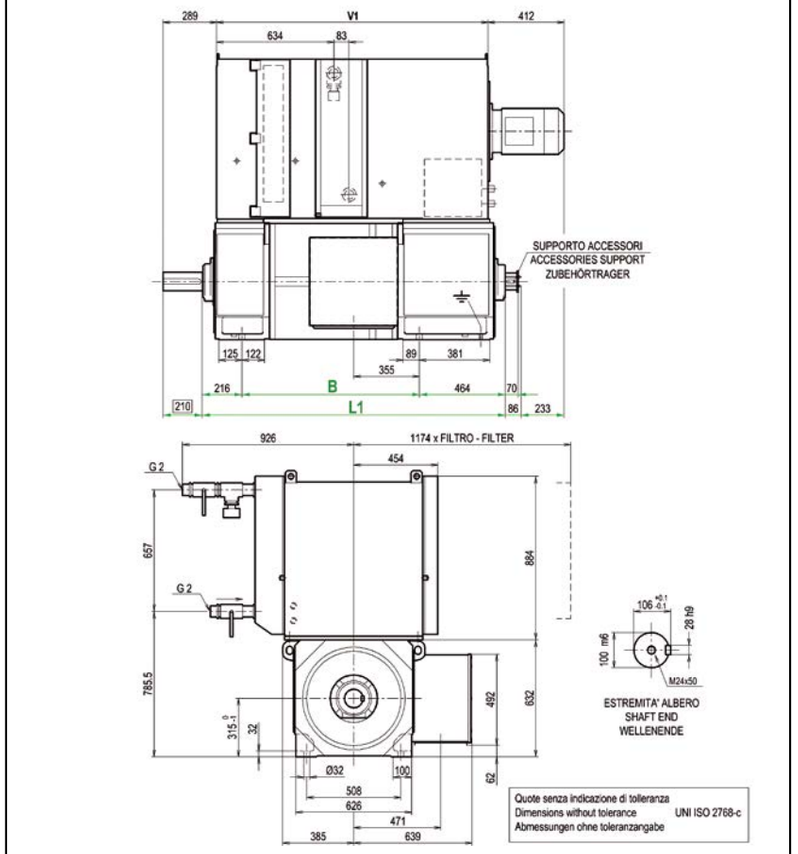
Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

GH315 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 5300 Field time costant (s): 1.10 Motor mass (kg): 2605 (IC06) Moment of inertia (kg m²): 12.7			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
430						206		86.5			
	450					218		87.2			
		500				242	594	88.5	0.519	0.073	9
			570			276		89.2			
				670		322		90.4			
					800	381		91.5			
400						196		86.2			
	420					207		86.8			
		470				230	568	87.8	0.603	0.079	10
			530			262		89.0			
				620		307		90.2			
					740	363		91.3			
355						183		85.9			
	370					192		86.5			
		410				215	530	87.7	0.888	0.087	11
			475			244		88.8			
				550		286		90.1			
320						162		85.3			
	330					172		86.0			
		375				190	475	87.0	1.254	0.102	12
			430			218		88.3			
				500		255		89.6			
					590	302		90.9			
290						145		83.0			
	310					152		83.7			
		350				170	434	85.1	1.001	0.132	13
			400			195		86.5			
				460		230		88.1			
					550	272		89.6			
245						112		79.8			
	260					120		81.6			
		290				133	350	82.3	1.168	0.200	14
			330			155		84.0			
				400		180		86.0			
					470	215		87.7			

GH315 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH315 M	960	1640	1468
GH315 L	1010	1690	1518
GH315 P	1070	1750	1578
GH315 X	1140	1820	1648

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

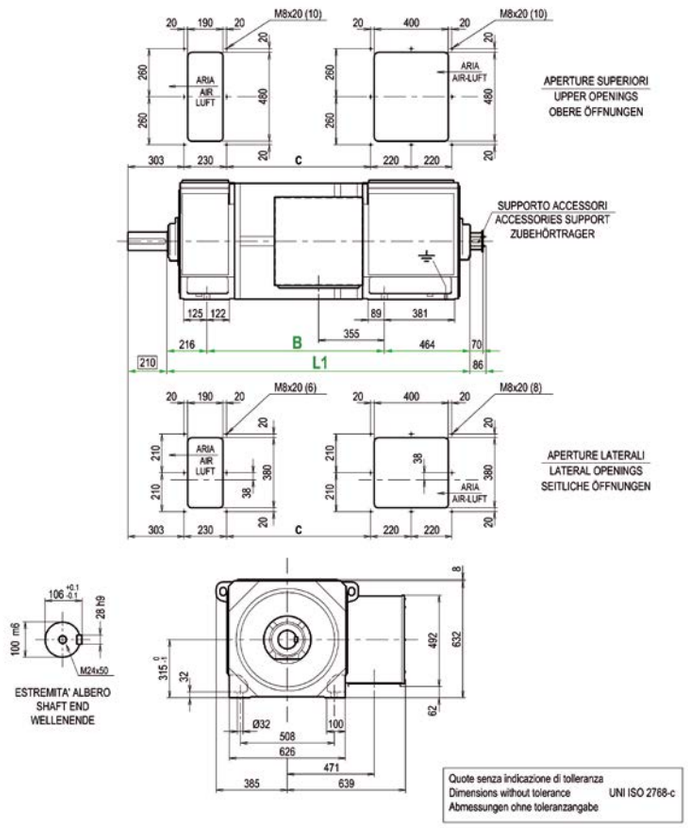
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

Nidec
All for dreams

GH315 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 5300 Field time costant (s): 1.10 Motor mass (kg): 2605 (IC06) Moment of inertia (kg m²): 12.7			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
205						102		77.8	1.1687	0.240	15
	215					108		79.0			
		250				120	325	80.5			
			280			140		82.5			
				330		166		84.6			
					400	198		86.6			
		220				108	293	80.0	2.204	0.273	16
			260			125		82.1			
				310		149		84.3			
					370	177		86.3			

GH315 IM1001 - IP44 - IC37



Size	B	L1	C
GH315 M	960	1640	779
GH315 L	1010	1690	829
GH315 P	1070	1750	889
GH315 X	1140	1820	959

TECHNICAL DATA

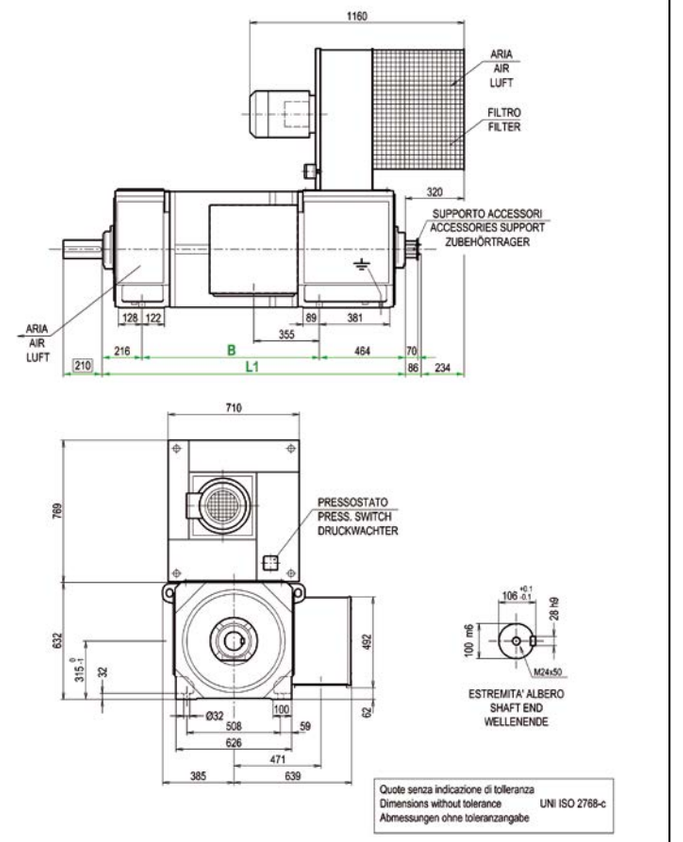
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

GH315 IM1001 - IP23 - IC06



Size	B	L1
GH315 M	960	1640
GH315 L	1010	1690
GH315 P	1070	1750
GH315 X	1140	1820

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

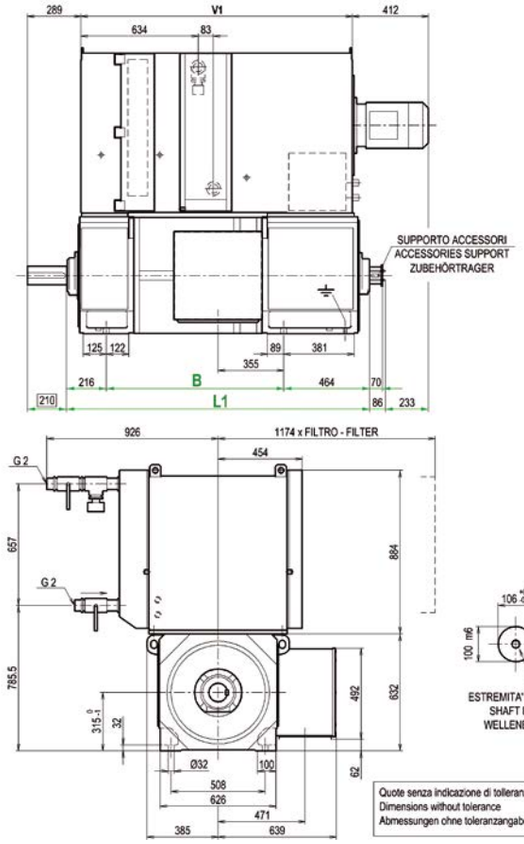
Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

Nidec
All for dreams

GH315 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH315 M	960	1640	1468
GH315 L	1010	1690	1518
GH315 P	1070	1750	1578
GH315 X	1140	1820	1648

TECHNICAL DATA

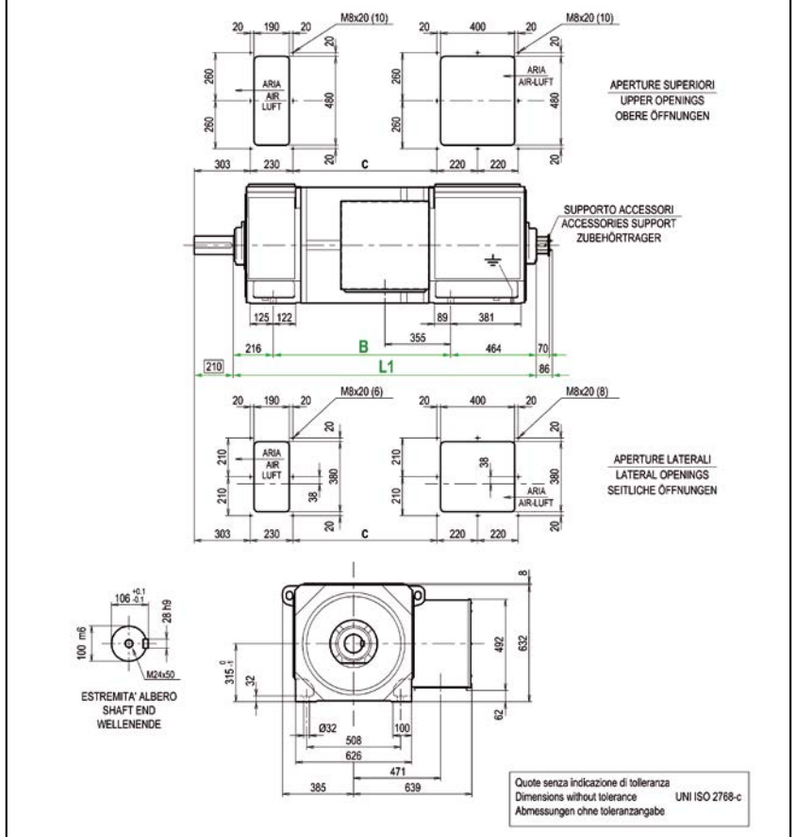
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	450 kg	7.5 kW (50/60 Hz)	

GH315 IM1001 - IP44 - IC37



Size	B	L1	C
GH315 M	960	1640	779
GH315 L	1010	1690	829
GH315 P	1070	1750	889
GH315 X	1140	1820	959

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH315 MK	2100	9.2	4200	0.85	2400	120	1800
GH315 LK	2200	10.4	4500	0.92	2400	120	1800
GH315 PK	2340	11.5	4900	1.01	2400	120	1800
GH315 XK	2500	12.7	5300	1.10	2300	120	1800

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6222 C3	NU222ECJ C3	6221 C3
V1 – V3	6222 C3	NU222ECJ C3	7221 BE

Electrical blower (IC06)	Weight	Blower motor power
	105 kg	5.5 kW (50 Hz) - 7.5 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	450 kg	7.5 kW (50/60 Hz)

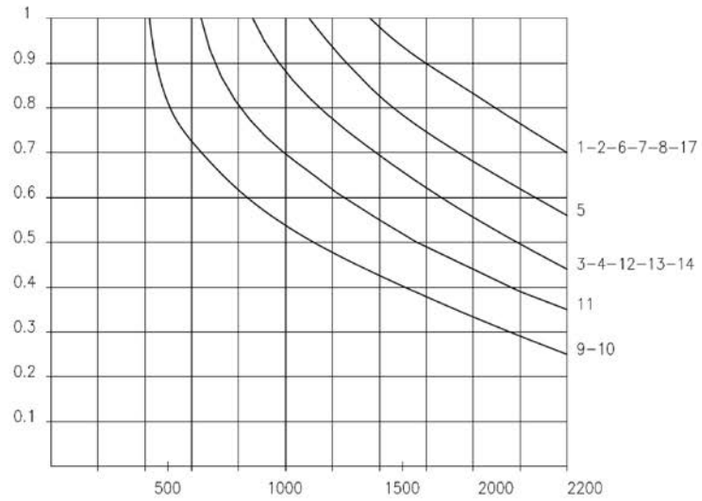
GH355

Performance Tables are displayed on multiple pages, alongside the data tables are repeated alternately overall dimensions (IC06- IC86W-IC37)

GH 355 K

RIDUZIONE DELLA POTENZA IN DISECCITAZIONE
DERATING FOR FIELD WEAKENING OPERATION
LEISTUNGSREDUZIERUNG BEI FELDSWÄCHUNG

GH 355 K (compensata - compensated - kompensiert)
[180% sovraccarico - overload - überlast]



P = K x P tabella potenza disponibile	Allowable power output P = K x P table		Werfügbare Leistung P = K x P table
per/for/für	GH 355 SK	K = K x 1.40	
	GH 355 MK	K = K x 1.26	
	GH 355 LK	K = K x 1.12	
	GH 355 PK	K = K x 1.0	
Per K ≥ 1 niente declassamento	For K ≥ 1 no derating		Für K ≥ 1 keine Leistungreduzierung

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

Electrical blower (IC06)	Weight	Blower motor power	
	110 kg	7.5 kW (50 / 60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	440 kg	9.2 kW (50 / 60 Hz)	

Nidec
All for dreams

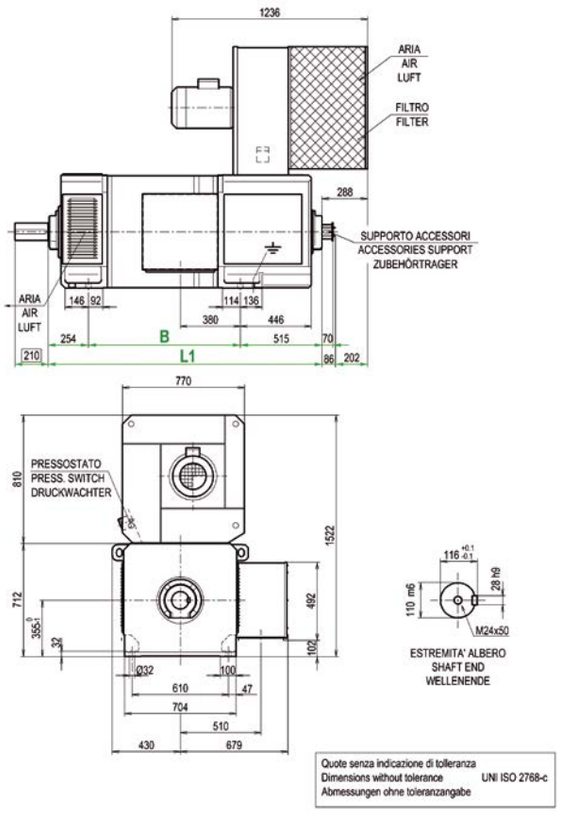
DC MOTORS

HOME

GH355 SK

Rated speed (rpm) at armature voltage						Excitation power (W): 5000 Field time costant (s): 1.33 Motor mass (kg): 2810 (IC06) Moment of inertia (kg m²): 15.0			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
1010						556	1500	92.7			
	1080					585	1500	93.0			
		1200				645	1500	93.4	0.211	0.012	1
			1370			725	1485	93.9			
920						510	1380	92.2			
	970					535	1380	92.5			
		1060				589	1380	92.9	0.253	0.015	2
			1250			665	1370	93.5			
				1450		760	1350	94.1			
840						465	1260	91.9			
	900					487	1260	92.2			
		980				537	1260	92.7	0.307	0.017	3
			1140			611	1260	93.3			
				1340		698	1240	93.9			
					1570	800	1210	94.4			
750						410	1115	91.8			
	790					431	1115	92.1			
		870				474	1115	92.6	0.375	0.020	4
			1010			540	1115	93.2			
				1170		624	1110	93.8			
					1370	720	1090	94.4			
680						371	1019	91.0			
	720					391	1019	91.4			
		790				431	1019	91.9	0.450	0.025	5
			910			491	1019	92.6			
				1060		565	1010	93.4			
					1250	660	1005	94.0			
590						312		89.6			
	620					329		90.0			
		680				364	872	90.7	0.587	0.036	6
			780			415		91.6			
				910		483		92.5			
					1090	570		93.3			
540						285		89.4			
	570					300		89.8			
		620				331	796	90.5	0.704	0.040	7
			710			378		91.4			
				830		440		92.3			
					970	519		93.1			

GH355 IM1001 - IP23 - IC06



Size	B	L1
GH355 S	960	1729
GH355 M	1010	1779
GH355 L	1070	1839
GH355 P	1140	1909

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

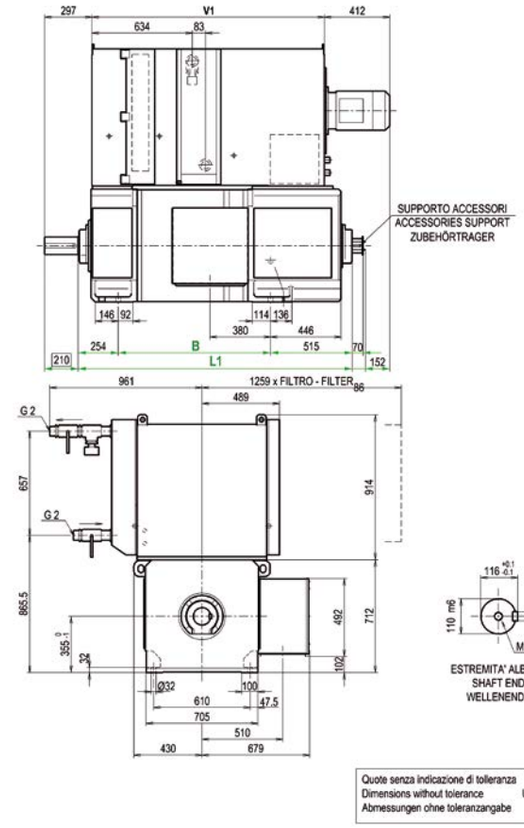
GO TO MENU

Nidec
All for dreams

GH355 SK

Rated speed (rpm) at armature voltage						Excitation power (W): 5000 Field time costant (s): 1.33 Motor mass (kg): 2810 (IC06) Moment of inertia (kg m²): 15.0			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
450						240		87.8			
	480					251		88.3			
		530				278	678	89.2	0.970	0.056	8
			600			318		90.2			
				700		371		91.3			
					820	438		92.3			
400						216	628	86.2			
	420					230	628	86.8			
		460				250	621	87.8	1.295	0.071	9
			530			287	621	89.0			
				620		336	621	90.3			
350						189		85.9			
	370					200		86.5			
		410				222	552	87.5	1.574	0.083	10
			480			255		88.8			
				540		298		90.0			
					660	352		91.2			
320						171		84.2			
	330					181		84.9			
		370				202	510	86.1	1.880	0.102	11
			420			232		87.5			
				490		272		89.0			
					580	322		90.3			
270						139		81.3			
	280					148		82.1			
		310				165	429	83.5	2.459	0.147	12
			360			190		85.3			
				420		224		87.0			
					500	266		88.6			
250						128		81.0			
	260					135		81.8			
		290				151	395	83.3	2.938	0.163	13
			330			174		85.0			
				390		206		86.8			
					460	245		88.5			
200						105		77.6			
	220					112		78.6			
		240				125	340	80.4	4.023	0.227	14
			280			146		82.5			
				320		172		84.6			
					380	206		86.6			

GH355 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH355 S	960	1729	1468
GH355 M	1010	1779	1518
GH355 L	1070	1839	1578
GH355 P	1140	1909	1648

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

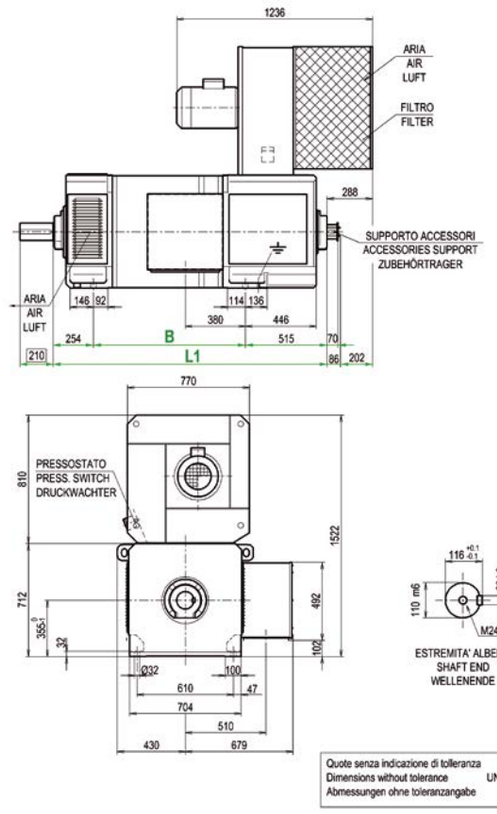
Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

GH355 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 5200 Field time costant (s): 1.40 Motor mass (kg): 3060 (IC06) Moment of inertia (kg m²): 16.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
910						558	1508	92.5	0.222	0.013	1
	980					587	1508	92.7			
		1080				646	1508	93.2			
			1240			725	1485	93.7			
830						507	1380	91.9	0.267	0.016	2
	870					534	1380	92.2			
		960				588	1380	92.7			
			1110			664	1370	93.3			
				1300		763	1355	93.9			
760						462	1260	91.6	0.323	0.018	3
	800					486	1260	91.9			
		880				536	1260	92.5			
			1010			610	1260	93.1			
				1170		697	1240	93.7			
					1400	800	1215	94.4			
680						408	1115	91.5	0.395	0.021	4
	710					430	1115	91.8			
		780				473	1115	92.4			
			890			539	1115	93.0			
				1050		623	1110	93.7			
					1250	720	1090	94.3			
610						370	1020	90.7	0.474	0.026	5
	650					390	1020	91.0			
		710				430	1020	91.7			
			810			490	1020	92.4			
				960		565	1010	93.2			
					1120	663	1010	93.8			
530						311		89.2	0.617	0.038	6
	560					328		89.6			
		620				362	872	90.4			
			700			414		91.3			
				820		482		92.2			
					980	568		93.0			
480						283		88.9	0.741	0.043	7
	510					298		89.4			
		560				330	796	90.2			
			640			377		91.1			
				750		439		92.0			
					880	517		92.9			

GH355 IM1001 - IP23 - IC06



Size	B	L1
GH355 S	960	1729
GH355 M	1010	1779
GH355 L	1070	1839
GH355 P	1140	1909

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

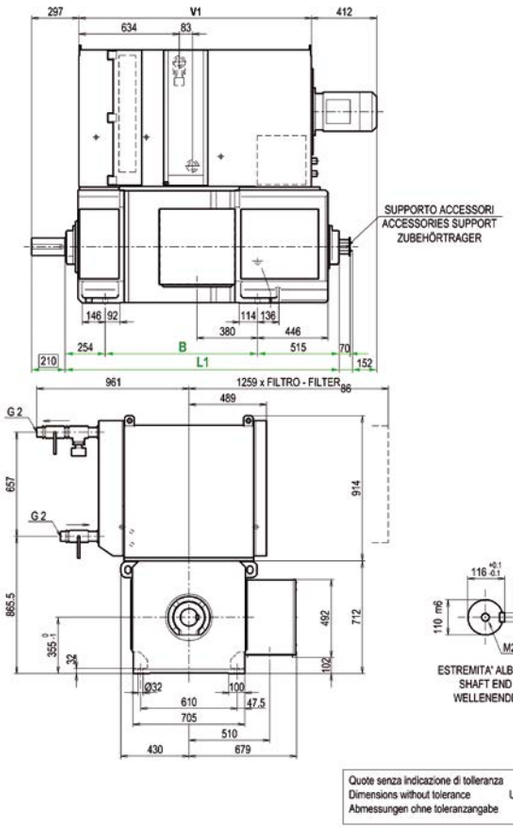
Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

GH355 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 5200 Field time costant (s): 1.40 Motor mass (kg): 3060 (IC06) Moment of inertia (kg m²): 16.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
410						236		87.3			
	430					250		87.8			
		470				276	678	88.7	1.021	0.060	8
			540			316		89.8			
				630		370		90.9			
					740	436		92.0			
360						216	628	85.6			
	380					228	628	86.2			
		410				250	620	87.3	1.363	0.075	9
			480			285	620	88.6			
				560		334	620	89.9			
310						188		85.2			
	330					199		85.9			
		370				221	552	86.9	1.657	0.087	10
			440			253		88.3			
				510		297		89.6			
					610	351		90.9			
280						170		83.5			
	300					180		84.2			
		330				200	510	85.4	1.979	0.108	11
			380			230		86.9			
				440		270		88.5			
					520	320		89.9			
235						138		80.4			
	250					146		81.3			
		280				163	429	82.8	2.589	0.155	12
			320			189		84.6			
				380		222		86.4			
					450	265		88.1			
220						126		80.1			
	230					134		81.0			
		260				150	395	82.5	3.093	0.172	13
			300			173		84.3			
				350		204		86.2			
					410	243		88.0			
		210				124		79.4			
			250			144	340	81.6	4.235	0.240	14
				290		171		83.9			
					350	204		85.9			

GH355 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH355 S	960	1729	1468
GH355 M	1010	1779	1518
GH355 L	1070	1839	1578
GH355 P	1140	1909	1648

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

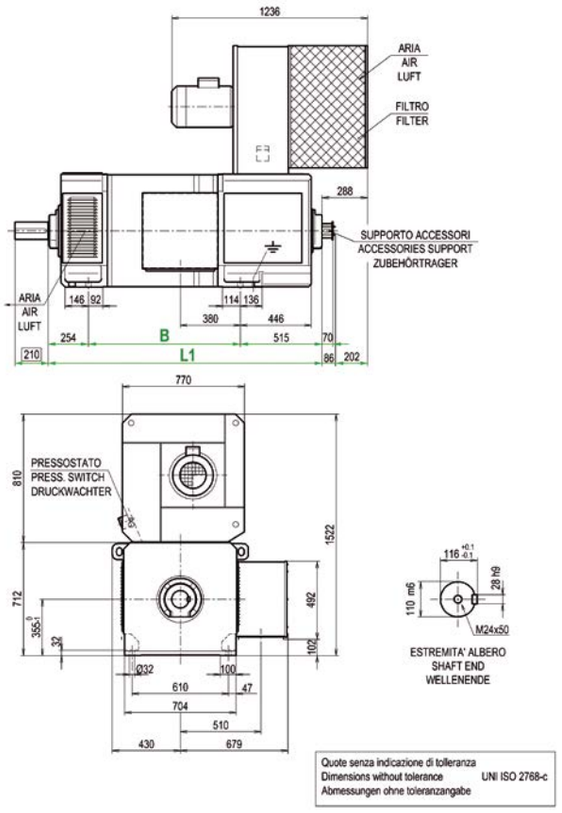
Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

GH355 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 5600 Field time costant (s): 1.48 Motor mass (kg): 3210 (IC06) Moment of inertia (kg m²): 18.8			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
810						556	1508	92.2	0.236	0.014	1
	860					586	1508	92.5			
		960				645	1508	93.0			
			1080			723	1485	93.5			
730						505	1380	91.6	0.283	0.017	2
	770					532	1380	91.9			
		850				586	1380	92.5			
			1010			663	1370	93.1			
				1150		761	1355	93.8			
670						461	1260	91.3	0.343	0.019	3
	710					485	1260	91.6			
		780				535	1260	92.2			
			910			610	1260	92.9			
				1060		695	1240	93.5			
					1250	800	1215	94.2			
600						406	1115	91.1	0.419	0.023	4
	630					428	1115	91.5			
		700				472	1115	92.1			
			790			537	1115	92.8			
				940		622	1110	93.5			
					1110	720	1090	94.1			
540						370	1021	90.3	0.502	0.028	5
	570					388	1021	90.6			
		630				428	1021	91.3			
			720			489	1021	92.1			
				830		563	1010	92.9			
					1010	662	1010	93.6			
470						309		88.7	0.654	0.040	6
	500					326		89.2			
		550				360	872	90.0			
			620			412		90.9			
				720		480		91.9			
					860	566		92.8			
430						281		88.4	0.785	0.045	7
	450					297		88.9			
		500				328	796	89.7			
			570			375		90.7			
				660		438		91.7			
					780	516		92.6			

GH355 IM1001 - IP23 - IC06



Size	B	L1
GH355 S	960	1729
GH355 M	1010	1779
GH355 L	1070	1839
GH355 P	1140	1909

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

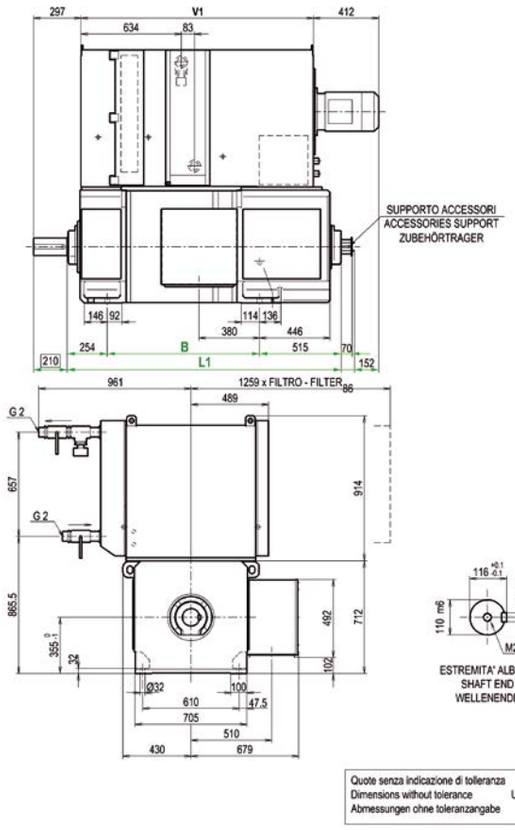
Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

GH355 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 5600 Field time costant (s): 1.48 Motor mass (kg): 3210 (IC06) Moment of inertia (kg m²): 18.8			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
360						234		86.6	1.082	0.063	8
	380					248		87.2			
		420				275	678	88.1			
			480			315		89.3			
				560		368		90.5			
					660	435		91.6			
315						215	628	84.9	1.445	0.080	9
	330					226	628	85.5			
		370				250	620	86.6			
			430			285	620	88.0			
				520		332	620	89.4			
275						186		84.4	1.756	0.093	10
	290					197		85.1			
		320				219	552	86.3			
			390			251		87.7			
				450		295		89.1			
					530	349		90.4			
245						168		82.6	2.098	0.115	11
	260					178		83.3			
		290				198	510	84.7			
			340			228		86.3			
				390		268		87.9			
					465	319		89.4			
210						136		79.3	2.744	0.165	12
	220					144		80.2			
		250				161	429	81.8			
			290			187		83.7			
				340		221		85.7			
					400	263		87.5			
190						124		79.0	3.278	0.183	13
	210					132		79.9			
		230				148	395	81.5			
			260			171		83.5			
				310		202		85.5			
					360	241		87.4			
		185				123		79.0	4.489	0.255	14
			215			143	340	80.6			
				255		170		83.0			
					305	203		85.2			

GH355 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH355 S	960	1729	1468
GH355 M	1010	1779	1518
GH355 L	1070	1839	1578
GH355 P	1140	1909	1648

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

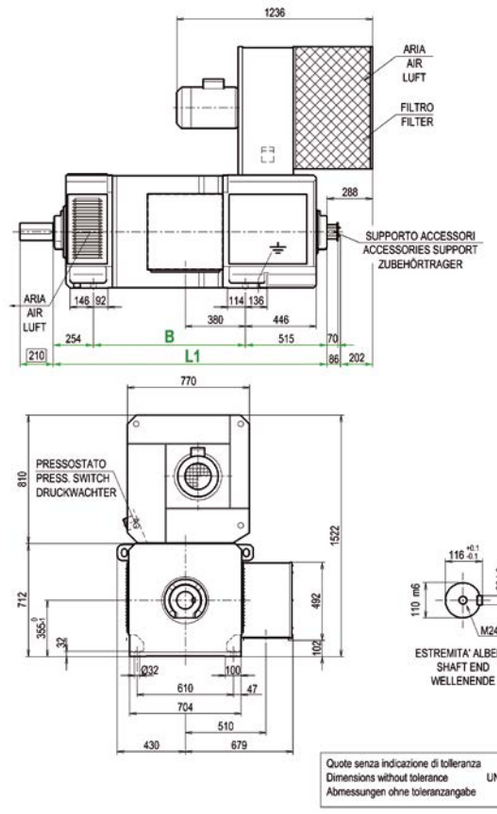
Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

GH355 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 6000 Field time costant (s): 1.55 Motor mass (kg): 3430 (IC06) Moment of inertia (kg m²): 21.0			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
720						555	1508	91.9			
	760					585	1508	92.2	0.251	0.015	1
		830				643	1508	92.7			
			960			720	1485	93.3			
655						503	1380	91.3			
	685					530	1380	91.6			
		760				584	1380	92.2	0.301	0.018	2
			860			660	1370	92.8			
				1020		760	1355	93.5			
600						460	1260	90.9			
	630					482	1260	91.2			
		690				532	1260	91.8	0.366	0.021	3
			790			606	1260	92.6			
				920		695	1240	93.3			
					1110	800	1210	94.1			
530						405	1115	90.7			
	560					426	1115	91.1			
		620				470	1115	91.7	0.447	0.025	4
			700			536	1115	92.5			
				820		620	1110	93.2			
					980	722	1100	93.9			
485						366	1020	89.8			
	510					386	1020	90.2			
		560				426	1020	90.9	0.536	0.031	5
			650			486	1020	91.7			
				750		560	1010	92.6			
					890	660	1010	93.4			
420						307		88.1			
	440					324		88.6			
		490				358	872	89.4	0.698	0.043	6
			560			410		90.5			
				650		478		91.5			
					770	564		92.5			
380						277		87.9			
	400					293		88.4			
		440				324	790	89.2	0.837	0.049	7
			500			370		90.3			
				590		433		91.3			
					690	510		92.3			

GH355 IM1001 - IP23 - IC06



Size	B	L1
GH355 S	960	1729
GH355 M	1010	1779
GH355 L	1070	1839
GH355 P	1140	1909

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

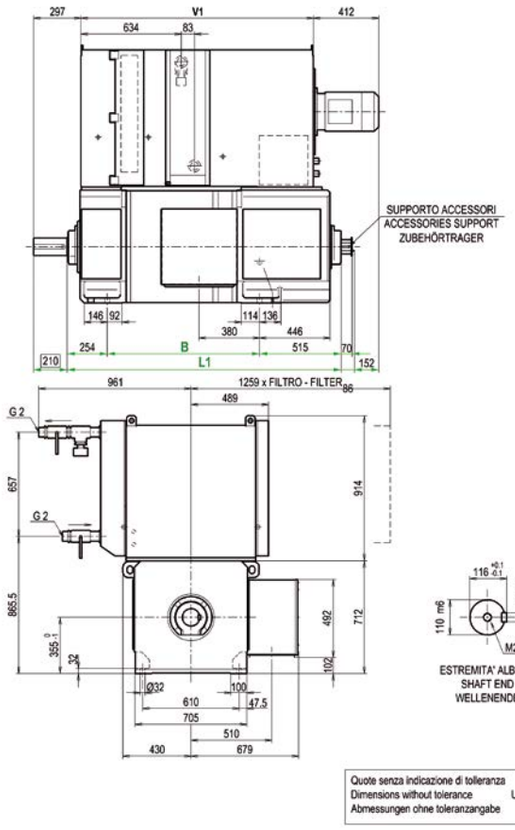
Nidec
All for dreams

DC MOTORS

GH355 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 6000 Field time costant (s): 1.55 Motor mass (kg): 3430 (IC06) Moment of inertia (kg m²): 21.0			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
315						232		85.8	1.153	0.069	8
	335					246		86.4			
		370				272	678	87.5			
			425			313		88.7			
				495		366		90.0			
					585	433		91.2			
275						212	628	83.8	1.540	0.087	9
	290					224	628	84.5			
		320				245	620	85.7			
			370			280	620	87.2			
				440		330	620	88.7			
240						184		83.5	1.872	0.101	10
	255					195		84.2			
		285				217	553	85.5			
			330			250		87.0			
				390		293		88.5			
					460	348		89.9			
215						166		81.5	2.237	0.125	11
	230					176		82.3			
		255				196	510	83.7			
			295			226		85.5			
				350		266		87.2			
					410	317		88.8			
180						134		78.0	2.925	0.179	12
	190					142		79.0			
		215				159	430	80.7			
			250			185		82.7			
				295		219		84.8			
					345	261		86.8			
		200				146		80.4	3.495	0.198	13
			230			169	395	82.5			
				270		200		84.6			
					320	239		86.6			
		160				120		76.8	4.786	0.277	14
			190			140	340	79.3			
				225		167		81.9			
					270	200		84.3			

GH355 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH355 S	960	1729	1468
GH355 M	1010	1779	1518
GH355 L	1070	1839	1578
GH355 P	1140	1909	1648

TECHNICAL DATA

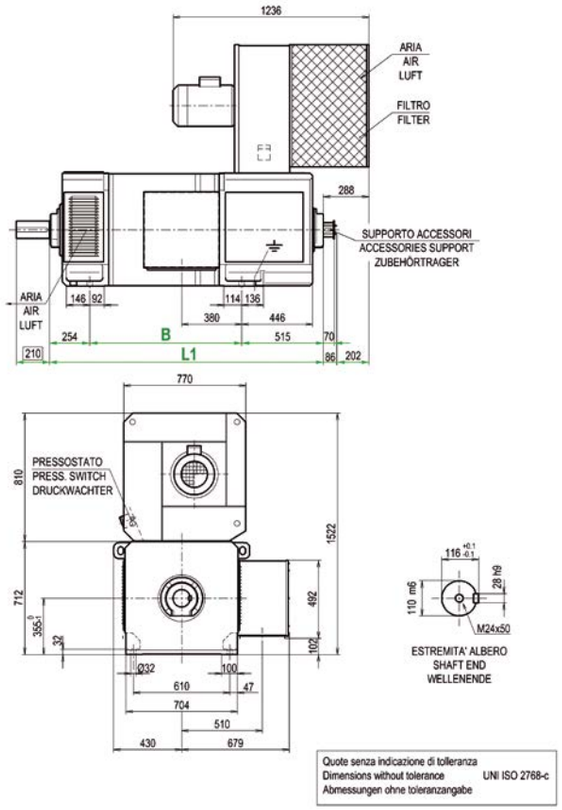
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

GH355 IM1001 - IP23 - IC06



Size	B	L1
GH355 S	960	1729
GH355 M	1010	1779
GH355 L	1070	1839
GH355 P	1140	1909

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

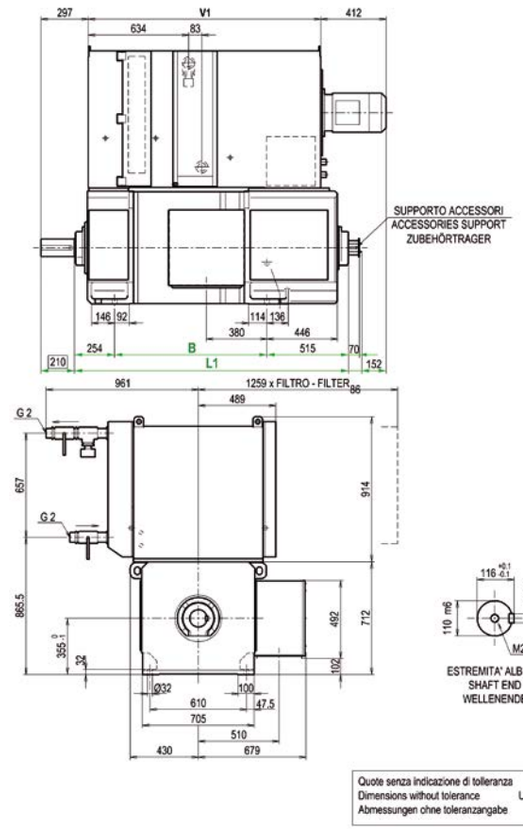
Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

Electrical blower (IC06)	Weight	Blower motor power	
	110 kg	7.5 kW (50 / 60 Hz)	

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	440 kg	9.2 kW (50 / 60 Hz)	

Nidec
All for dreams

GH355 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH355 S	960	1729	1468
GH355 M	1010	1779	1518
GH355 L	1070	1839	1578
GH355 P	1140	1909	1648

TECHNICAL DATA

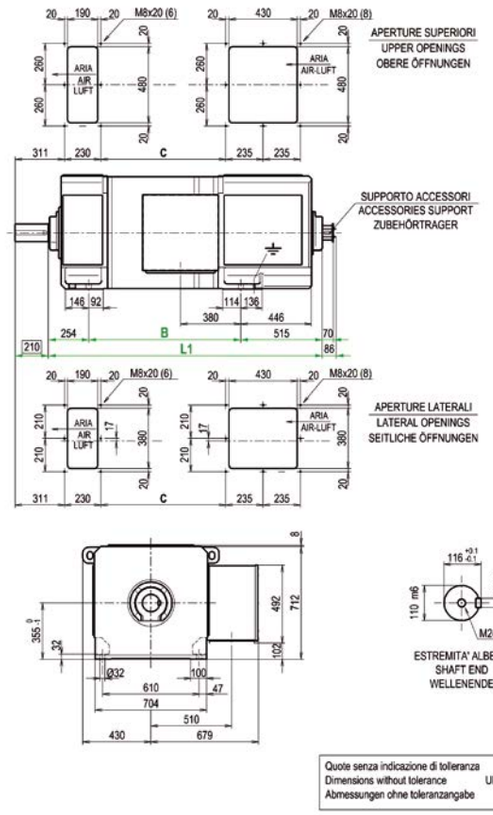
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

GH355 IM1001 - IP44 - IC37



Size	B	L1	C
GH355 S	960	1729	789
GH355 M	1010	1779	839
GH355 L	1070	1839	899
GH355 P	1140	1909	969

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH355 SK	2700	15.0	5000	1.33	2200	140	2050
GH355 MK	2950	16.5	5200	1.40	2200	140	2050
GH355 LK	3100	18.8	5600	1.48	2200	140	2050
GH355 PK	3320	21.0	6000	1.55	2100	140	2050

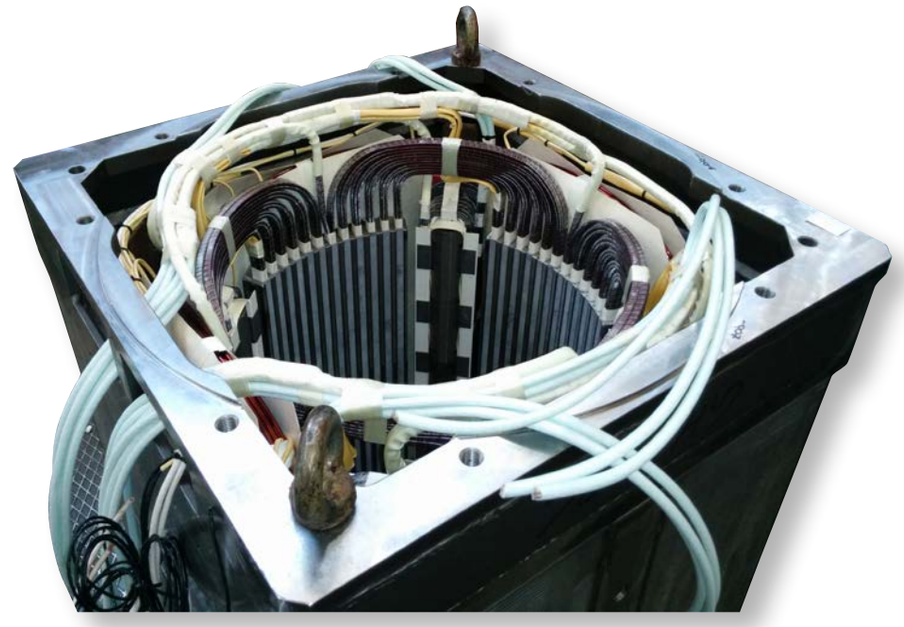
Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	6224 C3	NU224ECJ C3	6224 C3
V1 – V3	6224 C3	NU224ECJ C3	7224 B

Electrical blower (IC06)	Weight	Blower motor power
	110 kg	7.5 kW (50 / 60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	440 kg	9.2 kW (50 / 60 Hz)

GO TO MENU

GH400

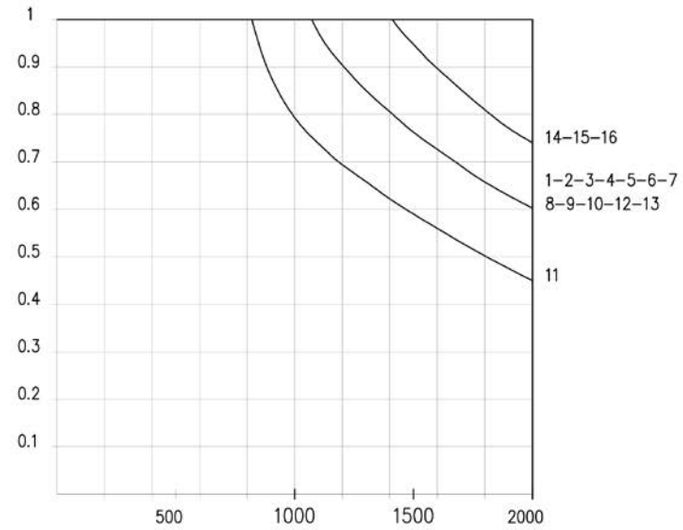


Performance Tables are displayed on multiple pages, alongside the data tables are repeated alternately overall dimensions (IC06- IC86W-IC37)

GH 400 K

RIDUZIONE DELLA POTENZA IN DISECCITAZIONE
DERATING FOR FIELD WEAKENING OPERATION
LEISTUNGSREDUZIERUNG BEI FELDSWÄCHUNG

GH 400 K (compensata - compensated - kompensiert)
[180% sovraccarico - overload - überlast]



P = K x P tabella potenza disponibile	Allowable power output P = K x P table		Werfügbare Leistung P = K x P table
per/for/für	GH 400 MK	K = K x 1.57	
	GH 400 LK	K = K x 1.35	
	GH 400 PK	K = K x 1.17	
Per K ≥ 1 niente declassamento	For K ≥ 1 no derating		Für K ≥ 1 keine Leistungreduzierung

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

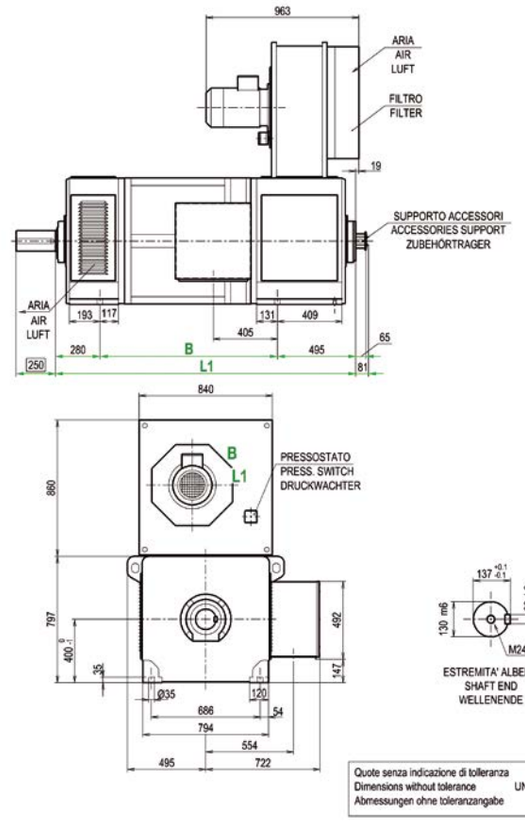
Nidec
All for dreams

DC MOTORS

GH400 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 5700 Field time costant (s): 1.2 Motor mass (kg): 3860 (IC06) Moment of inertia (kg m²): 31.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE MH	RESISTANCE AT 115 °C Ω	
780						612	1650	92.7			
	810					646	1650	93.2			
		900				710	1650	93.5	0.23	0.0135	1
			1030			806	1650	93.9			
				1190		916	1620	94.2			
700						590	1600	92.2			
	740					622	1600	92.6			
		810				685	1600	93.1	0.26	0.016	2
			920			769	1580	93.6			
				1080		885	1565	94.2			
640						538	1470	91.5			
	670					568	1470	92.0			
		740				625	1470	92.4	0.31	0.019	3
			850			703	1450	93.2			
				980		812	1440	94.0			
					1150	932	1410	94.4			
520						450	1250	90.0			
	540					472	1240	90.6			
		600				519	1240	91.0	0.44	0.028	4
			680			593	1240	92.0			
				790		685	1230	92.8			
					930	788	1200	93.8			
470						394	1100	89.5			
	500					416	1100	90.0			
		550				458	1100	90.5	0.55	0.032	5
			620			520	1095	91.3			
				730		604	1090	92.4			
					860	700	1070	93.5			
430						355	1000	88.8			
	450					375	1000	89.3			
		500				413	1000	89.8	0.66	0.040	6
			570			467	990	90.7			
				670		544	990	91.6			
					790	630	970	92.8			
400						328	930	88.2			
	420					346	930	88.6			
		470				382	930	89.2	0.78	0.044	7
			530			436	930	90.2			
				620		498	910	91.2			
					730	582	900	92.4			

GH400 IM1001 - IP23 - IC06



Size	B	L1
GH400 M	1120	1895
GH400 L	1200	1975
GH400 P	1290	2065

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

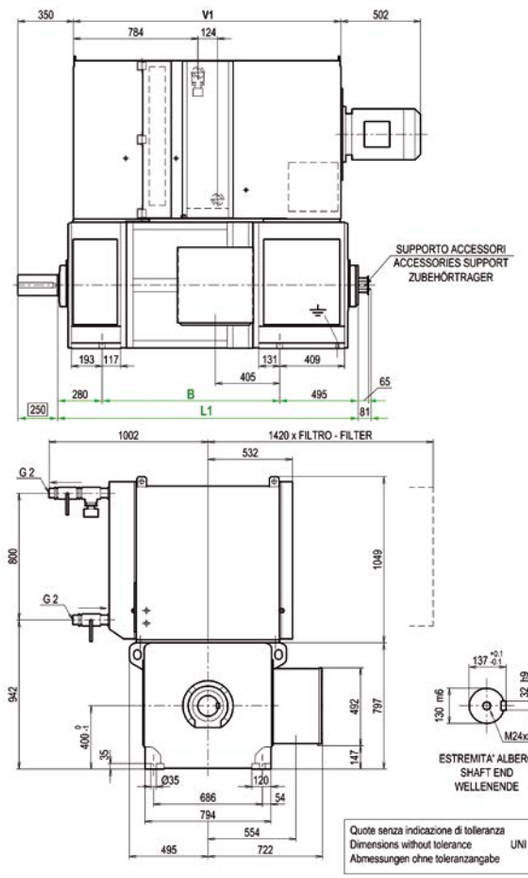
Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

GH400 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 5700 Field time costant (s): 1.2 Motor mass (kg): 3860 (IC06) Moment of inertia (kg m²): 31.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
370						298	855	87.1	0.92	0.056	8
	390					316	855	88.0			
		430				348	855	88.5			
			490			398	855	89.5			
				580		462	850	90.6			
					680	528	820	92.0			
320						264	770	85.7	1.17	0.063	9
	340					281	770	86.9			
		380				310	770	87.5			
			430			354	770	88.4			
				510		414	760	90.8			
					600	484	760	91.0			
310						247		85.2	1.25	0.073	10
	320					262		86.0			
		350				289	725	86.7			
			400			332		88.1			
				470		389		89.4			
					560	460		90.6			
270						226		84.6	1.46	0.081	11
	290					241		85.9			
		320				265	668	86.2			
			350			306		88.1			
				430		357		89.1			
					500	423		90.5			
250						206		83.1	1.74	0.100	12
	260					220		84.5			
		290				242	620	84.9			
			330			279		86.5			
				390		327		87.9			
					460	389		89.6			
230						189		82.2	1.90	0.110	13
	240					202		83.6			
		270				223	575	84.3			
			310			257		86.0			
				370		302		87.5			
					440	359		89.2			

GH400 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH400 M	1120	1895	1685
GH400 L	1200	1975	1765
GH400 P	1290	2065	1855

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

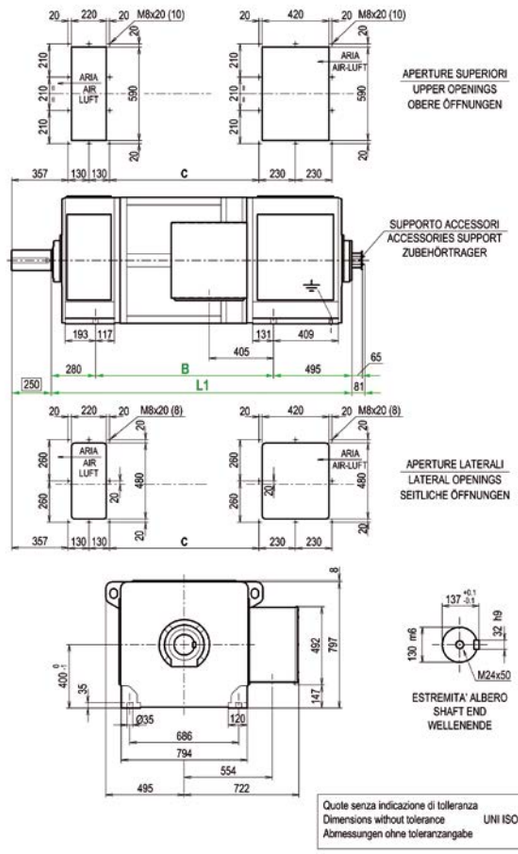
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

Nidec
All for dreams

GH400 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 5700 Field time costant (s): 1.2 Motor mass (kg): 3860 (IC06) Moment of inertia (kg m²): 31.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE MH	RESISTANCE AT 115 °C Ω	
210						171		79.2			
	220					183		80.7			
		250				202	540	81.3	2.30	0.150	14
			280			235		83.7			
				330		277		85.5			
					400	330		87.3			
190						156		78.8			
	200					167		80.3			
		220				185	495	81.2	2.70	0.157	15
			260			216		83.9			
				310		253		85.2			
					370	302		87.2			
	190					154		78.9			
		210				173	465	80.9			
			240			202		83.5	3.00	0.170	16
				290		237		84.9			
					340	283		86.9			

GH400 IM1001 - IP44 - IC37



Size	B	L1	C
GH400 M	1120	1895	942
GH400 L	1200	1975	1022
GH400 P	1290	2065	1112

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

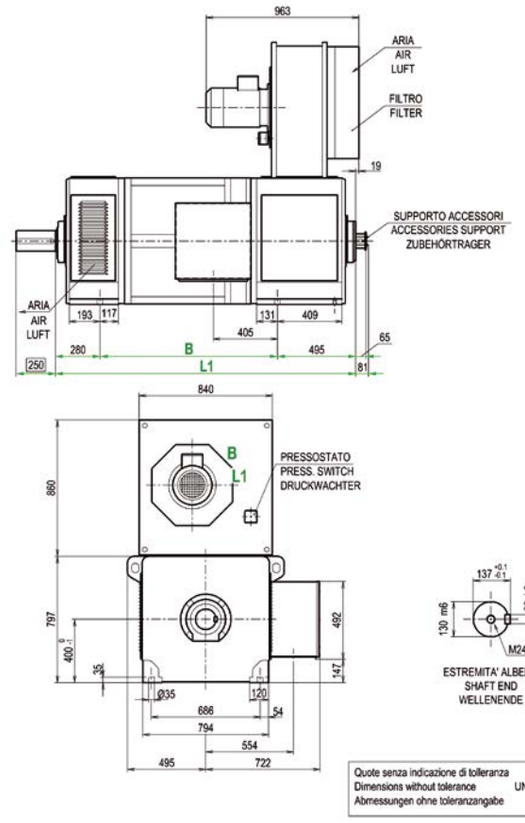
Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

GH400 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 6200 Field time costant (s): 1.3 Motor mass (kg): 4360 (IC06) Moment of inertia (kg m²): 34.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
660						608	1650	92.1			
	700					644	1650	92.9			
		780				708	1650	93.3	0.26	0.014	1
			890			805	1650	93.8			
				1030		927	1640	94.2			
600						584	1600	91.3			
	630					620	1600	92.3			
		690				684	1600	92.9	0.30	0.016	2
			790			766	1580	93.2			
				920		880	1560	94.0			
550						535	1470	91.0			
	580					564	1470	91.4			
		640				622	1470	92.1	0.36	0.020	3
			730			701	1450	93.0			
				840		810	1440	93.8			
					990	936	1420	94.2			
430						443	1240	89.3			
	460					467	1240	89.7			
		510				516	1240	90.5	0.52	0.030	4
			580			587	1235	91.4			
				680		682	1230	92.4			
					800	790	1210	93.3			
400						390	1095	89.0			
	430					411	1095	89.4			
		470				453	1095	89.9	0.64	0.034	5
			540			516	1090	91.0			
				630		599	1085	92.0			
					740	697	1070	93.1			
360						352	1000	88.0			
	390					372	1000	88.6			
		430				410	1000	89.1	0.77	0.044	6
			490			465	990	90.3			
				570		542	990	91.2			
					680	633	980	92.3			
340						324	930	87.1			
	360					343	930	87.8			
		400				379	930	88.6	0.90	0.048	7
			460			435	930	90.0			
				530		501	920	90.8			
					630	586	910	92.0			

GH400 IM1001 - IP23 - IC06



Size	B	L1
GH400 M	1120	1895
GH400 L	1200	1975
GH400 P	1290	2065

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

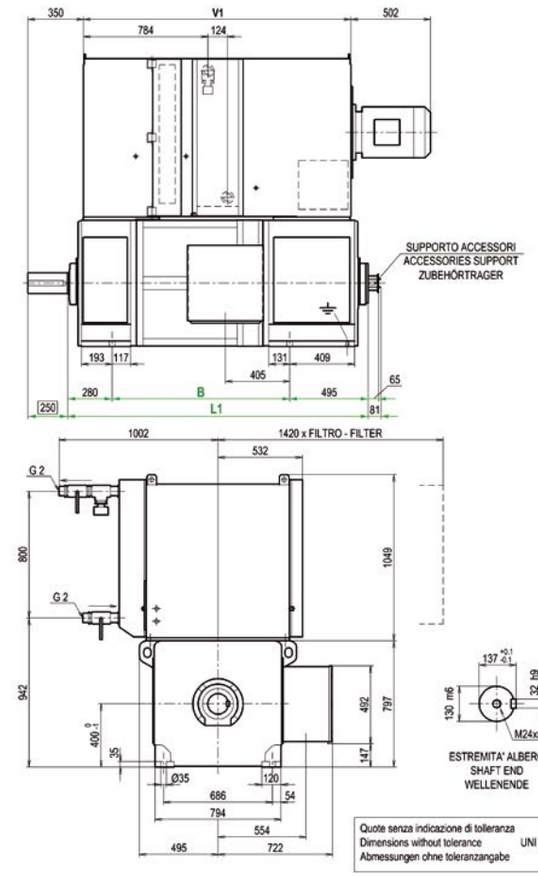
Nidec
All for dreams

DC MOTORS

GH400 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 6200 Field time costant (s): 1.3 Motor mass (kg): 4360 (IC06) Moment of inertia (kg m²): 34.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE MH	RESISTANCE AT 115 °C Ω	
310						297	855	86.8	1.08	0.058	8
	330					314	855	87.4			
		370				346	855	88.0			
			420			393	850	88.9			
				500		453	840	89.9			
					590	528	825	91.4			
280						262		85.1	1.36	0.068	9
	300					277		85.7			
		320				305	770	86.1			
			370			352		87.9			
				440		412		89.2			
					520	489		90.7			
260						244		84.1	1.70	0.078	10
	280					259		85.1			
		310				286	725	85.8			
			350			329		87.3			
				410		387		89.0			
					490	457		90.0			
230						224		83.8	2.00	0.087	11
	240					238		84.8			
		270				262	668	85.3			
			310			303		87.2			
				360		354		88.3			
					440	420		89.8			
210						202		81.5	2.32	0.107	12
	220					216		82.9			
		250				239	620	83.8			
			290			276		85.6			
				340		324		87.1			
					400	385		88.7			
200						186		80.9	2.62	0.118	13
	210					200		82.8			
		230				220	575	83.2			
			270			255		85.3			
				320		299		86.7			
					380	356		88.4			

GH400 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH400 M	1120	1895	1685
GH400 L	1200	1975	1765
GH400 P	1290	2065	1855

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

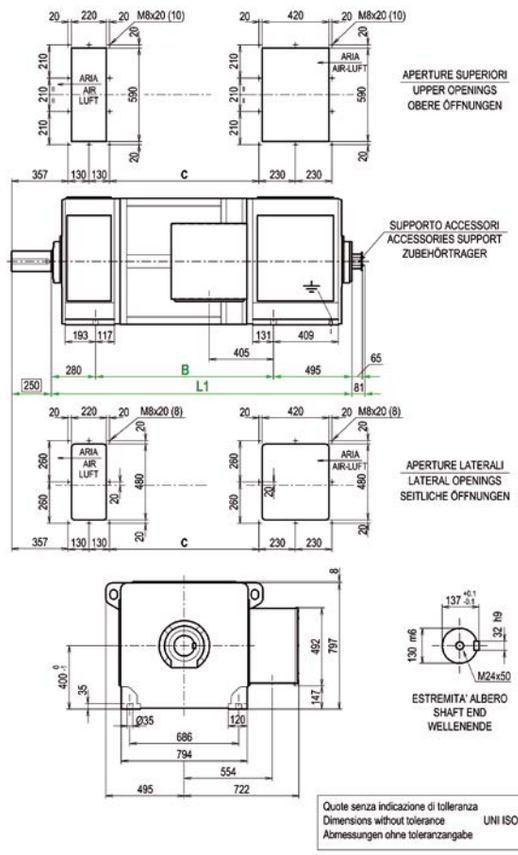
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

Nidec
All for dreams

GH400 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 6200 Field time costant (s): 1.3 Motor mass (kg): 4360 (IC06) Moment of inertia (kg m²): 34.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
		210				198	540	79.7	2.80	0.163	14
			240			231		82.3			
				290		272		84.0			
					350	326		86.2			
		200				181	495	79.5	3.60	0.168	15
			230			213		82.8			
				270		250		84.2			
					320	300		86.6			
			210			198	465	81.9	4.03	0.185	16
				250		234		83.9			
					300	280		86.0			

GH400 IM1001 - IP44 - IC37



Size	B	L1	C
GH400 M	1120	1895	942
GH400 L	1200	1975	1022
GH400 P	1290	2065	1112

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

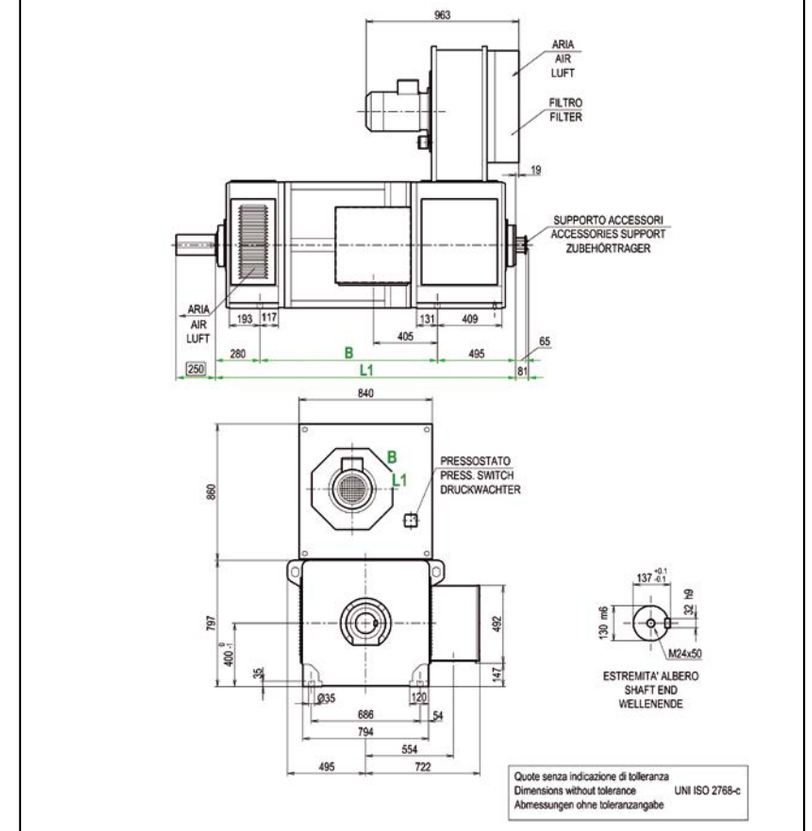
Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	620 kg	15.0 / 15.0 kW (50/60 Hz)	

GH400 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 6600 Field time costant (s): 1.4 Motor mass (kg): 4760 (IC06) Moment of inertia (kg m²): 38.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
570						607	1650	92.0			
	600					640	1650	92.4			
		660				704	1650	92.8	0.30	0.016	1
			760			803	1650	93.6			
				870		916	1620	94.2			
510						585	1600	91.4			
	540					616	1600	91.7			
		590				677	1600	92.0	0.35	0.018	2
			680			764	1580	93.0			
				790		878	1560	93.8			
470						532	1470	90.5			
	500					557	1460	90.8			
		550				614	1460	91.4	0.41	0.021	3
			630			697	1450	92.4			
				730		800	1430	93.2			
					860	923	1400	94.2			
380						442	1240	89.1			
	400					465	1240	89.3			
		440				512	1240	89.8			
			500			584	1235	90.8	0.60	0.032	4
				580		679	1230	92.0			
					690	788	1210	93.0			
350						386	1095	88.1			
	370					407	1095	88.5			
		400				448	1095	88.9			
			460			512	1090	90.4	0.74	0.037	5
				530		592	1080	91.4			
					640	692	1068	92.6			
310						349	1000	87.3			
	330					368	1000	87.6			
		370				406	1000	88.3			
			420			462	990	89.7	0.90	0.047	6
				490		539	990	90.7			
					580	631	980	92.0			
290						321	930	86.3			
	310					339	930	86.9			
		340				375	930	87.7			
			390			426	920	89.0	1.05	0.052	7
				460		491	910	89.9			
					540	577	900	91.6			

GH400 IM1001 - IP23 - IC06



Size	B	L1
GH400 M	1120	1895
GH400 L	1200	1975
GH400 P	1290	2065

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

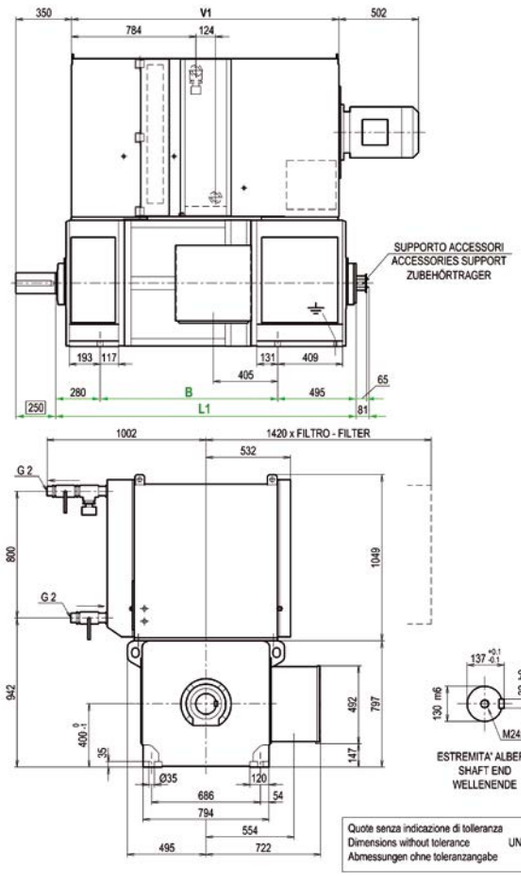
Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

GH400 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 6600 Field time costant (s): 1.4 Motor mass (kg): 4760 (IC06) Moment of inertia (kg m²): 38.5			Armature circuit		Winding code
400 V	420 V	460 V	520 V	600 V	700 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
270						292	855	85.4	1.26	0.065	8
	280					310	855	86.3			
		310				343	855	87.2			
			360			390	850	88.2			
				420		454	840	90.0			
					500	525	825	90.9			
240						258	770	83.8	1.57	0.075	9
	250					274	770	84.7			
		280				304	770	85.8			
			320			344	760	87.0			
				380		400	756	88.2			
					450	473	750	90.1			
230						241		83.1	1.90	0.083	10
	240					256		84.0			
		270				283	725	84.9			
			300			327		86.7			
				350		383		88.0			
					420	455		89.7			
200						221		82.7	2.30	0.095	11
	210					235		83.8			
		230				260	668	84.6			
			270			300		86.4			
				320		351		87.6			
					380	416		89.0			
	190					213		81.8	2.60	0.110	12
		210				238	620	83.5			
			250			274		85.0			
				290		322		86.6			
					350	383		88.2			
		200				219	575	82.8	3.04	0.125	13
			230			253		84.6			
				270		295		85.5			
					320	354		88.0			
			210			288	540	81.2	3.20	0.178	14
				250		267		82.4			
					300	322		85.2			
			190			209	495	81.2	4.10	0.182	15
				220		247		83.2			
					270	296		86.4			
				210		230	465	82.4	3.20	0.178	16
					250	277		85.1			

GH400 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH400 M	1120	1895	1685
GH400 L	1200	1975	1765
GH400 P	1290	2065	1855

TECHNICAL DATA

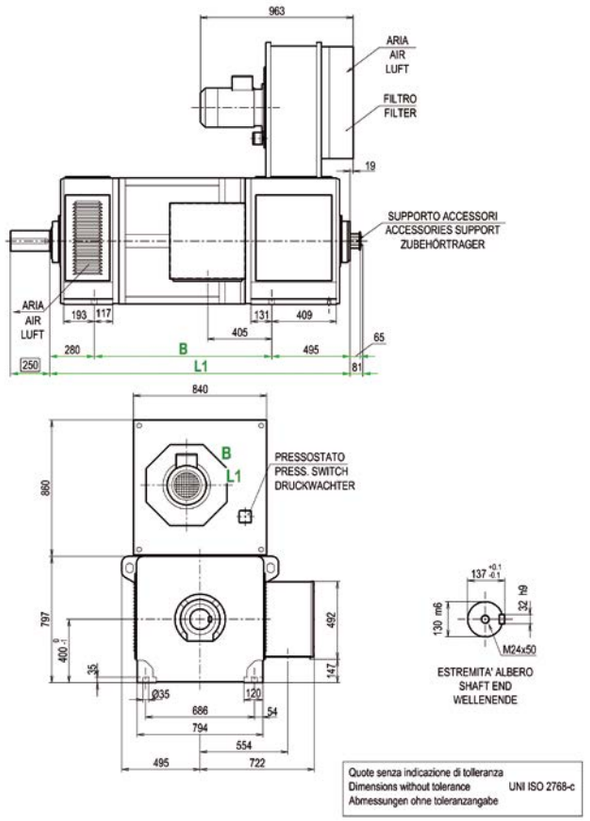
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

GH400 IM1001 - IP23 - IC06



Size	B	L1
GH400 M	1120	1895
GH400 L	1200	1975
GH400 P	1290	2065

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

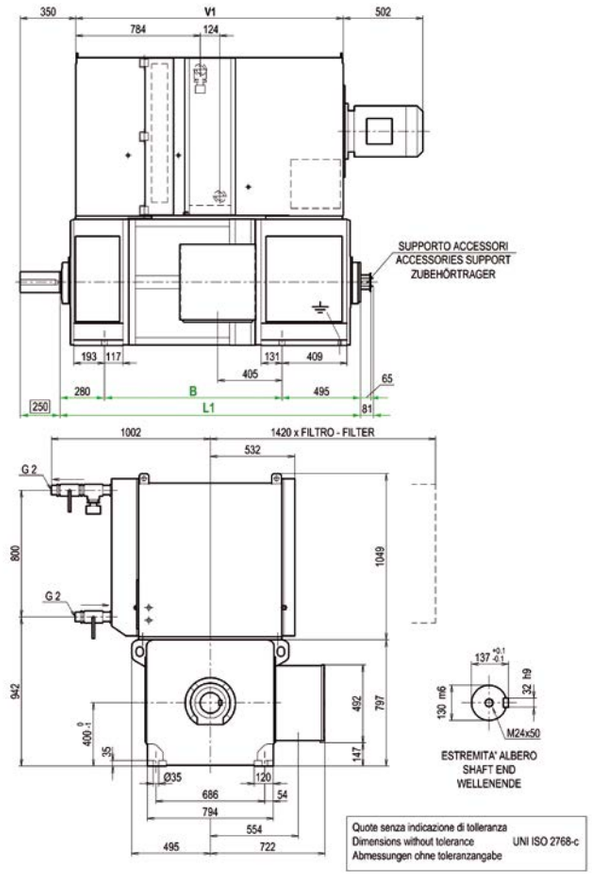
Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

Nidec
All for dreams

GH400 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH400 M	1120	1895	1685
GH400 L	1200	1975	1765
GH400 P	1290	2065	1855

TECHNICAL DATA

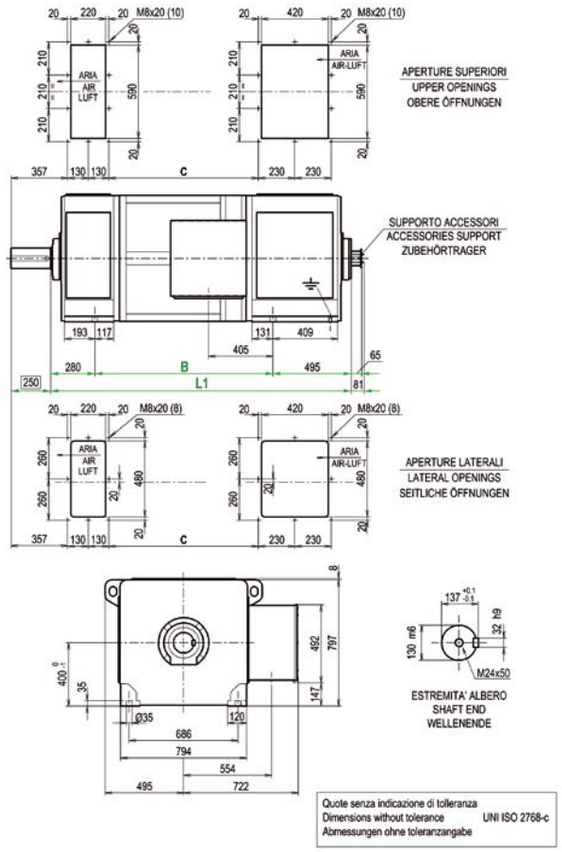
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	620 kg	15.0 / 15.0 kW (50/60 Hz)

GH400 IM1001 - IP44 - IC37



Size	B	L1	C
GH400 M	1120	1895	942
GH400 L	1200	1975	1022
GH400 P	1290	2065	1112

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH400 MK	3700	31.5	5700	1.20	2000	180	1300
GH400 LK	4200	34.5	6200	1.30	2000	180	1300
GH400 PK	4600	38.5	6600	1.40	1900	180	1300

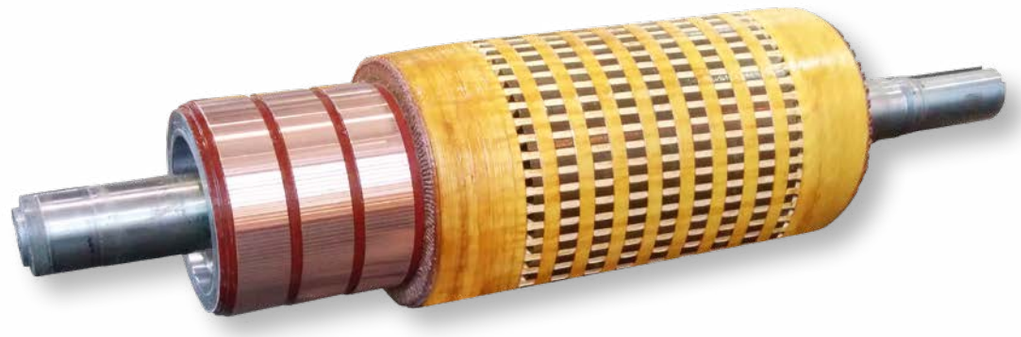
Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU228ECM C3	NU228ECM C3	6228 C3
V1 – V3	6228 C3	NU228ECM C3	7228 B

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	7.5 kW (50 Hz) - 9.2 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	620 kg	15.0 / 15.0 kW (50/60 Hz)	

GO TO MENU

GH450

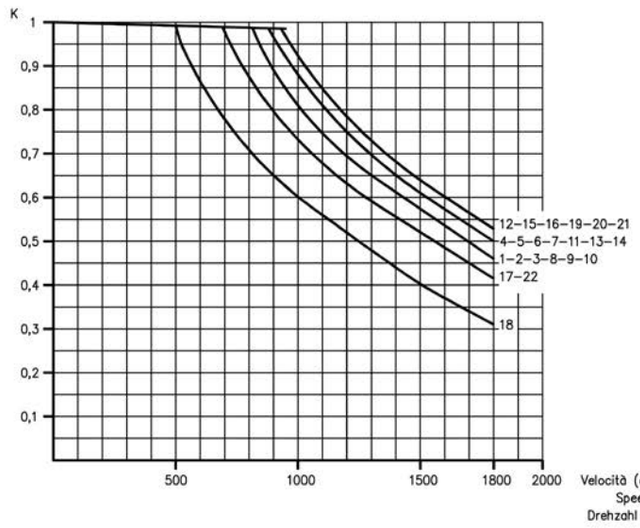


Performance Tables are displayed on multiple pages, alongside the data tables are repeated alternately overall dimensions (IC06- IC86W-IC37)

GH 450 K

RIDUZIONE DELLA POTENZA IN DISECCITAZIONE
DERATING FOR FIELD WEAKENING OPERATION
LEISTUNGSREDUZIERUNG BEI FELDSWÄCHUNG

GH 450 K (compensata - compensated - kompensiert)
[180% sovraccarico - overload - überlast]



P = K x P tabella potenza disponibile	Allowable power output P = K x P table	Werfügbare Leistung P = K x P table
per/for/für	GH 450 M	K = K x 1.55
	GH 450 L	K = K x 1.40
	GH 450 P	K = K x 1.25
	GH 450 X	K = K x 1.10
	GH 450 Y	K = K x 1
Per K ≥ 1 niente declassamento	For K ≥ 1 no derating	Für K ≥□1 keine Leistungreduzierung

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

Nidec
All for dreams

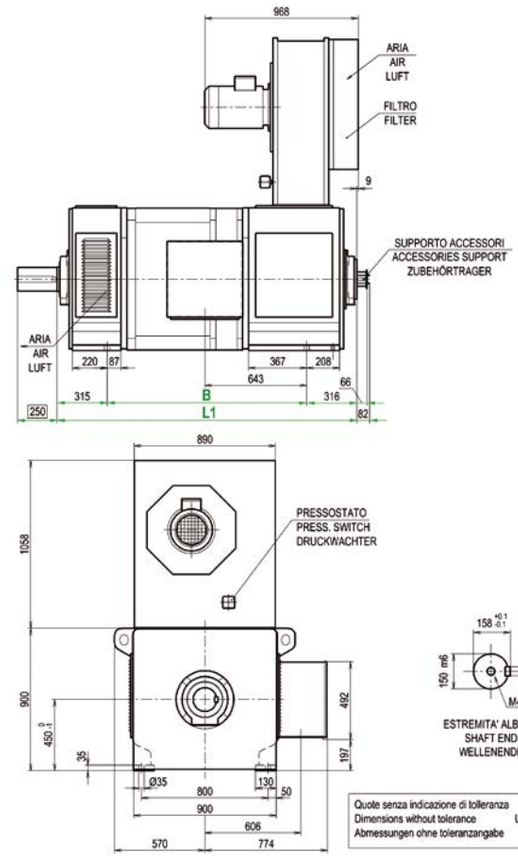
DC MOTORS

HOME

GH450 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 5300 Field time costant (s): 1.5 Motor mass (kg): 5060 (IC06) Moment of inertia (kg m²): 38.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
730						751		92.2			
	800					829		92.9			
		910				942	1940	93.4	0.22	0.011	1
			1070			1090		94.0			
690						724	1870	92.2			
	760					799	1870	92.9			
		860				908	1870	93.4	0.25	0.012	2
			1000			1045	1855	93.9			
600						654	1700	91.6			
	670					721	1700	92.2			
		760				820	1700	92.7	0.32	0.015	3
			880			953	1700	93.4			
				1050		1110	1685	94.2			
570						626		91.4			
	630					692		92.2			
		720				786	1630	92.7	0.35	0.016	4
			840			914		93.4			
				980		1073		94.2			
550						606		91.4			
	610					668		92.0			
		690				760	1578	92.6	0.38	0.017	5
			810			883		93.3			
				950		1038		94.0			
510						563		91.2			
	570					620		91.7			
		640				706	1470	92.4	0.44	0.019	6
			750			822		93.2			
				880		964		93.7			
470						516		89.7			
	520					571		90.6			
		590				650	1370	91.3	0.50	0.024	7
			690			759		92.3			
				810		893		93.1			
					940	1027		93.7			
440						473		89.4			
	490					524		90.4			
		560				597	1260	91.2	0.57	0.026	8
			650			697		92.2			
				760		819		92.8			
					880	942		93.5			

GH450 IM1001 - IP23 - IC06



Size	B	L1
GH450 M	1360	1991
GH450 L	1420	2051
GH450 P	1490	2121
GH450 X	1570	2201
GH450 Y	1660	2291

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

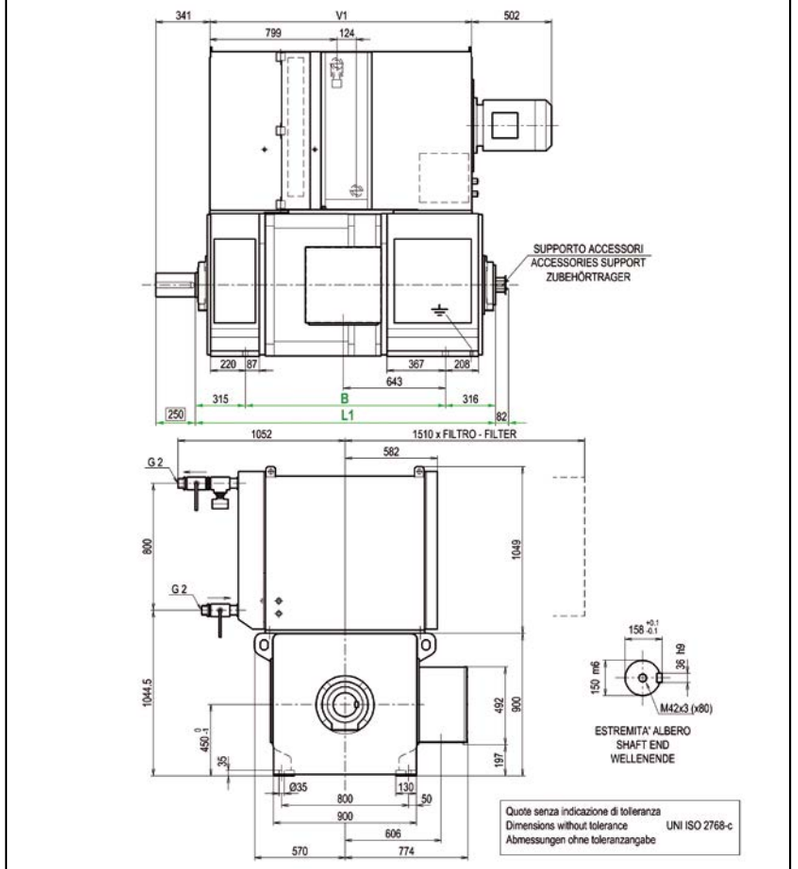
Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

GH450 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 5300 Field time costant (s): 1.5 Motor mass (kg): 5060 (IC06) Moment of inertia (kg m²): 38.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
420						441		89.3			
	460					489		90.4			
		520				557	1176	91.1	0.64	0.029	9
			610			648		91.9			
				720		764		92.8			
					830	880		93.5			
390						426		89.0			
	430					471		89.8			
		490				537	1140	90.6	0.71	0.032	10
			580			628		91.8			
				680		739		92.6			
					780	851		93.3			
370						407		88.6			
	410					451		89.6			
		470				515	1094	90.6	0.78	0.034	11
			550			602		91.7			
				650		709		92.6			
					750	817		93.3			
340						374		87.6			
	380					414		88.6			
		430				473	1016	89.5	0.91	0.040	12
			510			554		90.9			
				600		654		91.9			
					690	754		92.8			
320						343		86.9			
	360					384		88.8			
		410				435	940	89.1	1.01	0.047	13
			480			509		90.2			
				560		602		91.5			
					650	696		92.5			
300						319		86.5			
	340					353		87.4			
		380				405	878	88.7	1.14	0.052	14
			450			474		90.0			
				530		561		91.3			
					610	649		92.2			

GH450 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH450 M	1360	1991	1751
GH450 L	1420	2051	1811
GH450 P	1490	2121	1881
GH450 X	1570	2201	1961
GH450 Y	1660	2291	2051

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

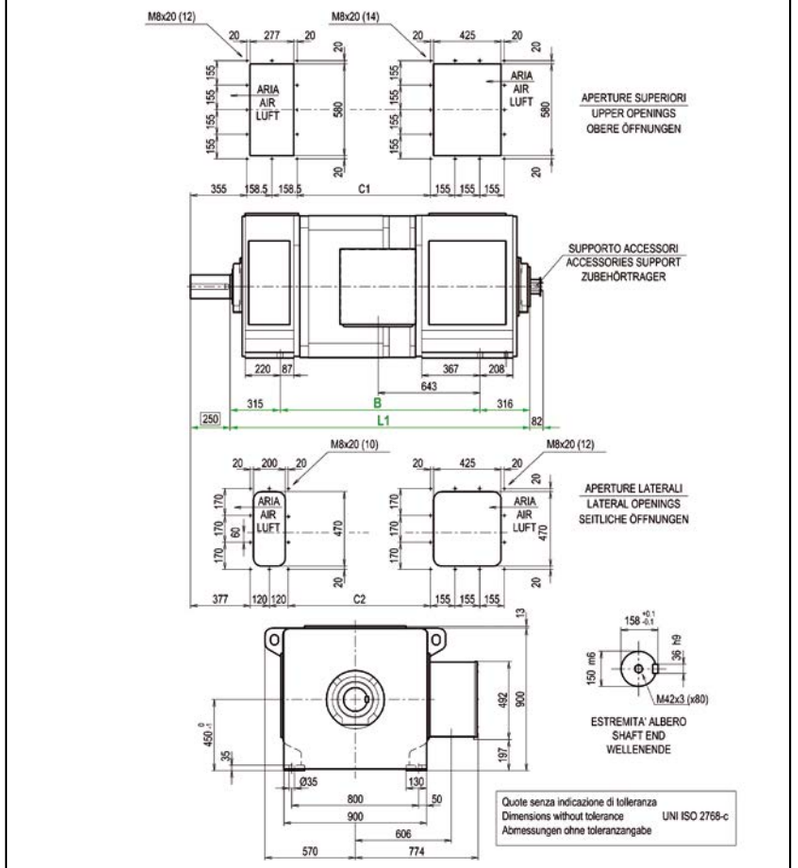
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

Nidec
All for dreams

GH450 MK

Rated speed (rpm) at armature voltage						Excitation power (W): 5300 Field time costant (s): 1.5 Motor mass (kg): 5060 (IC06) Moment of inertia (kg m²): 38.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
290						309		85.3			
	320					343		86.5			
		370				393	862	87.7	1.22	0.059	15
			430			461		89.1			
				510		546		90.5			
					590	630		91.3			
270						282		84.7			
	300					313		85.9			
		340				360	792	87.4	1.39	0.067	16
			400			422		88.8			
				470		500		90.1			
					550	577		91.1			

GH450 IM1001 - IP44 - IC37



Size	B	L1	C1	C2
GH450 M	1360	1991	941	996
GH450 L	1420	2051	1001	1056
GH450 P	1490	2121	1071	1126
GH450 X	1570	2201	1151	1206
GH450 Y	1660	2291	1241	1296

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

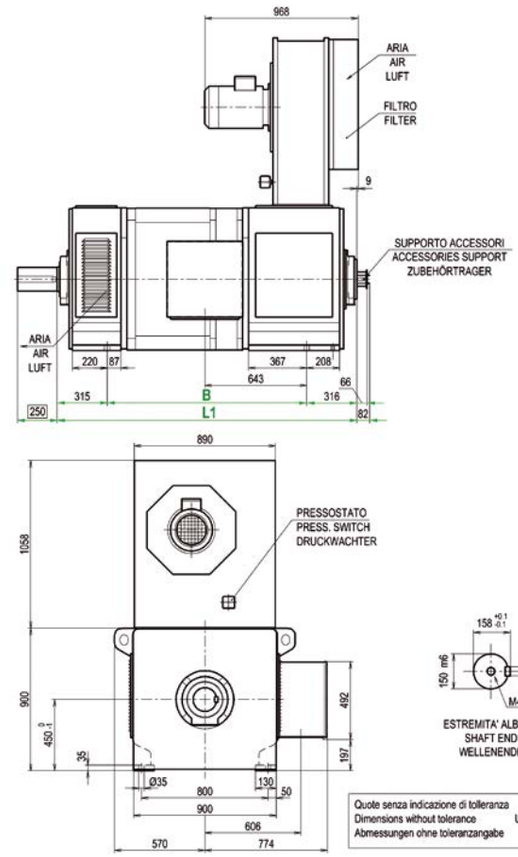
Nidec
All for dreams

DC MOTORS

GH450 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 6000 Field time costant (s): 1.95 Motor mass (kg): 5360 (IC06) Moment of inertia (kg m²): 43.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
650						750	1940	92.0	0.24	0.011	1
	720					827	1940	92.7			
		820				940	1940	93.2			
			950			1080	1920	93.8			
610						722	1870	92.0	0.27	0.012	2
	680					797	1870	92.7			
		770				906	1870	93.2			
			890			1040	1850	93.8			
540						652	1700	91.3	0.34	0.016	3
	600					720	1700	92.0			
		680				817	1700	92.5			
			790			950	1700	93.2			
				930		1106	1680	94.1			
510						625		91.3	0.37	0.017	4
	560					690		92.0			
		640				784	1630	92.5			
			750			912		93.2			
				880		1072		94.0			
490						605		91.3	0.40	0.018	5
	540					666		91.8			
		620				758	1578	92.4			
			720			881		93.1			
				840		1036		93.8			
460						562		91.0	0.46	0.020	6
	500					619		91.5			
		570				705	1470	92.2			
			670			820		93.0			
				780		962		93.5			
420						514		89.3	0.53	0.026	7
	460					568		90.1			
		530				648	1370	91.0			
			620			756		92.0			
				730		891		93.0			
					840	1025		93.5			
390						472		89.2	0.60	0.028	8
	440					524		90.4			
		500				596	1260	91.0			
			580			696		92.1			
				680		817		92.6			
					790	940		93.3			

GH450 IM1001 - IP23 - IC06



Size	B	L1
GH450 M	1360	1991
GH450 L	1420	2051
GH450 P	1490	2121
GH450 X	1570	2201
GH450 Y	1660	2291

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

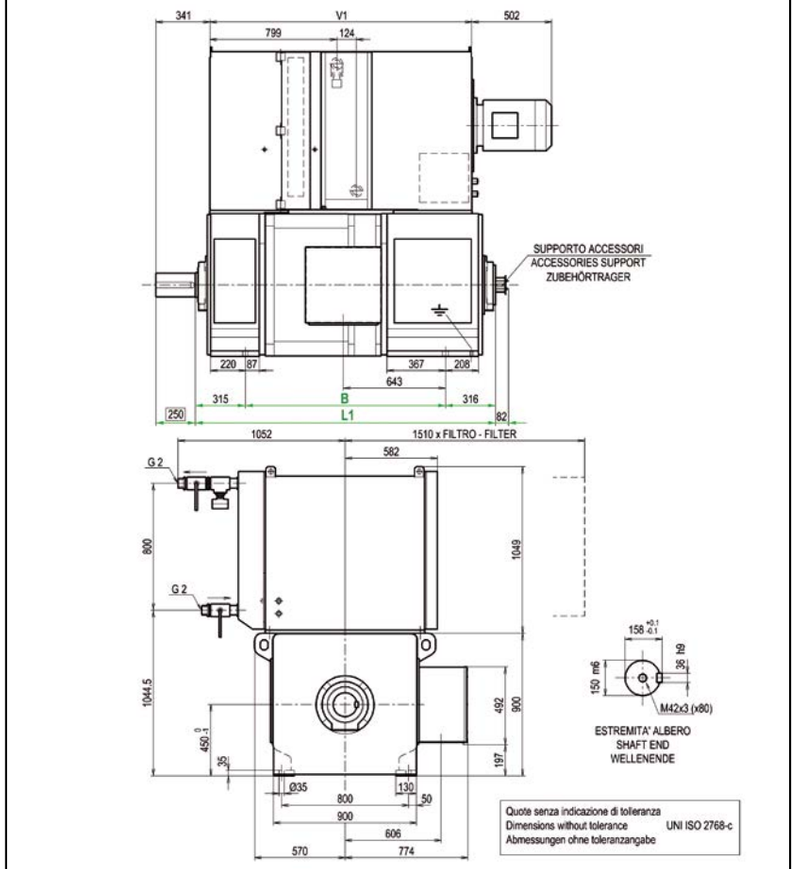
Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

GH450 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 6000 Field time costant (s): 1.95 Motor mass (kg): 5360 (IC06) Moment of inertia (kg m²): 43.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
370						440		89.1			
	410					488		90.2			
		470				555	1176	90.8	0.67	0.032	9
			550			647		91.7			
				640		762		92.6			
					740	878		93.3			
350						425		88.8			
	390					470		89.7			
		440				536	1140	90.4	0.75	0.033	10
			510			626		91.5			
				610		737		92.4			
					700	849		93.1			
330						373		87.4			
	370					413		88.4			
		420				472	1016	89.3	0.96	0.043	11
			490			552		90.6			
				580		652		91.7			
					670	752		92.5			
300						373		87.4			
	340					413		88.4			
		390				472	1016	89.3	0.96	0.043	12
			450			552		90.6			
				530		652		91.7			
					620	752		92.5			
290						342		86.6			
	320					383		88.5			
		360				434	940	88.9	1.07	0.050	13
			430			508		90.1			
				500		600		91.2			
					580	694		92.3			
270						318		86.2			
	300					352		87.2			
		340				404	878	88.5	1.20	0.054	14
			400			473		89.8			
				470		560		91.1			
					550	646		92.0			

GH450 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH450 M	1360	1991	1751
GH450 L	1420	2051	1811
GH450 P	1490	2121	1881
GH450 X	1570	2201	1961
GH450 Y	1660	2291	2051

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

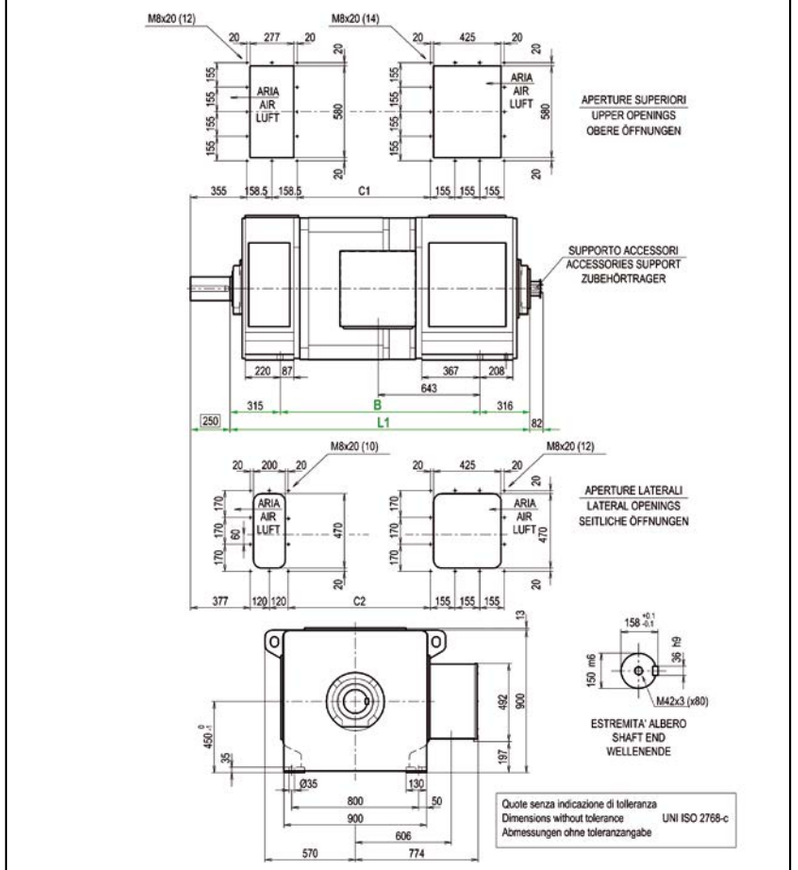
Nidec
All for dreams

DC MOTORS

GH450 LK

Rated speed (rpm) at armature voltage						Excitation power (W): 6000 Field time costant (s): 1.95 Motor mass (kg): 5360 (IC06) Moment of inertia (kg m²): 43.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
260						308		85.0			
	290					342		86.3			
		330				392	862	87.5	1.29	0.062	15
			380			460		88.9			
				450		544		90.2			
					520	628		91.1			
240						281		84.5			
	270					312		85.6			
		300				359	792	87.2	1.47	0.071	16
			360			421		88.6			
				420		500		90.1			
					590	576		90.9			

GH450 IM1001 - IP44 - IC37



Size	B	L1	C1	C2
GH450 M	1360	1991	941	996
GH450 L	1420	2051	1001	1056
GH450 P	1490	2121	1071	1126
GH450 X	1570	2201	1151	1206
GH450 Y	1660	2291	1241	1296

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power	
	650 kg	15.0 kW (50 / 60 Hz)	

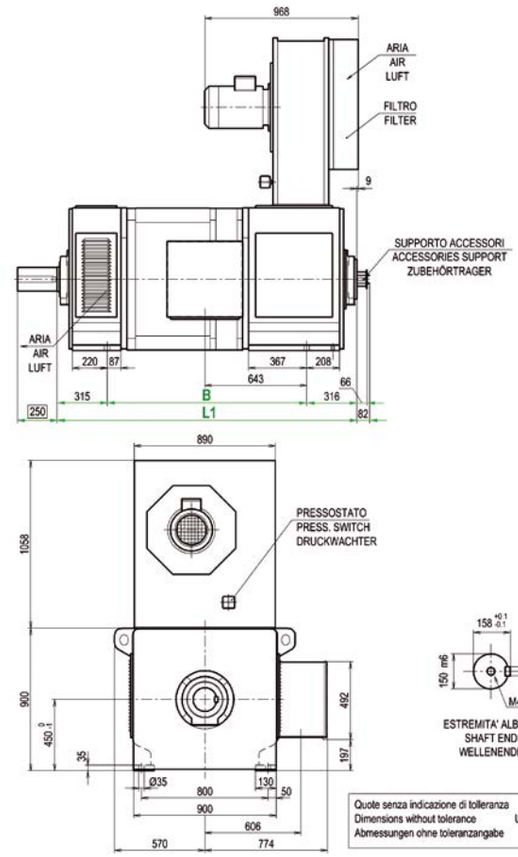
Nidec
All for dreams

DC MOTORS

GH450 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 6500 Field time costant (s): 2.0 Motor mass (kg): 5660 (IC06) Moment of inertia (kg m²): 49.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
580						749	1940	91.9			
	640					826	1940	92.6	0.25	0.012	1
		720				940	1940	93.2			
			840			1080	1920	93.8			
540						717	1860	91.8			
	600					792	1860	92.6	0.28	0.013	2
		680				900	1860	93.1			
			790			1040	1850	93.7			
480						650	1700	90.7			
	530					718	1700	91.7			
		600				817	1700	92.5	0.35	0.016	3
			700			953	1700	93.4			
				830		1105	1680	94.1			
450						620		90.6			
	500					687		91.6			
		570				781	1630	92.1	0.39	0.018	4
			670			909		92.9			
				800		1069		93.7			
430						600		90.5			
	480					663		91.3			
		550				755	1578	92.0	0.43	0.019	5
			640			880		92.9			
				750		1034		93.6			
410						560		90.7			
	450					616		91.1			
		510				702	1470	91.8	0.49	0.021	6
			590			818		92.7			
				700		962		93.5			
370						514		89.3			
	410					564		89.5			
		470				645	1370	90.6	0.56	0.027	7
			550			754		91.7			
				650		887		92.5			
					740	1023		93.3			
350						471		89.0			
	380					519		89.5			
		440				593	1260	90.5	0.64	0.030	8
			510			692		91.5			
				610		816		92.5			
					700	940		93.3			

GH450 IM1001 - IP23 - IC06



Size	B	L1
GH450 M	1360	1991
GH450 L	1420	2051
GH450 P	1490	2121
GH450 X	1570	2201
GH450 Y	1660	2291

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

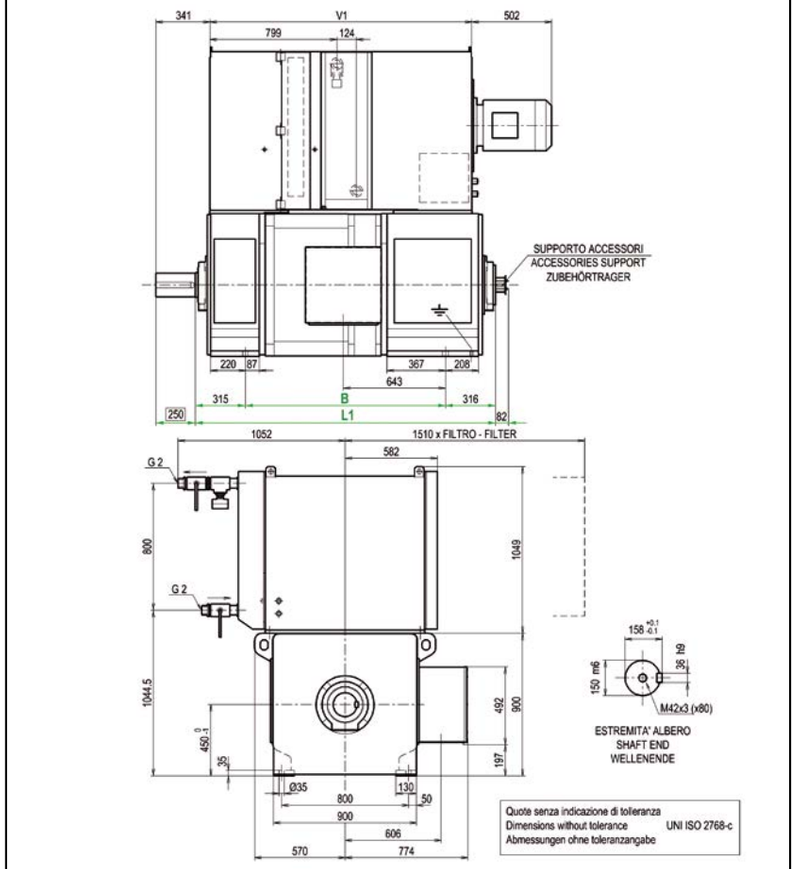
Nidec
All for dreams

DC MOTORS

GH450 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 6500 Field time costant (s): 2.0 Motor mass (kg): 5660 (IC06) Moment of inertia (kg m²): 49.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
320						438		88.7			
	360					482		89.1			
		410				552	1176	90.3	0.71	0.033	9
			480			644		91.3			
				570		760		92.3			
					660	876		93.1			
310						423		88.3			
	340					465		88.7			
		390				533	1140	89.9	0.80	0.036	10
			460			623		91.1			
				540		736		92.2			
					620	847		92.9			
300						405		88.1			
	330					445		88.5			
		370				511	1094	89.8	0.87	0.039	11
			440			598		91.1			
				510		705		92.1			
					590	813		92.9			
270						371		86.9			
	300					410		87.7			
		340				470	1016	89.0	1.01	0.047	12
			400			549		90.0			
				470		650		91.4			
					550	750		92.3			
250						342		86.5			
	280					376		86.9			
		320				433	941	88.5	1.13	0.052	13
			380			506		89.7			
				450		598		90.8			
					520	692		91.9			
240						318		86.2			
	270					350		86.7			
		300				402	878	88.0	1.27	0.058	14
			360			471		89.4			
				420		557		90.6			
					490	644		91.7			

GH450 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH450 M	1360	1991	1751
GH450 L	1420	2051	1811
GH450 P	1490	2121	1881
GH450 X	1570	2201	1961
GH450 Y	1660	2291	2051

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

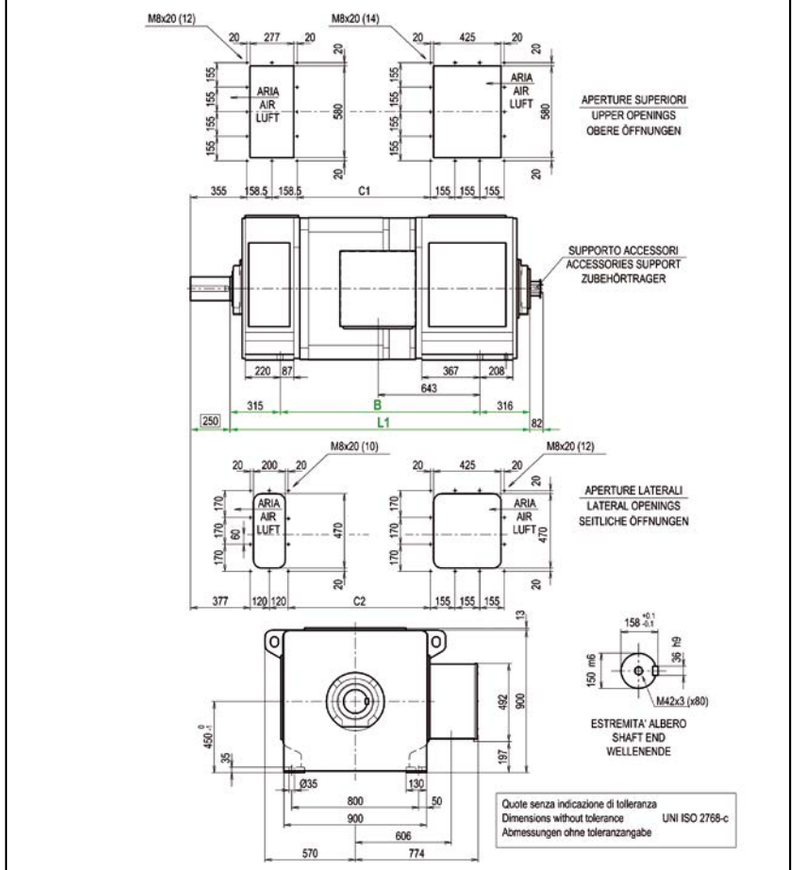
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

Nidec
All for dreams

GH450 PK

Rated speed (rpm) at armature voltage						Excitation power (W): 6500 Field time costant (s): 2.0 Motor mass (kg): 5660 (IC06) Moment of inertia (kg m²): 49.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
230						306		84.5			
	250					337		85.0			
		290				389	862	86.8	1.36	0.067	15
			340			457		88.3			
				400		541		89.7			
					460	626		90.8			
210						279		83.9			
	230					308		84.5			
		270				356	792	86.4	1.56	0.075	16
			320			418		88.0			
				380		496		89.5			
					430	574		90.6			

GH450 IM1001 - IP44 - IC37



Size	B	L1	C1	C2
GH450 M	1360	1991	941	996
GH450 L	1420	2051	1001	1056
GH450 P	1490	2121	1071	1126
GH450 X	1570	2201	1151	1206
GH450 Y	1660	2291	1241	1296

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

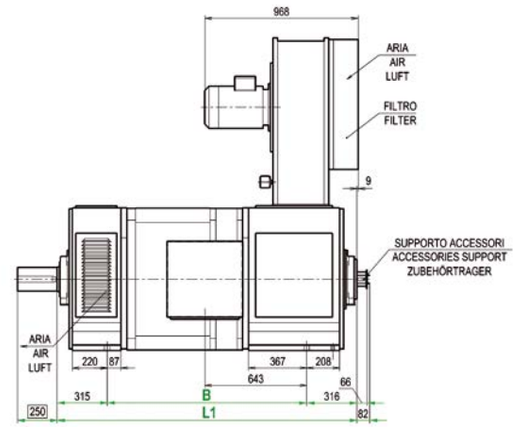
Nidec
All for dreams

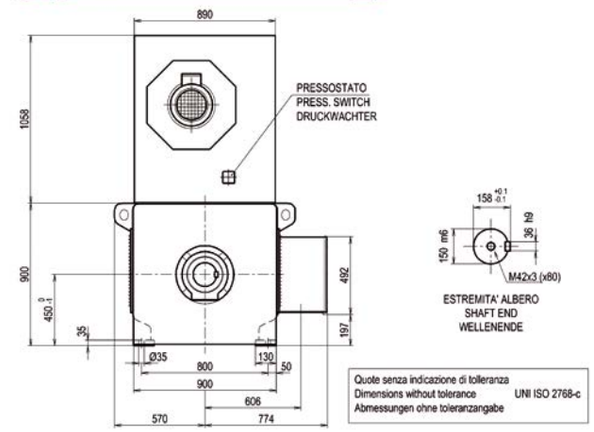
DC MOTORS

GH450 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 7000 Field time costant (s): 2.05 Motor mass (kg): 6060 (IC06) Moment of inertia (kg m²): 55.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
510						740	1920	91.6			
	560					816	1920	91.4	0.27	0.013	1
		640				928	1920	92.9			
			750			1072	1910	93.8			
480						709		91.2			
	530					783		92.0	0.30	0.014	2
		600				892	1850	92.7			
			700			1037		93.4			
420						646	1700	90.5			
	460					715	1700	91.4			
		530				815	1700	92.2	0.39	0.018	3
			620			950	1700	93.1			
				740		1100	1680	93.8			
400						610		90.2			
	440					676		91.3			
		500				769	1610	91.9	0.44	0.019	4
			590			895		92.7			
				690		1053		93.4			
380						596		89.9			
	420					659		90.8			
		480				752	1578	91.6	0.45	0.021	5
			560			876		92.5			
				660		1032		93.4			
350						551		89.9			
	390					610		90.8			
		450				695	1460	91.5	0.52	0.023	6
			520			810		92.5			
				610		952		93.2			
330						505		88.4			
	360					558		89.2			
		410				637	1360	90.1	0.60	0.030	7
			480			745		91.3			
				570		877		92.1			
					660	1012		93.0			
310						462		88.0			
	340					513		89.2			
		390				585	1250	90.0	0.68	0.032	8
			450			683		91.1			
				530		806		92.1			
					620	928		92.8			

GH450 IM1001 - IP23 - IC06





Size	B	L1
GH450 M	1360	1991
GH450 L	1420	2051
GH450 P	1490	2121
GH450 X	1570	2201
GH450 Y	1660	2291

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

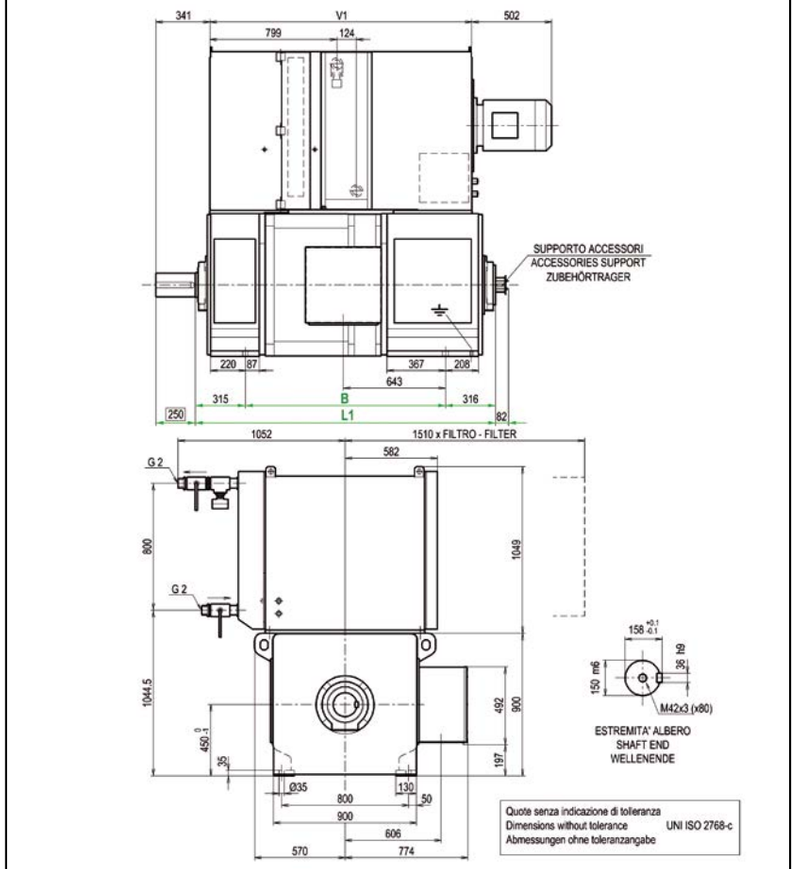
Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

GH450 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 7000 Field time costant (s): 2.05 Motor mass (kg): 6060 (IC06) Moment of inertia (kg m²): 55.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
290						428		87.8			
	320					473		88.6			
		360				541	1160	89.7	0.76	0.035	9
			430			632		90.8			
				500		746		91.9			
					580	860		92.7			
270						415		87.4			
	300					460		88.5			
		340				526	1130	89.5	0.85	0.038	10
			400			615		90.7			
				470		726		91.8			
					550	836		92.5			
260						396		87.3			
	290					440		88.6			
		330				502	1080	89.4	0.93	0.041	11
			380			587		90.6			
				450		693		91.7			
					520	798		92.4			
240						361		86.0			
	260					400		87.0			
		300				459	1000	88.3	1.08	0.050	12
			350			538		89.7			
				420		636		90.9			
					480	734		91.8			
220						335		85.3			
	250					370		86.0			
		280				426	935	87.6	1.20	0.055	13
			330			500		89.1			
				390		591		90.3			
					450	683		91.3			
210						308		84.7			
	230					342		85.9			
		270				383	866	87.3	1.35	0.062	14
			310			461		88.7			
				370		546		90.1			
					430	632		91.2			

GH450 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH450 M	1360	1991	1751
GH450 L	1420	2051	1811
GH450 P	1490	2121	1881
GH450 X	1570	2201	1961
GH450 Y	1660	2291	2051

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

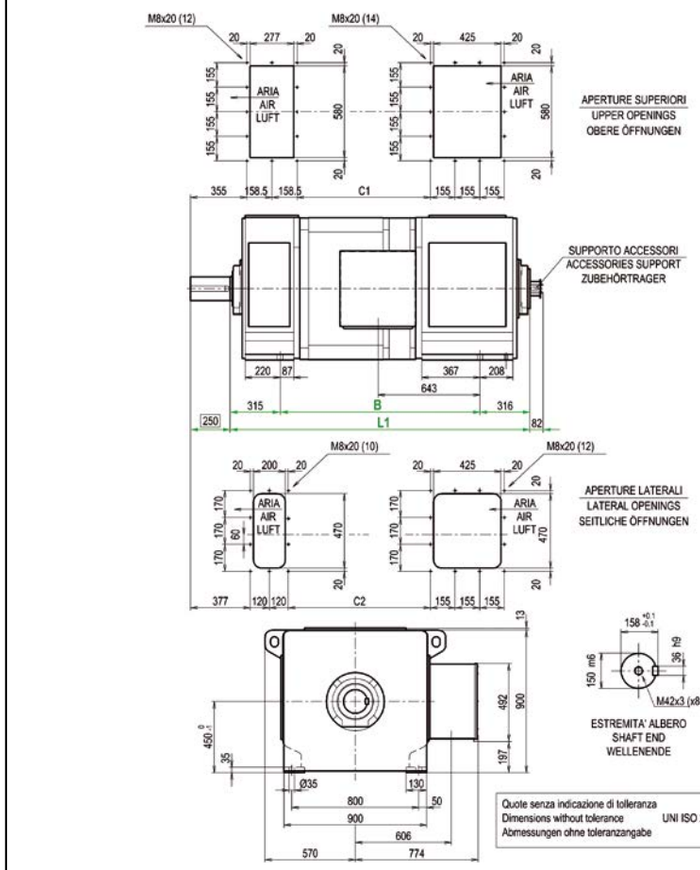
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

Nidec
All for dreams

GH450 XK

Rated speed (rpm) at armature voltage						Excitation power (W): 7000 Field time costant (s): 2.05 Motor mass (kg): 6060 (IC06) Moment of inertia (kg m²): 55.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
200						297		83.2			
	220					329		84.1			
		250				380	850	86.0	1.45	0.070	15
			300			447		87.6			
				350		530		89.1			
					410	614		90.3			
180						272		83.0			
	200					301		83.9			
		240				347	780	85.6	1.66	0.081	16
			280			408		87.2			
				330		485		88.8			
					380	562		90.1			

GH450 IM1001 - IP44 - IC37



Size	B	L1	C1	C2
GH450 M	1360	1991	941	996
GH450 L	1420	2051	1001	1056
GH450 P	1490	2121	1071	1126
GH450 X	1570	2201	1151	1206
GH450 Y	1660	2291	1241	1296

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

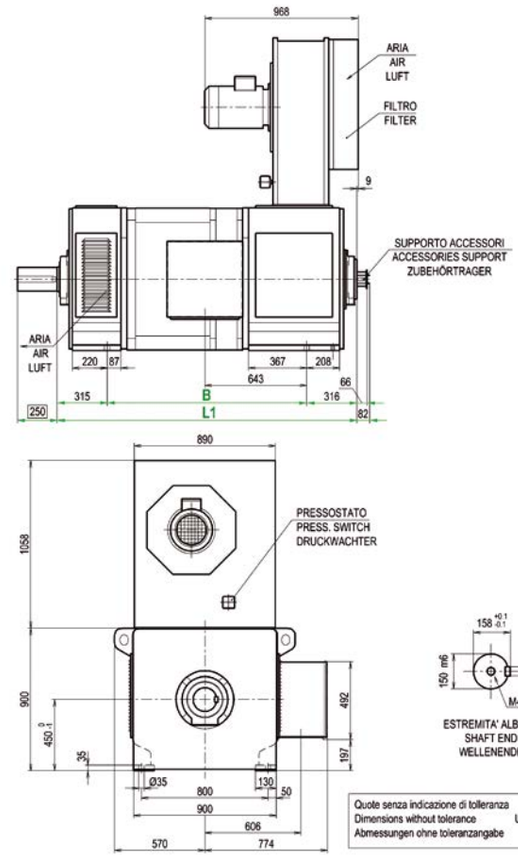
Nidec
All for dreams

DC MOTORS

GH450 YK

Rated speed (rpm) at armature voltage						Excitation power (W): 7500 Field time costant (s): 2.10 Motor mass (kg): 6510 (IC06) Moment of inertia (kg m²): 62.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
450						731		91.2			
	500					808		92.0	0.28	0.014	1
		570				920	1910	92.6			
			660			1069		93.3			
420						700		91.1			
	470					772		91.7	0.32	0.015	2
		530				879	1830	92.4			
			620			1023		93.2			
370						636		90.1			
	410					703		91.0			
		470				802	1680	91.8	0.42	0.0185	3
			550			935		92.8			
				640		1100		93.5			
350						608		89.9			
	390					672		90.8			
		450				766	1610	91.5	0.47	0.020	4
			520			890		92.3			
				610		1050		93.1			
340						586		88.4			
	380					648		90.3			
		430				740	1560	91.2	0.48	0.022	5
			500			862		92.0			
				590		1016		93.0			
310						534		88.3			
	350					595		89.8			
		400				681	1440	90.9	0.56	0.025	6
			460			794		91.9			
				540		936		92.9			
290						493		87.6			
	320					546		88.6			
		370				625	1340	89.7	0.64	0.032	7
			430			730		90.8			
				500		861		91.8			
					580	993		92.6			
270						456		87.6			
	300					505		88.5			
		340				577	1240	89.5	0.72	0.035	8
			400			675		90.7			
				470		797		91.8			
					540	918		92.5			

GH450 IM1001 - IP23 - IC06



Size	B	L1
GH450 M	1360	1991
GH450 L	1420	2051
GH450 P	1490	2121
GH450 X	1570	2201
GH450 Y	1660	2291

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

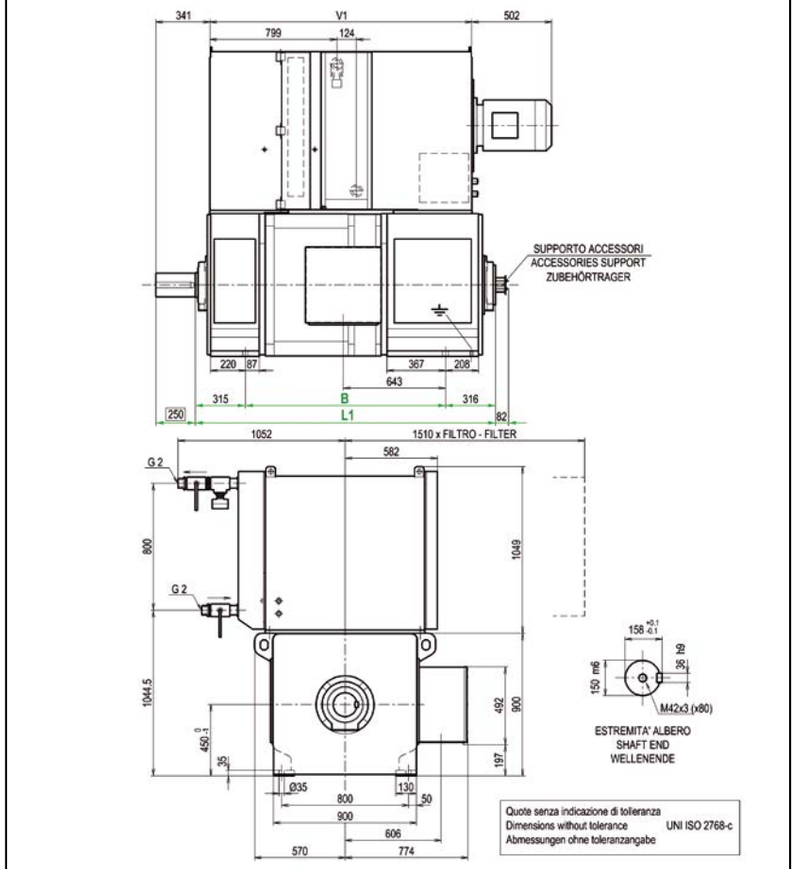
Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

GH450 YK

Rated speed (rpm) at armature voltage						Excitation power (W): 7500 Field time costant (s): 2.10 Motor mass (kg): 6510 (IC06) Moment of inertia (kg m²): 62.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
250						420		87.0			
	280					467		88.3			
		320				534	1150	89.3	0.81	0.039	9
			380			624		90.4			
				440		737		91.6			
					510	850		92.4			
240						408		86.7			
	270					453		87.9			
		300				517	1120	88.8	0.91	0.042	10
			360			605		90.0			
				420		715		91.2			
					480	826		92.2			
230						388		86.3			
	250					432		87.8			
		290				494	1070	88.8	0.99	0.045	11
			340			578		90.0			
				400		684		91.3			
					460	788		92.0			
210						354		85.1			
	230					394		86.5			
		270				451	990	87.6	1.15	0.054	12
			310			529		89.1			
				370		626		90.3			
					430	724		91.4			
200						326		84.4			
	220					360		85.1			
		250				416	920	87.0	1.28	0.062	13
			290			488		88.4			
				350		580		90.0			
					400	670		91.0			
180						304		84.2			
	200					336		84.9			
		230				388	860	86.8	1.44	0.068	14
			280			455		88.2			
				330		540		89.7			
					380	624		90.7			

GH450 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH450 M	1360	1991	1751
GH450 L	1420	2051	1811
GH450 P	1490	2121	1881
GH450 X	1570	2201	1961
GH450 Y	1660	2291	2051

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

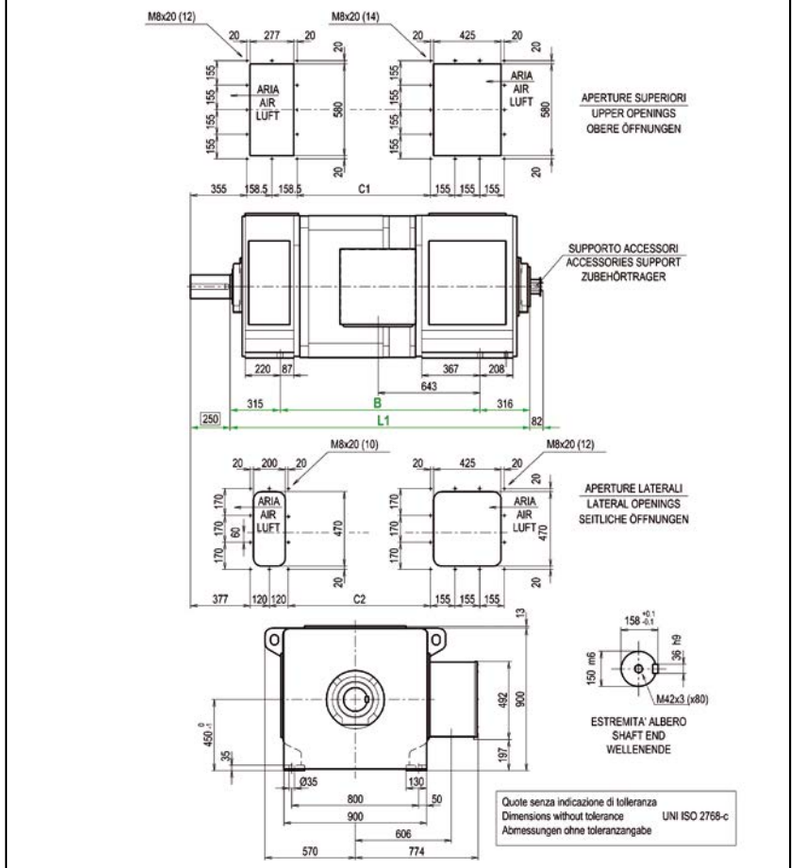
Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

Nidec
All for dreams

GH450 YK

Rated speed (rpm) at armature voltage						Excitation power (W): 7500 Field time costant (s): 2.10 Motor mass (kg): 6510 (IC06) Moment of inertia (kg m²): 62.0			Armature circuit		Winding code
420 V	460 V	520 V	600 V	700 V	800 V	RATED OUTPUT kW	ARMATURE CURRENT A	EFFICIENCY %	SATURATED INDUCTANCE mH	RESISTANCE AT 115 °C Ω	
	190					322		83.3			
		220				372	840	85.2			
			260			438		86.9	1.55	0.077	15
				310		521		88.6			
					360	603		89.7			
	180					295		83.3			
		210				339	770	84.7			
			240			400		86.6	1.77	0.088	16
				290		475		88.1			
					340	551		89.4			

GH450 IM1001 - IP44 - IC37



Size	B	L1	C1	C2
GH450 M	1360	1991	941	996
GH450 L	1420	2051	1001	1056
GH450 P	1490	2121	1071	1126
GH450 X	1570	2201	1151	1206
GH450 Y	1660	2291	1241	1296

TECHNICAL DATA

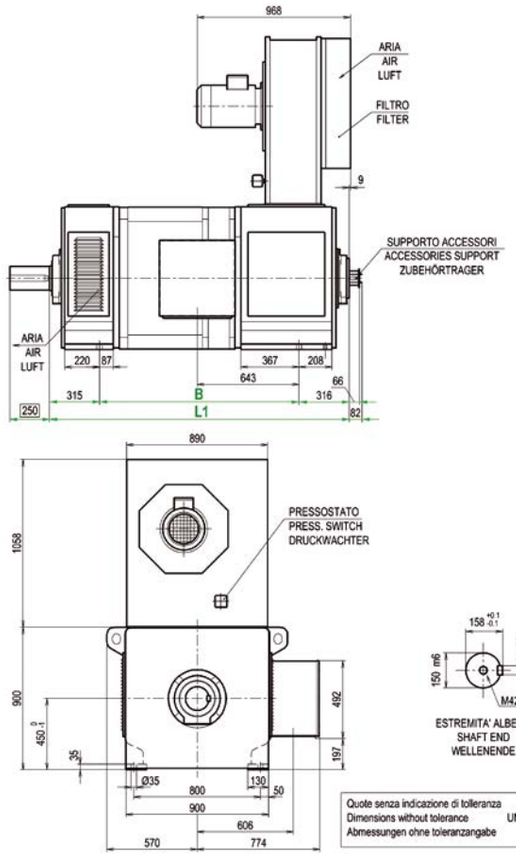
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

GH450 IM1001 - IP23 - IC06



Size	B	L1
GH450 M	1360	1991
GH450 L	1420	2051
GH450 P	1490	2121
GH450 X	1570	2201
GH450 Y	1660	2291

TECHNICAL DATA

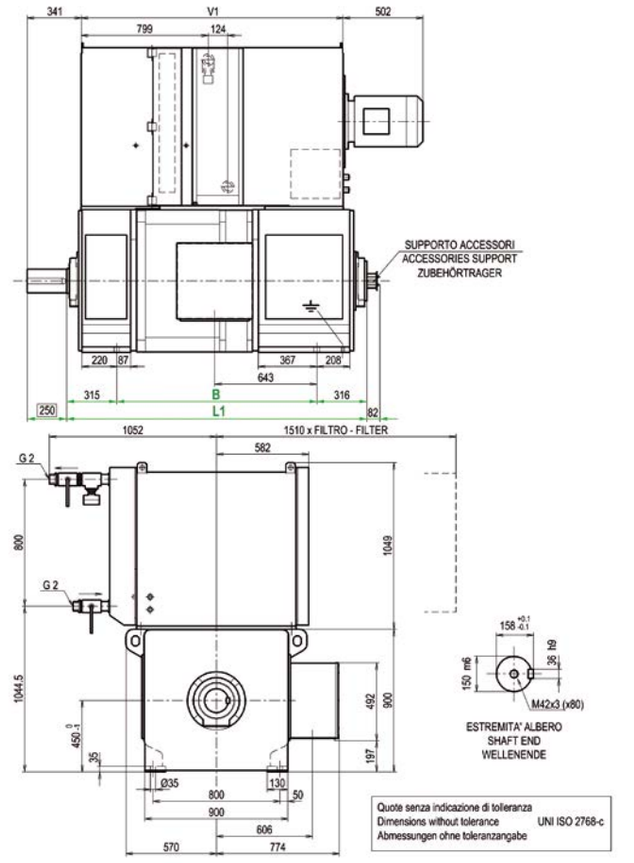
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

GH450 IM1001 - IP54 - IC86W



Size	B	L1	V1
GH450 M	1360	1991	1751
GH450 L	1420	2051	1811
GH450 P	1490	2121	1881
GH450 X	1570	2201	1961
GH450 Y	1660	2291	2051

TECHNICAL DATA

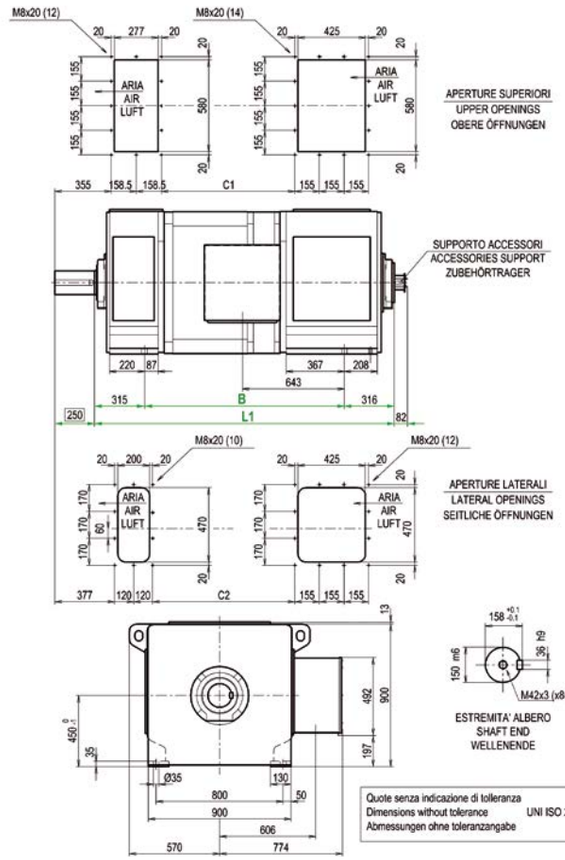
Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

GH450 IM1001 - IP44 - IC37



Size	B	L1	C1	C2
GH450 M	1360	1991	941	996
GH450 L	1420	2051	1001	1056
GH450 P	1490	2121	1071	1126
GH450 X	1570	2201	1151	1206
GH450 Y	1660	2291	1241	1296

TECHNICAL DATA

Size	Motor mass (kg)	Moment of inertia (kg m²)	Excitation power (W)	Field time constant (s)	Max. mech. speed (rpm)	Ventilation data	
						Air flow (m³/min)	Pressure drop (Pa)
GH450 M	4900	38.0	5300	1.50	1800	220	1250
GH450 L	5200	43.0	6000	1.95	1800	220	1250
GH450 P	5500	49.0	6500	2.00	1800	220	1250
GH450 X	5900	55.0	7000	2.05	1700	220	1250
GH450 Y	6350	62.0	7500	2.10	1600	220	1250

Bearings	Drive end		Opposite drive end
	Coupling	Pulley	
B3 – B5	NU232ECM C3	NU232ECM C3	6232 MC3
V1 – V3	6232 C3	NU232ECM C3	7232 BCB

Electrical blower (IC06)	Weight	Blower motor power
	160 kg	9.2 kW (50 Hz) - 11.0 kW (60 Hz)

Air-To-Water Heat Exchanger (IC 86W)	Weight	Heat exchanger motor power
	650 kg	15.0 kW (50 / 60 Hz)

GO TO MENU