



Version 2025

Servo System



NINGBO HAITIAN DRIVE SYSTEMS CO.,LTD.

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2025V12



PROFILE

About Haitian Drive

Ningbo Haitian Drive Co., Ltd. was founded in 2005. As one of the six pillar industries of Haitian Group, it makes full use of the group's platform advantages and deeply engages in three core fields: industrial automation, non-road mobile machinery, and industrial hydraulics. Its product portfolio is rich and complete, covering core components such as servo motors, servo drives, high-performance controllers, hydraulic motors, hydraulic pumps, hydraulic valves, hydraulic systems, servo manipulators, magnetic templates, and linear guide pairs.

Haitian Drive accurately grasps the intelligent upgrading trend of the manufacturing industry and the electrification demand of non-road mobile machinery. Leveraging the integrated advantages of a comprehensive product range and independent R&D and manufacturing, it provides partners with efficient, energy-saving, and precise core components, as well as mechatronics integration solutions, and continuously helps the equipment manufacturing industry move toward green and digital development.

Haitian Drive: Drive Your Excellence

Drive Your Products:

Enhance the efficiency and performance of users' products through efficient and energy-saving servo control systems, stable and precise functional components, and flexible high-power-density hydraulic motors.

Drive Your Equipment:

As a professional electric drive system supplier, we provide intelligent and electrified solutions for non-road mobile machinery, helping products develop in a green, efficient, and intelligent manner, and supporting the realization of the country's carbon peak and carbon neutrality goals.

Drive Your Production:

As a professional manufacturer of servo manipulators and electrically controlled permanent magnet products, we provide automation solutions for mechanical equipment peripherals and build stable, efficient, and flexible intelligent production lines.



BRAND

Domestic Professional Servo System Supplier

Haitian Drive is committed to becoming a professional high-end servo system manufacturer, providing customers with efficient, stable, and precise energy-saving power products. Currently, the annual production capacity of the company's medium and high-power servo systems exceeds 200,000 sets, and the total supply has exceeded 1.5 million sets to date. Its technical level and manufacturing strength lead domestically.

Technical and R&D Strength

The servo drives produced by the company cover a power range of 5.5kW-355kW. The rated power of AC permanent magnet servo motors covers 0.4kW-500kW, the rated torque covers 2.2Nm-500,000Nm, and the rated speed covers 10rpm-20,000rpm. Currently, the full range of servo systems has been widely used in fields such as injection molding, die casting, aluminum profile extrusion, hydraulic pressure, metallurgy, and rubber.

Production Equipment



Automatic Production Line for Imported Stators



Rotor Module Automatic Production Line

The main plant of Haitian Drive servo products was put into operation in July 2015. It covers an area of 21,000 square meters and adopts the currently leading manufacturing technology and equipment in China. The annual output of motors reaches 180,000 units, the annual output of drivers reaches 90,000 units, and the number of employees exceeds 1,000.



Robot Automatic Spray Painting Line



Epoxy Resin Vacuum Casting Automatic Production Line



Vacuum Impregnation Line



Robot Housing Hot Fitting Assembly Line

Introduction to Haitian Drive Servo System

Haitian Drive Systems, a domestic manufacturer with independent intellectual property rights, successfully developed China's first hydraulic servo system in 2004, which was soon applied in the injection molding machine industry. The company has consistently provided top-tier servo system solutions across various fields, including electro-hydraulic servo, electric servo, and precision motion control. With a diverse and flexible portfolio of components such as servo motors, drivers, and oil pumps, Haitian Drive caters to diverse needs ranging from cost-effective solutions to high-performance models, cost-efficient options, and customized professional systems.

Servo System Features

1 【 Specifications are complete 】

The fully self-developed servo system covers a full range of product specifications and models with natural cooling, air cooling and liquid cooling, and covers the power range from 0.4kw to 355kw, which can meet the customer needs under different working conditions.

2 【 Specialization 】

We can provide customers with customized full range of high performance servo systems with label, embedded and permanent magnet reluctance. It has been widely used in traditional hydraulic injection molding machine, punch press, die casting machine, aluminum profile extruder, hydraulic press and other industries.

3 【 Stable and reliable 】

Intelligent factories can meet the market supply of more than 120,000 sets of medium and large servo systems, and more than 20 years of industry service experience guarantees the stable and reliable quality of Haitian servo products.

Servo System



4 【 Flexible selection 】

Standard CAN, with optional **EtherCAT**, PROFINET, MODBUS TCP/RTU/ASCII and other mainstream industrial communication protocols.

5 【 Networking 】

The servo system provided by our company can support remote monitoring, remote debugging and remote control and other comprehensive remote service functions.

6 【 Outstanding performance 】

Optimized current loop and speed loop control characteristics to support higher performance requirements (pressure accuracy, position accuracy, etc.)

Industry Application Examples

Electro-hydraulic



Injection Molding Machine

The servo power system dedicated to injection molding machines has a power coverage range of 5.5-160kW and supports multiple system pressure specifications such as 14MPa, 17.5MPa, and 21MPa. The significant improvement in equipment system pressure (up to over 20MPa), abundant bus interfaces, and optimized control scheme enable the entire system to achieve faster speed, higher precision, and more reliable and stable performance. The system can meet the performance requirements of different types of injection molding machines, including high-speed machines (injection acceleration >0.5g; acceleration time from 0-2000rpm under no-load condition is 25ms; acceleration time from 450-2000rpm under load condition can reach 50ms), all-electric injection molding machines, and hybrid electric-hydraulic ones (full-series electric preplasticization servo power systems).



Aluminum Extruder

For the aluminum extruder industry, a hydraulic servo power system with high system pressure, high efficiency, low cost, high standardization, high pollution resistance, low noise, and high reliability is launched. It is composed of high-pressure internal gear pumps, high-performance embedded servo motors, and a full range of liquid-cooled / air-cooled high-power servo drives. This system enables the extruder equipment to operate more efficiently (with production and efficiency increased by 5%-15%), be more energy-saving (with an energy-saving rate of up to over 30%), and significantly reduce equipment operation noise and aluminum scrap rate, etc. Haitian Drive's highly standardized configuration scheme can greatly shorten the delivery cycle and improve the after-sales service response speed, providing strong support for equipment manufacturers and users. It is currently the best system solution in China.



Die Casting Machine

For the die casting machine industry with relatively harsh working conditions and relatively high ambient temperature, we can provide liquid-cooled embedded servo motors dedicated to die casting machines with frame sizes ranging from 130mm to 445mm (10-3000N·m). The products cover liquid-cooled servo motors with different structural forms such as flat key, spline, single output shaft and double output shaft. The embedded structure greatly improves the motor's field-weakening overspeed performance, demagnetization resistance and overload characteristics (the short-term overload can reach up to 3 times below 80% of the rated speed), ensuring the die casting machine has advantages of high efficiency, high precision, high response and high reliability during operation.



Hydraulic Press

For the hydraulic press industry, a complete system-level solution can be provided, including a customizable human-machine interface (HMI), a special motion controller for hydraulic presses and expansion modules, high-performance feedback components for hydraulic servo power systems, and a remote Internet of Things (IoT) system. It can achieve a pressure control accuracy of 1 bar and a position control accuracy of 0.05 mm on different types of hydraulic press equipment, and supports multiple pressing modes (such as thin plate stamping, drawing, reverse drawing, and precision stamping). Through Haitian Drive's IoT system, remote services such as remote equipment monitoring, remote data collection and analysis, and remote maintenance can be realized simultaneously. Currently, it serves many large domestic hydraulic press equipment manufacturers and users, and has been unanimously recognized in the industry.

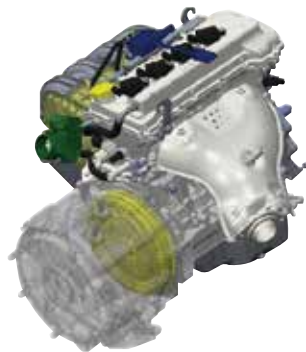
Servo Press



Servo Press

For the press industry, a complete system-level solution can be provided, including a customizable human-machine interface (HMI), a special motion controller for presses and expansion modules, a high-performance electric drive servo power system, feedback components, and a remote Internet of Things (IoT) system. Compared with the power system solution of traditional ordinary presses, Haitian Drive's system can significantly reduce equipment operation impact, lower equipment operation noise, improve equipment production efficiency, and reduce energy consumption. Through various forming curves (blanking, pressure holding, vibration, embossing, etc.) planned by Haitian Drive's servo press system, it greatly improves production efficiency while enhancing the quality of finished products.

New energy vehicle motor



New Energy Vehicle Motor

For the extended-range new energy vehicle industry, an extended-range starter-generator is launched. It perfectly matches the engine in terms of electrical and mechanical aspects, featuring high efficiency and lightweight design. With a peak efficiency of over 96% and a high-efficiency zone accounting for more than 80%, it has first-class continuous output power density and peak power density in the industry. The product is supported by invention patent technology and has a process structure design suitable for automated production. Through professional and systematic product development verification and quality control, it has excellent product quality and service life. It provides an efficient, energy-saving, high-comfort, compact and aesthetically pleasing starter-generator system for matching vehicle models.

Non-road mobile machinery



Permanent Magnet Power System (Permanent Magnet Motor + Driver + Vehicle Controller)

We can provide system solutions for the off-road mobile machinery industry and carry out in-depth product customization and application scheme output according to customers' functional requirements. Our company has a professional design and development team for permanent magnet motors and electronic control, as well as complete testing equipment and testing sites, which can perform in-depth matching of permanent magnet motors and electronic control to ensure that the permanent magnet power system features high efficiency and energy saving. At the same time, according to the characteristics of various off-road mobile machinery products, we have equipped senior application engineers to provide unique product consultation and product application services. Currently, our permanent magnet power system has been applied to products such as stackers, pallet trucks, counterbalance forklifts, and loaders, and has been recognized by many domestic main engine manufacturers in the off-road mobile machinery industry.

Servo Motor

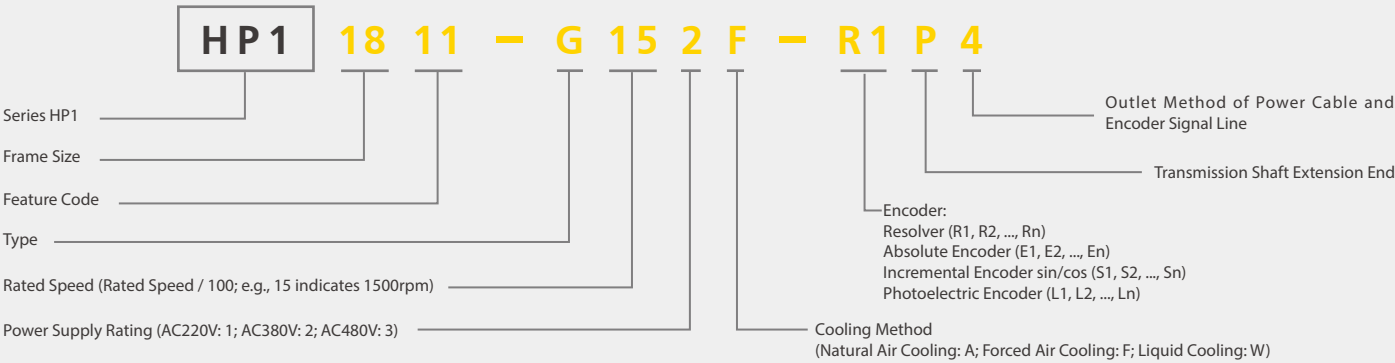


Product Features

Haitian Drive's servo motors have completely independent intellectual property rights, featuring high efficiency, high response, and high precision. The products are rich and diverse, capable of meeting different needs of various industries such as power output, precise positioning, fast response, and energy saving. Customized special motors can be made according to customer requirements. They can be widely applied in servo motion control, air compressors, new energy, and other scenarios. The product features are as follows:

- > Rich and diverse products, with frame sizes covering 13, 18, 20, 25, 29, 30, and 45, including natural cooling, air cooling, and liquid cooling;
- > Adopt imported bearings, high-performance silicon steel sheets, high-performance magnetic steel, high-temperature-resistant enamelled wire, and high-precision feedback components;
- > Patented technology of embedded structure reduces rotor eddy current and temperature, improves the high-speed reliability of the rotor, and has strong field-weakening overspeed and demagnetization resistance capabilities;
- > Small cogging torque and torque ripple, with high control precision;
- > Short-term overload of 2.3~3.0 times below 80% of the rated speed, and short-term overload of 1.6~2.0 times at the rated speed;
- > Can operate at an overspeed of more than 2 times the rated speed;
- > High efficiency and a wide high-efficiency zone;
- > Large torque-inertia ratio, fast response speed, and strong rigidity (no-load acceleration time from 0~2000rpm is 10~20ms);
- > Patented technology of integrated air-cooled casing, with high heat dissipation efficiency and a compact and aesthetically pleasing structure;
- > Lean production and comprehensive quality control ensure excellent product quality and long service life.

Model Ordering Code



Technical Patameter and Dimension List

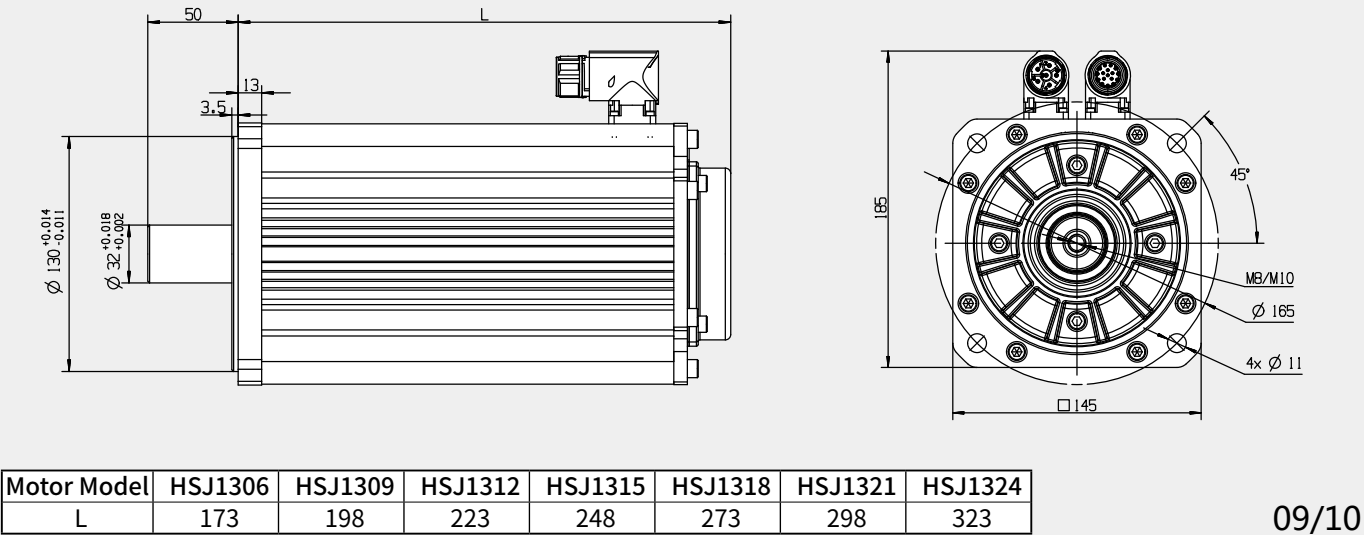
HSJ13

Model	Rated Torque (Nm)	Rated Current (A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Back EMK (V)	Voltage Class (V)	Rated Frequency f(Hz)	Inertia J(kg.m ² .10 ⁻³)	Mass (kg)
HSJ1306152X	10.8	3.3	3.27	1.7	1500	352	380	125	1.55	10.07
HSJ1309152X	16.2	4.9	3.31	2.5	1500	358	380	125	2.23	12.62
HSJ1312152X	21.6	6.5	3.32	3.4	1500	355	380	125	2.92	15.17
HSJ1315152X	27	8.3	3.25	4.2	1500	350	380	125	3.63	17.72
HSJ1318152X	32.4	9.8	3.31	5.1	1500	358	380	125	4.32	20.27
HSJ1321152X	37.8	11.4	3.32	5.9	1500	358	380	125	5.05	22.82
HSJ1324152X	43.2	12.6	3.43	6.8	1500	354	380	125	5.72	25.37
HSJ1306202X	10.8	4.2	2.57	2.3	2000	354	380	166.7	1.55	10.07
HSJ1309202X	16.2	6.5	2.49	3.4	2000	354	380	166.7	2.23	12.62
HSJ1312202X	21.6	8.4	2.57	4.5	2000	354	380	166.7	2.92	15.17
HSJ1315202X	27	11.0	2.45	5.7	2000	340	380	166.7	3.63	17.72
HSJ1318202X	32.4	12.6	2.57	6.8	2000	354	380	166.7	4.32	20.27
HSJ1321202X	37.8	15.0	2.52	7.9	2000	365	380	166.7	5.05	22.82
HSJ1324202X	43.2	17.2	2.51	9.0	2000	363	380	166.7	5.72	25.37
HSJ1306302X	8	4.7	1.70	2.5	3000	355	380	250	1.55	10.07
HSJ1309302X	12	7	1.71	3.8	3000	358	380	250	2.23	12.62
HSJ1312302X	16	9.4	1.70	5.0	3000	355	380	250	2.92	15.17
HSJ1315302X	20	11.8	1.69	6.3	3000	341	380	250	3.63	17.72
HSJ1318302X	24	14	1.71	7.5	3000	348	380	250	4.32	20.27
HSJ1321302X	28	16.4	1.71	8.8	3000	358	380	250	5.05	22.82
HSJ1324302X	32	18.8	1.70	10.1	3000	354	380	250	5.72	25.37

Operating Conditions: Drive switching frequency ≥ 4kHz

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 8kHz



Technical Patameter and Dimension List

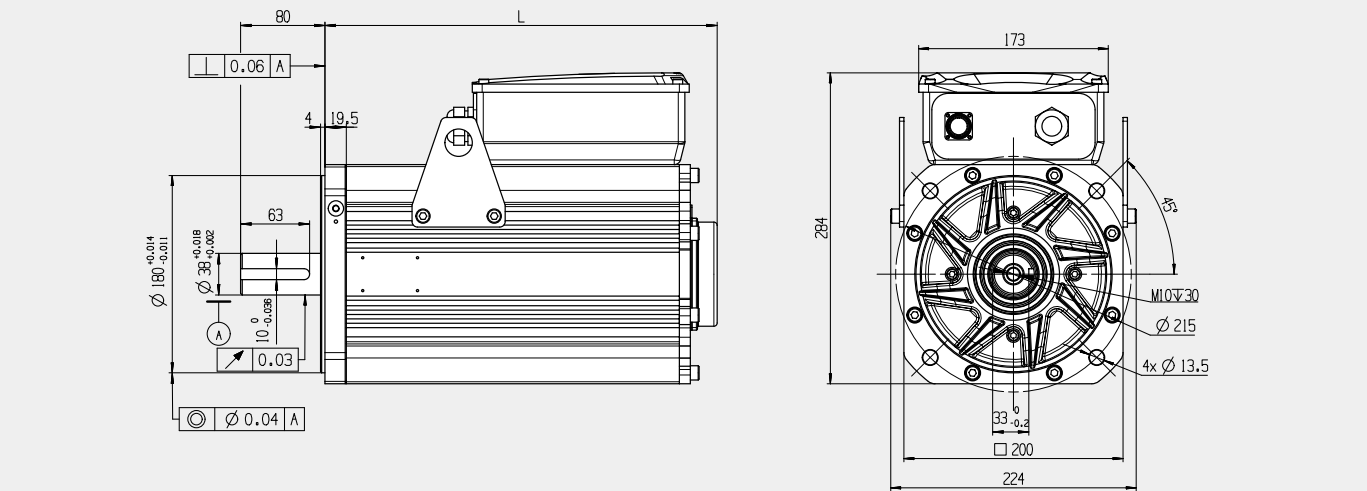
HP118/Z-A

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m².10 ⁻³)	Mass (kg)
HP11802-Z152A- □□□□	24	7.1	3.38	3.8	1500	100	380	323	7.8	28
HP11803-Z152A- □□□□	36	10.7	3.38	5.7	1500	100	380	323	11.1	33
HP11804-Z152A- □□□□	48	14.2	3.37	7.5	1500	100	380	323	14.1	38
HP11805-Z152A- □□□□	60	17.6	3.40	9.4	1500	100	380	327	17.2	43
HP11806-Z152A- □□□□	72	21.4	3.37	11.3	1500	100	380	323	20.4	48
HP11807-Z152A- □□□□	84	25.0	3.36	13.2	1500	100	380	323	23.6	53
HP11808-Z152A- □□□□	96	28.5	3.36	15.1	1500	100	380	323	27	58
HP11809-Z152A- □□□□	108	31.8	3.40	17.0	1500	100	380	329	30.1	63
HP11810-Z152A- □□□□	120	35.7	3.36	18.8	1500	100	380	327	33.2	68
HP11802-Q182A- □□□□	24	8.1	2.96	4.5	1800	120	380	333	7.8	28
HP11803-Q182A- □□□□	36	12.2	2.96	6.8	1800	120	380	333	11.1	33
HP11804-Q182A- □□□□	48	16.2	2.96	9.0	1800	120	380	333	14.1	38
HP11805-Z182A- □□□□	60	21.0	2.85	11.3	1800	120	380	323	17.2	43
HP11806-Q182A- □□□□	72	24.3	2.96	13.6	1800	120	380	333	20.4	48
HP11807-Z182A- □□□□	84	29.6	2.84	15.8	1800	120	380	323	23.6	53
HP11808-Q182A- □□□□	96	33	2.93	18.1	1800	120	380	333	27	58
HP11809-Q182A- □□□□	108	37.1	2.91	20.4	1800	120	380	333	30.1	63
HP11810-Z182A- □□□□	120	42	2.83	22.6	1800	120	380	323	33.2	68
HP11802-Z202A- □□□□	24	9.2	2.61	5.0	2000	133.3	380	329	7.8	28
HP11803-Z202A- □□□□	36	14.0	2.57	7.5	2000	133.3	380	323	11.1	33
HP11804-Z202A- □□□□	48	18.5	2.60	10.1	2000	133.3	380	329	14.1	38
HP11805-Q202A- □□□□	60	22.9	2.62	12.6	2000	133.3	380	334	17.2	43
HP11806-Z202A- □□□□	72	28.1	2.56	15.1	2000	133.3	380	323	20.4	48
HP11807-Z202A- □□□□	84	32.8	2.56	17.6	2000	133.3	380	323	23.6	53
HP11808-Z202A- □□□□	96	37.3	2.57	20.1	2000	133.3	380	329	27	58
HP11809-Z202A- □□□□	108	42.5	2.54	22.6	2000	133.3	380	323	30.1	63
HP11810-Q202A- □□□□	120	46.5	2.58	25.1	2000	133.3	380	334	33.2	68

Operating Conditions: Drive switching frequency ≥ 4kHz

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 8kHz



Motor Model	HP11802	HP11803	HP11804	HP11805	HP11806	HP11807	HP11808	HP11809	HP11810
L	250	286	302	331	358	394	430	448	478

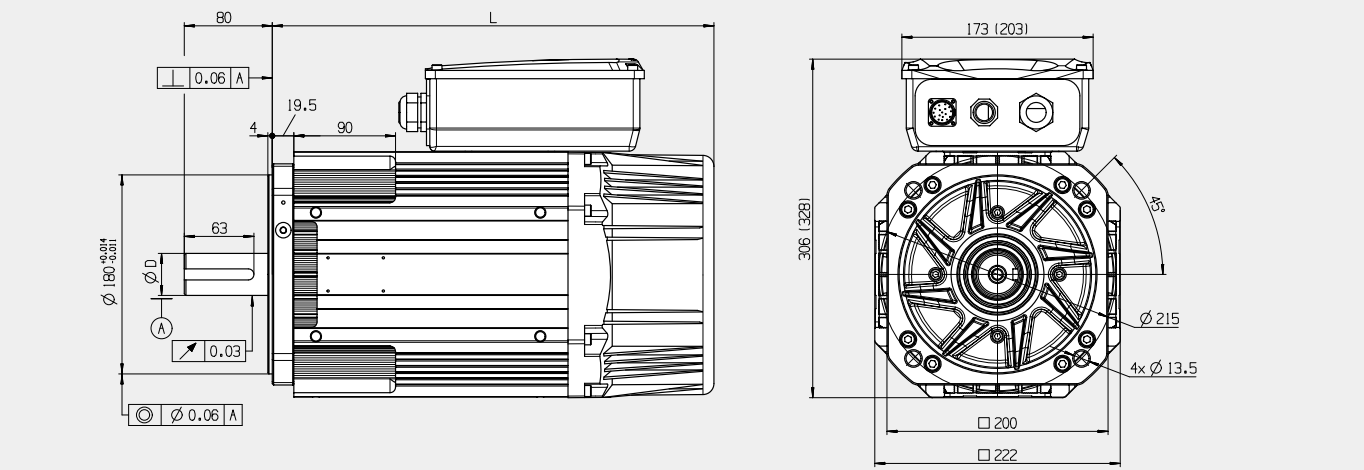
HP118/Z-F

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m².10 ⁻³)	Mass (kg)
HP11802-Z152F- □□□□	40	11.7	3.42	6.3	1500	100	380	323	7.8	31
HP11803-Z152F- □□□□	60	17.6	3.41	9.4	1500	100	380	323	11.1	36
HP11804-Z152F- □□□□	80	23.5	3.40	12.6	1500	100	380	323	14.1	42
HP11805-Z152F- □□□□	100	29.1	3.44	15.7	1500	100	380	327	17.2	48
HP11806-Z152F- □□□□	120	35.3	3.40	18.8	1500	100	380	323	20.4	54
HP11807-Z152F- □□□□	140	41.2	3.40	22.0	1500	100	380	323	23.6	60
HP11808-Z152F- □□□□	160	47.1	3.40	25.1	1500	100	380	323	27	66
HP11809-Z152F- □□□□	180	52.4	3.44	28.3	1500	100	380	329	30.1	72
HP11810-Z152F- □□□□	200	58.9	3.40	31.4	1500	100	380	327	33.2	78
HP11811-Q152F- □□□□	220	62.7	3.51	34.6	1500	100	380	339	36.4	84
HP11812-Z152F- □□□□	240	70.6	3.40	37.7	1500	100	380	323	39.5	90
HP11802-Q182F- □□□□	40	13.4	2.99	7.5	1800	120	380	333	7.8	31
HP11803-Q182F- □□□□	60	20.1	2.99	11.3	1800	120	380	333	11.1	36
HP11804-Q182F- □□□□	80	26.8	2.99	15.1	1800	120	380	333	14.1	42
HP11805-Z182F- □□□□	100	34.7	2.88	18.8	1800	120	380	323	17.2	48
HP11806-Q182F- □□□□	120	40.1	2.99	22.6	1800	120	380	333	20.4	54
HP11807-Z182F- □□□□	140	48.8	2.87	26.4	1800	120	380	323	23.6	60
HP11808-Q182F- □□□□	160	54	2.96	30.2	1800	120	380	333	27	66
HP11809-Q182F- □□□□	180	61.2	2.94	33.9	1800	120	380	333	30.1	72
HP11810-Z182F- □□□□	200	70	2.86	37.7	1800	120	380	323	33.2	78
HP11811-Z182F- □□□□	220	75.2	2.93	41.5	1800	120	380	330	36.4	84
HP11812-Q182F- □□□□	240	81.4	2.95	45.2	1800	120	380	333	39.5	90
HP11802-Z202F- □□□□	40	15.2	2.63	8.4	2000	133.3	380	329	7.8	31
HP11803-Z202F- □□□□	60	23.1	2.60	12.6	2000	133.3	380	323	11.1	36
HP11804-Z202F- □□□□	80	30.5	2.62	16.8	2000	133.3	380	329	14.1	42
HP11805-Q202F- □□□□	100	37.8	2.65	20.9	2000	133.3	380	334	17.2	48
HP11806-Z202F- □□□□	120	46.4	2.59	25.1	2000	133.3	380	323	20.4	54
HP11807-Z202F- □□□□	140	54.2	2.58	29.3	2000	133.3	380	323	23.6	60
HP11808-Z202F- □□□□	160	61.6	2.60	33.5	2000	133.3	380	329	27	66
HP11809-Z202F- □□□□	180	70.1	2.57	37.7	2000	133.3	380	323	30.1	72
HP11810-Q202F- □□□□	200	76.8	2.60	41.9	2000	133.3	380	334	33.2	78
HP11811-Q202F- □□□□	220	84.1	2.62	46.1	2000	133.3	380	339	36.4	84
HP11812-Q202F- □□□□	240	91.6	2.62	50.3	2000	133.3	380	339	39.5	90

Operating Conditions: Drive switching frequency ≥ 4kHz

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz



Motor Model	HP11802	HP11803	HP11804	HP11805	HP11806	HP11807	HP11808	HP11809	HP11810	HP11811	HP11812
L	348	384	400	429	456	492	528	546	576	606	636
D	38k6	38k6	38k6	38k6	38k6	38k6	38k6	38k6	38k6	42k6	42k6
Shaft Key Size	C10×63	C10×63	C10×63	C10×63	C10×63	C10×63	C10×63	C10×63	C10×63	C12×63	C12×63

Technical Patameter and Dimension List

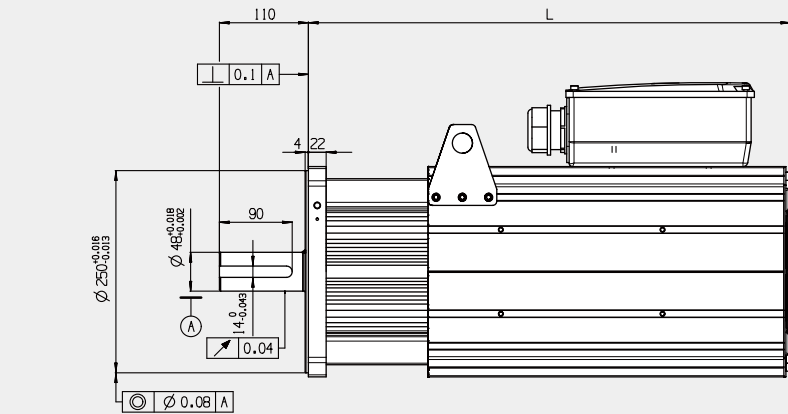
HP120-F

Model	Rated Torque Tn(Nm)	Rated Turrent In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m ² .10 ⁻³)	Mass (kg)
HP12008-H152F- □□□□	100	31	3.3	15.7	1500	100	380	307	15	70
HP12012-H152F- □□□□	150	46	3.3	23.6	1500	100	380	307	20.6	83
HP12016-H152F- □□□□	200	62	3.3	31.4	1500	100	380	307	26.2	96
HP12020-H152F- □□□□	250	74	3.4	39.3	1500	100	380	320	31.8	109
HP12024-H152F- □□□□	300	92	3.3	47	1500	100	380	307	37.4	122
HP12028-H152F- □□□□	350	105	3.3	55	1500	100	380	314	43	135
HP12032-H152F- □□□□	400	123	3.3	62.8	1500	100	380	307	48.6	148
HP12036-H152F- □□□□	450	134	3.4	70.7	1500	100	380	317	54.2	161
HP12040-H152F- □□□□	500	148	3.4	78.5	1500	100	380	320	59.8	174
HP12008-H182F- □□□□	100	37	2.7	18.8	1800	120	380	307	15	70
HP12012-H182F- □□□□	150	53	2.8	28.3	1800	120	380	323	20.6	83
HP12016-H182F- □□□□	200	74	2.7	37.7	1800	120	380	307	26.2	96
HP12020-H182F- □□□□	250	92	2.7	47	1800	120	380	307	31.8	1 09
HP12024-H182F- □□□□	300	105	2.8	56.5	1800	120	380	323	37.4	122
HP12028-H182F- □□□□	350	123	2.8	66	1800	120	380	323	43	135
HP12032-H182F- □□□□	400	148	2.7	75.4	1800	120	380	307	48.6	1 48
HP12036-H182F- □□□□	450	164	2.7	84.8	1800	120	380	311	54.2	161
HP12040-H182F- □□□□	500	185	2.7	94.2	1800	120	380	307	59.8	174
HP12008-H202F- □□□□	100	41	2.4	21	2000	133.3	380	307	15	70
HP12012-H202F- □□□□	150	62	2.4	31.4	2000	133.3	380	307	20.6	83
HP12016-H202F- □□□□	200	82	2.4	42	2000	133.3	380	307	26.2	96
HP12020-H202F- □□□□	250	98	2.5	52.4	2000	133.3	380	320	31.8	109
HP12024-H202F- □□□□	300	123	2.4	62.8	2000	133.3	380	307	37.4	122
HP12028-H202F- □□□□	350	134	2.6	73.3	2000	133.3	380	329	43	135
HP12032-H202F- □□□□	400	164	2.4	83.8	2000	133.3	380	307	48.6	148
HP12036-H202F- □□□□	450	185	2.4	94.2	2000	133.3	380	307	54.2	161
HP12040-N202F- □□□□	500	186	2.7	104.7	2000	133.3	380	341	59.8	174

Operating Conditions: Drive switching frequency ≥ 4kHz

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz



Motor Model	HP12008	HP12012	HP12016	HP12020	HP12024	HP12028	HP12032	HP12036	HP12040
L	446	496	546	596	646	696	746	796	846

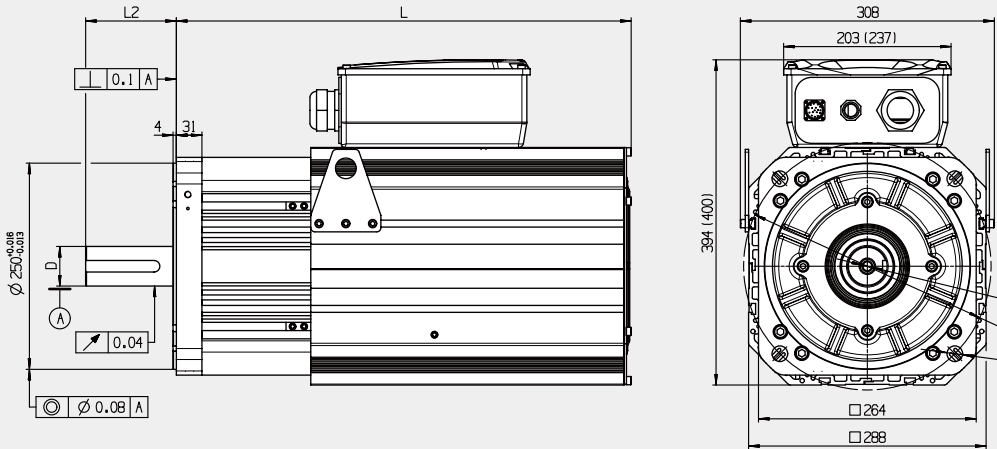
HP125-F

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m ² .10 ⁻³)	Mass (kg)
HP12513-H152F- □□□□	171	49	3.53	26.9	1500	100	380	313	34.3	91
HP12517-H152F- □□□□	228	65	3.51	35.8	1500	100	380	325	44.1	104
HP12521-H152F- □□□□	285	81	3.52	44.8	1500	100	380	319	53.7	115
HP12525-H152F- □□□□	342	96	3.56	53.7	1500	100	380	330	63.3	126
HP12529-H152F- □□□□	399	111	3.58	62.7	1500	100	380	325	73.1	137
HP12533-H152F- □□□□	456	127	3.58	71.6	1500	100	380	325	82.7	151
HP12538-H152F- □□□□	513	146	3.51	80.6	1500	100	380	313	93.4	170
HP12542-H152F- □□□□	570	160	3.56	89.5	1500	100	380	319	101.9	188
HP12546-H152F- □□□□	627	176	3.56	98.5	1500	100	380	319	111.3	206
HP12550-H152F- □□□□	684	196	3.50	107.4	1500	100	380	313	120.7	215
HP12555-N152F- □□□□	741	201	3.69	116.4	1500	100	380	339	130.3	225
HP12513-N182F- □□□□	168	55	3.05	31.7	1800	120	380	334	34.3	91
HP12517-N182F- □□□□	224	74	3.03	42.2	1800	120	380	334	44.1	104
HP12521-H182F- □□□□	280	92	3.03	52.8	1800	120	380	330	53.7	115
HP12525-H182F- □□□□	336	115	2.92	63.3	1800	120	380	313	63.3	126
HP12529-H182F- □□□□	392	134	2.93	73.9	1800	120	380	317	73.1	137
HP12533-N182F- □□□□	448	147	3.05	84.4	1800	120	380	334	82.7	151
HP12538-H182F- □□□□	504	172	2.93	95.0	1800	120	380	313	93.4	170
HP12542-H182F- □□□□	560	192	2.91	105.5	1800	120	380	313	101.9	188
HP12546-N182F- □□□□	616	198	3.11	116.1	1800	120	380	345	111.3	206
HP12550-N182F- □□□□	672	218	3.08	126.7	1800	120	380	334	120.7	215
HP12555-H182F- □□□□	728	246	2.96	137.2	1800	120	380	316	130.3	225
HP12513-H202F- □□□□	166.5	62	2.69	34.9	2000	133.3	380	325	34.3	91
HP12517-N202F- □□□□	222	80	2.78	46.5	2000	133.3	380	340	44.1	104
HP12521-H202F- □□□□	277.5	102	2.71	58.1	2000	133.3	380	328	53.7	115
HP12525-H202F- □□□□	333	129	2.58	69.7	2000	133.3	380	325	63.3	126
HP12529-H202F- □□□□	388.5	143	2.72	81.4	2000	133.3	380	325	73.1	137
HP12533-N202F- □□□□	444	159	2.79	93.0	2000	133.3	380	340	82.7	151
HP12538-H202F- □□□□	499.5	190	2.64	104.6	2000	133.3	380	313	93.4	170
HP12542-N202F- □□□□	555	197	2.82	116.2	2000	133.3	380	348	101.9	188
HP12546-N202F- □□□□	610.5	220	2.78	127.9	2000	133.3	380	340	111.3	206
HP12550-H202F- □□□□	666	246	2.71	139.5	2000	133.3	380	325	120.7	215
HP12555-N202F- □□□□	721.5	260	2.78	151.1	2000	133.3	380	351	130.3	225

Operating Conditions: Drive switching frequency ≥ 4kHz

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz



Motor Model	HP12513	HP12517	HP12521	HP12525	HP12529	HP12533	HP12538	HP12542	HP12546	HP12550	HP12555
L	512	552	592	632	672	712	752	807	827	857	897
L2	110	110	110	110	110	110	140	140	140	140	140
D	48k6	48k6	48k6	48k6	48k6	48k6	60k6	60k6	60k6	60k6	60k6
Shaft Key Size	C14×90	C14×90	C14×90	C14×90	C14×90	C14×90	C18×120	C18×120	C18×120	C18×120	C18×120

Technical Patameter and Dimension List

HP129-F

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m²)	Mass (kg)
HP12927-G152F- □□□□	300	91	3.3	47	1500	150	380	311	0.125	140
HP12936-G152F- □□□□	400	129	3.1	63	1500	150	380	290	0.163	1 60
HP12945-G152F- □□□□	500	150	3.3	79	1500	150	380	311	0.200	181
HP12954-G152F- □□□□	600	181	3.3	94	1500	150	380	311	0.239	205
HP12963-G152F- □□□□	700	228	3.1	110	1500	150	380	290	0.276	228
HP12972-G152F- □□□□	800	258	3.1	126	1500	150	380	290	0.314	268
HP12981-G152F- □□□□	900	300	3.0	141	1500	150	380	280	0.352	282
HP12990-G152F- □□□□	1000	308	3.2	157	1500	150	380	312	0.389	305
HP12927-K182F- □□□□	300	101	3.0	57	1800	180	380	335	0.125	140
HP12936-G182F- □□□□	400	151	2.6	75	1800	180	380	298	0.163	160
HP12945-G182F- □□□□	500	181	2.8	94	1800	180	380	311	0.200	181
HP12954-K182F- □□□□	600	202	3.0	113	1800	180	380	336	0.239	205
HP12963-G182F- □□□□	700	259	2.7	132	1800	180	380	305	0.276	228
HP12972-G182F- □□□□	800	302	2.6	151	1800	180	380	298	0.314	268
HP12981-K182F- □□□□	900	302	3.0	170	1800	180	380	336	0.352	282
HP12990-G182F- □□□□	1000	362	2.8	188	1800	180	380	311	0.389	305
HP12927-G202F- □□□□	300	121	2.5	63	2000	200	380	311	0.125	140
HP12936-K202F- □□□□	400	152	2.6	84	2000	200	380	331	0.163	1 60
HP12945-G202F- □□□□	500	202	2.5	105	2000	200	380	311	0.200	181
HP12954-G202F- □□□□	600	259	2.3	126	2000	200	380	290	0.239	205
HP12963-G202F- □□□□	700	303	2.3	147	2000	200	380	290	0.276	228
HP12972-K202F- □□□□	800	303	2.6	168	2000	200	380	332	0.314	268
HP12981-G202F- □□□□	900	363	2.5	188	2000	200	380	311	0.352	282
HP12990-K202F- □□□□	1000	364	2.7	209	2000	200	380	346	0.389	305

Operating Conditions: Drive switching frequency ≥ 4kHz

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz

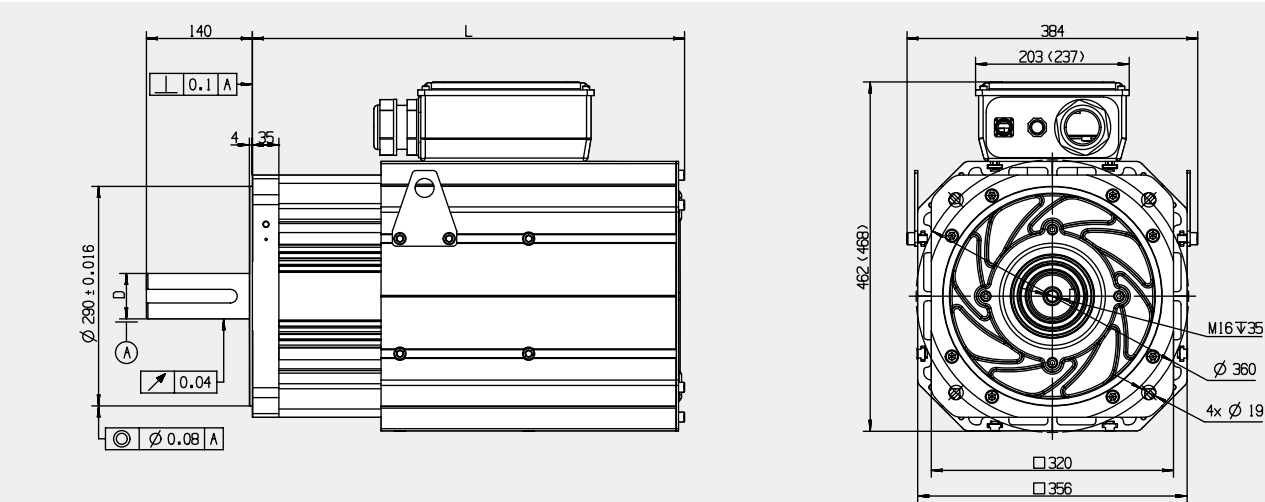
HP130/P-F

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m²)	Mass (kg)
HP13036-P102F- □□□□	405	72	5.63	42	1000	100	380	336	0.354	295
HP13048-P102F- □□□□	540	95	5.66	57	1000	100	380	336	0.46	320
HP13060-P102F- □□□□	675	117	5.77	71	1000	100	380	350	0.556	345
HP13072-P102F- □□□□	810	142	5.70	85	1000	100	380	338	0.652	370
HP13084-P102F- □□□□	945	162	5.83	99	1000	100	380	362	0.745	400
HP13096-P102F- □□□□	1080	190	5.69	113	1000	100	380	338	0.84	425
HP130U1-P102F- □□□□	1170	205	5.70	123	1000	100	380	338	0.946	450
HP130U2-T102F- □□□□	1300	233	5.58	136	1000	100	380	329	1.05	485
HP130U3-P102F- □□□□	1430	244	5.85	150	1000	100	380	362	1.155	505
HP130U4-P102F- □□□□	1560	273	5.71	163	1000	100	380	338	1.242	525
HP13036-P122F- □□□□	405	85	4.79	57	1200	120	380	353	0.354	295
HP13048-P122F- □□□□	540	114	4.72	68	1200	120	380	338	0.46	320
HP13060-P122F- □□□□	675	142	4.75	85	1200	120	380	338	0.556	345
HP13072-P122F- □□□□	810	170	4.76	102	1200	120	380	338	0.652	370
HP13084-P122F- □□□□	945	194	4.86	119	1200	120	380	355	0.745	400
HP13096-P122F- □□□□	1080	221	4.90	136	1200	120	380	361	0.84	425
HP130U1-P122F- □□□□	1170	250	4.68	147	1200	120	380	355	0.946	450
HP130U2-T122F- □□□□	1300	284	4.57	163	1200	120	380	338	1.05	485
HP130U3-T122F- □□□□	1430	342	4.18	180	1200	120	380	310	1.155	505
HP130U4-P122F- □□□□	1560	340	4.59	196	1200	120	380	338	1.242	525
HP13036-P152F- □□□□	405	108	3.75	64	1500	150	380	338	0.354	295
HP13048-P152F- □□□□	540	142	3.80	85	1500	150	380	338	0.46	320
HP13060-P152F- □□□□	675	176	3.85	106	1500	150	380	352	0.556	345
HP13072-P152F- □□□□	810	214	3.78	127	1500	150	380	338	0.652	370
HP13084-P152F- □□□□	945	248	3.80	148	1500	150	380	345	0.745	400
HP13096-P152F- □□□□	1080	284	3.80	170	1500	150	380	338	0.84	425
HP130U1-T152F- □□□□	1170	349	3.35	184	1500	150	380	317	0.946	450
HP130U2-T152F- □□□□	1300	348	3.73	204	1500	150	380	352	1.05	485
HP130U3-T152F- □□□□	1430	437	3.28	225	1500	150	380	310	1.155	505
HP130U4-P152F- □□□□	1560	428	3.65	245	1500	150	380	338	1.242	525

Operating Conditions: Drive switching frequency ≥ 4kHz

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz



Motor Model	HP12927	HP12936	HP12945	HP12954	HP12963	HP12972	HP12981	HP12990
L	526	571	616	676	721	766	811	856
D	60k6	60k6	60k6	65k6	65k6	75k6	75k6	75k6
Shaft Key Size	C18×120	C18×120	C18×120	C18×120	C18×120	C20×125	C20×125	C20×125

Technical Patameter and Dimension List

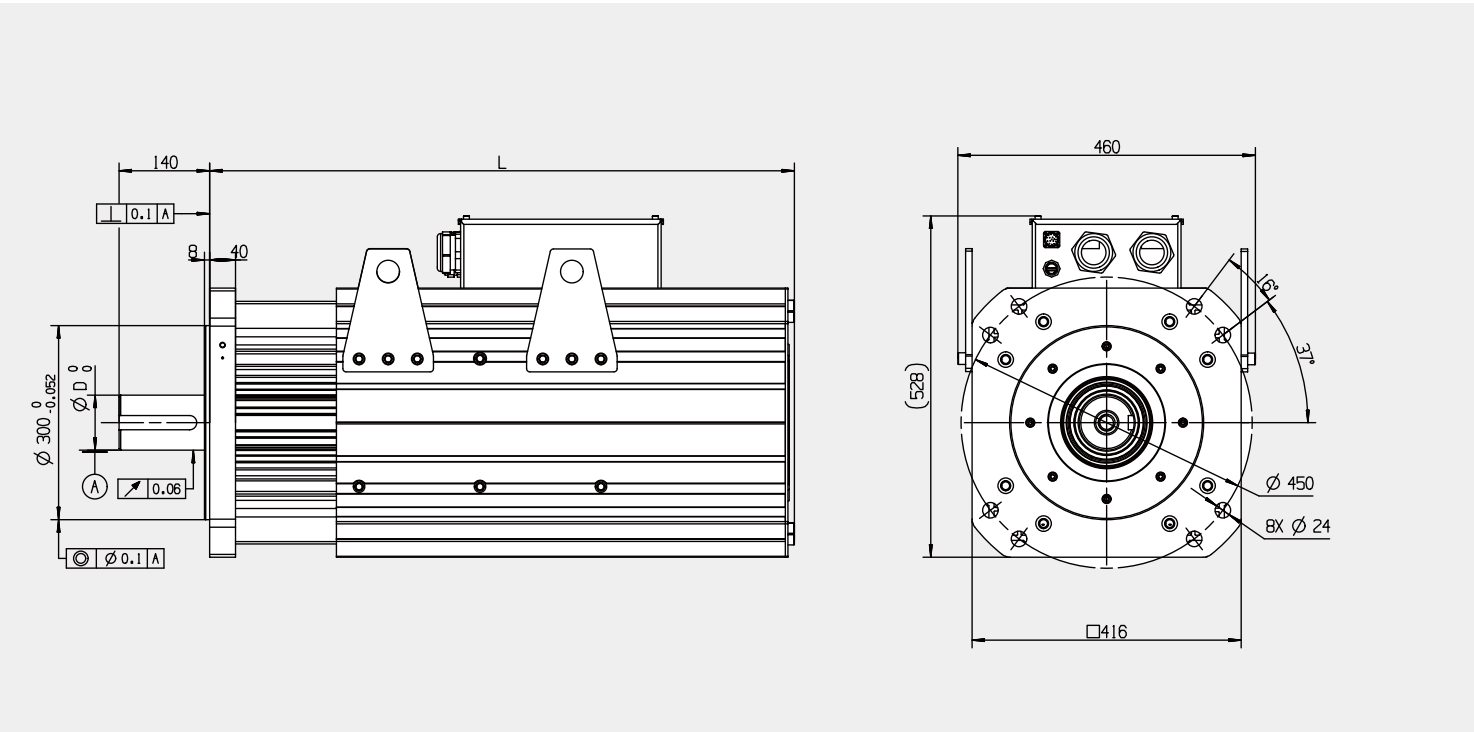
HP130/P-F

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m ²)	Mass (kg)
HP13036-P182F- □□□□	405	127	3.19	76	1800	180	380	353	0.354	295
HP13048-P182F- □□□□	540	172	3.14	102	1800	180	380	338	0.46	320
HP13060-P182F- □□□□	675	214	3.15	127	1800	180	380	338	0.556	345
HP13072-P182F- □□□□	810	248	3.26	153	1800	180	380	355	0.652	370
HP13084-P182F- □□□□	945	290	3.26	178	1800	180	380	355	0.745	400
HP13096-P182F- □□□□	1080	349	3.09	204	1800	180	380	338	0.84	425
HP130U1-T182F- □□□□	1170	437	2.68	221	1800	180	380	304	0.946	450
HP130U2-P182F- □□□□	1300	434	3.00	245	1800	180	380	338	1.05	485
HP130U3-P182F- □□□□	1430	456	3.13	270	1800	180	380	372	1.155	505
HP130U4-T182F- □□□□	1560	585	2.67	294	1800	180	380	304	1.242	525

Operating Conditions: Drive switching frequency ≥ 4kHz

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz



Motor Model	HP13036	HP13048	HP13060	HP13072	HP13084	HP13096	HP13U1	HP13U2	HP13U3	HP13U4
L	645	685	725	765	825	865	905	985	1025	1065
D	85m6	85m6	85m6	85m6	85m6	85m6	90m6	90m6	90m6	90m6
Shaft Key Size	C22×120	C22×120	C22×120	C22×120	C22×120	C22×120	C25×120	C25×120	C25×120	C25×120

HP118-W

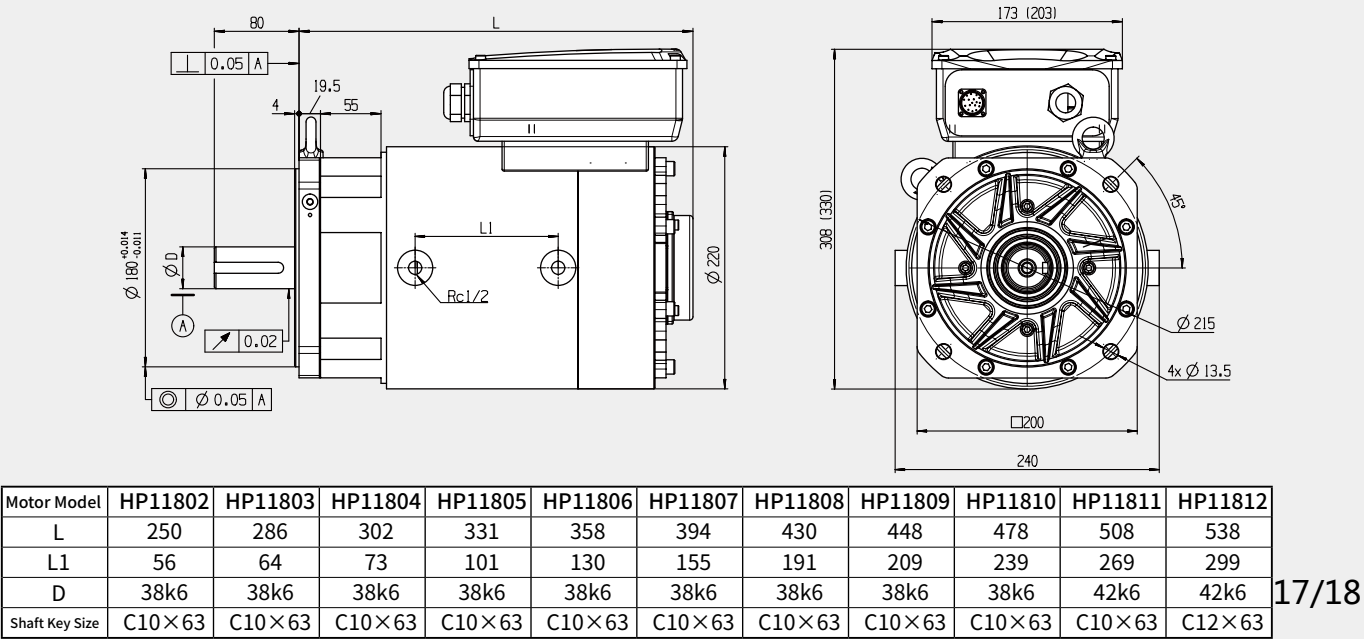
Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m ² .10 ⁻³)	Mass (kg)
HP11802-Z152W- □□□□	40	11.7	3.42	6.3	1500	100	380	323	7.8	29
HP11803-Z152W- □□□□	60	17.6	3.41	9.4	1500	100	380	323	11.1	34
HP11804-Z152W- □□□□	80	23.5	3.40	12.6	1500	100	380	323	14.1	39
HP11805-Z152W- □□□□	100	29.1	3.44	15.7	1500	100	380	327	17.2	44
HP11806-Z152W- □□□□	120	35.3	3.40	18.8	1500	100	380	323	20.4	49
HP11807-Z152W- □□□□	140	41.2	3.40	22.0	1500	100	380	323	23.6	54
HP11808-Z152W- □□□□	160	47.1	3.40	25.1	1500	100	380	323	27	60
HP11809-Z152W- □□□□	180	52.4	3.44	28.3	1500	100	380	329	30.1	65
HP11810-Z152W- □□□□	200	58.9	3.40	31.4	1500	100	380	327	33.2	70
HP11811-Q152W- □□□□	220	62.7	3.51	34.6	1500	100	380	339	36.4	76
HP11812-Z152W- □□□□	240	70.6	3.40	37.7	1500	100	380	323	39.5	82
HP11802-Q182W- □□□□	40	13.4	2.99	7.5	1800	120	380	333	7.8	29
HP11803-Q182W- □□□□	60	20.1	2.99	11.3	1800	120	380	333	11.1	34
HP11804-Q182W- □□□□	80	26.8	2.99	15.1	1800	120	380	333	14.1	39
HP11805-Z182W- □□□□	100	34.7	2.88	18.8	1800	120	380	323	17.2	44
HP11806-Q182W- □□□□	120	40.1	2.99	22.6	1800	120	380	333	20.4	49
HP11807-Z182W- □□□□	140	48.8	2.87	26.4	1800	120	380	323	23.6	54
HP11808-Q182W- □□□□	160	54	2.96	30.2	1800	120	380	333	27	60
HP11809-Q182W- □□□□	180	61.2	2.94	33.9	1800	120	380	333	30.1	65
HP11810-Z182W- □□□□	200	70	2.86	37.7	1800	120	380	323	33.2	70
HP11811-Z182W- □□□□	220	75.2	2.93	41.5	1800	120	380	330	36.4	76
HP11812-Q182W- □□□□	240	81.4	2.95	45.2	1800	120	380	333	39.5	82
HP11802-Z202W- □□□□	40	15.2	2.63	8.4	2000	133.3	380	329	7.8	29
HP11803-Z202W- □□□□	60	23.1	2.60	12.6	2000	133.3	380	323	11.1	34
HP11804-Z202W- □□□□	80	30.5	2.62	16.8	2000	133.3	380	329	14.1	39
HP11805-Q202W- □□□□	100	37.8	2.65	20.9	2000	133.3	380	334	17.2	44
HP11806-Z202W- □□□□	120	46.4	2.59	25.1	2000	133.3	380	323	20.4	49
HP11807-Z202W- □□□□	140	54.2	2.58	29.3	2000	133.3	380	323	23.6	54
HP11808-Z202W- □□□□	160	61.6	2.60	33.5	2000	133.3	380	329	27	60
HP11809-Z202W- □□□□	180	70.1	2.57	37.7	2000	133.3	380	323	30.1	65
HP11810-Q202W- □□□□	200	76.8	2.60	41.9	2000	133.3	380	334	33.2	70
HP11811-Q202W- □□□□	220	84.1	2.62	46.1	2000	133.3	380	339	36.4	76
HP11812-Q202W- □□□□	240	91.6	2.62	50.3	2000	133.3	380	339	39.5	82

Operating Conditions:

1. Drive switching frequency ≥ 4kHz; 2. Cooling Medium Specifications: Oil, Flow ≥ 12L/min, Pressure ≤ 0.6Mpa, Inlet oil temperature ≤ 50°C .

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz



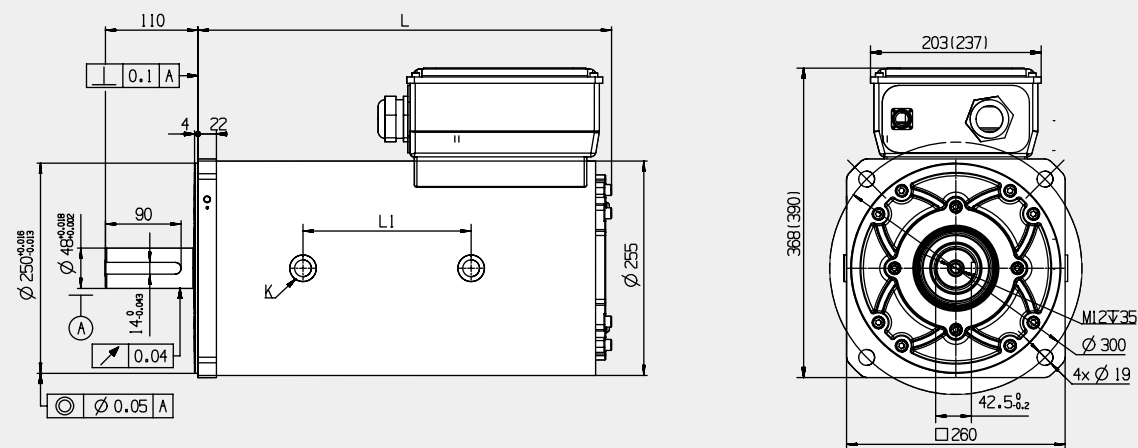
Motor Model	HP11802	HP11803	HP11804	HP11805	HP11806	HP11807	HP11808	HP11809	HP11810	HP11811	HP11812
L	250	286	302	331	358	394	430	448	478	508	538
L1	56	64	73	101	130	155	191	209	239	269	299
D	38k6	38k6	38k6	38k6	38k6	38k6	38k6	38k6	38k6	42k6	42k6
Shaft Key Size	C10×63	C10×63	C10×63	C10×63	C10×63	C10×63	C10×63	C10×63	C10×63	C10×63	C12×63

HP120-W

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m ² .10 ⁻³)	Mass (kg)
HP12008-H152W-□□□□	100	31	3.3	15.7	1500	100	380	307	15	76
HP12012-H152W-□□□□	150	46	3.3	23.6	1500	100	380	307	20.6	92
HP12016-H152W-□□□□	200	62	3.3	31.4	1500	100	380	307	26.2	108
HP12020-H152W-□□□□	250	74	3.4	39.3	1500	100	380	320	31.8	124
HP12024-H152W-□□□□	300	92	3.3	47	1500	100	380	307	37.4	140
HP12028-H152W-□□□□	350	105	3.3	55	1500	100	380	314	43	156
HP12032-H152W-□□□□	400	123	3.3	62.8	1500	100	380	307	48.6	172
HP12036-H152W-□□□□	450	134	3.4	70.7	1500	100	380	317	54.2	188
HP12040-H152W-□□□□	500	148	3.4	78.5	1500	100	380	320	59.8	204
HP12008-H182W-□□□□	100	37	2.7	18.8	1800	120	380	307	15	76
HP12012-H182W-□□□□	150	53	2.8	28.3	1800	120	380	323	20.6	92
HP12016-H182W-□□□□	200	74	2.7	37.7	1800	120	380	307	26.2	108
HP12020-H182W-□□□□	250	92	2.7	47	1800	120	380	307	31.8	124
HP12024-H182W-□□□□	300	105	2.8	56.5	1800	120	380	323	37.4	140
HP12028-H182W-□□□□	350	123	2.8	66	1800	120	380	323	43	156
HP12032-H182W-□□□□	400	148	2.7	75.4	1800	120	380	307	48.6	172
HP12036-H182W-□□□□	450	164	2.7	84.8	1800	120	380	311	54.2	188
HP12040-H182W-□□□□	500	185	2.7	94.2	1800	120	380	307	59.8	204
HP12008-H202W-□□□□	100	41	2.4	21	2000	133.3	380	307	15	76
HP12012-H202W-□□□□	150	62	2.4	31.4	2000	133.3	380	307	20.6	92
HP12016-H202W-□□□□	200	82	2.4	42	2000	133.3	380	307	26.2	108
HP12020-H202W-□□□□	250	98	2.5	52.4	2000	133.3	380	320	31.8	124
HP12024-H202W-□□□□	300	123	2.4	62.8	2000	133.3	380	307	37.4	140
HP12028-H202W-□□□□	350	134	2.6	73.3	2000	133.3	380	329	43	156
HP12032-H202W-□□□□	400	164	2.4	83.8	2000	133.3	380	307	48.6	172
HP12036-H202W-□□□□	450	185	2.4	94.2	2000	133.3	380	307	54.2	188
HP12040-H202W-□□□□	500	186	2.7	104.7	2000	133.3	380	341	59.8	204

1. Drive switching frequency $\geq 4\text{kHz}$;
2. Cooling Medium Specifications: Oil, Flow $\geq 15\text{L/min}$, Pressure $\leq 0.6\text{Mpa}$, Inlet oil temperature $\leq 50^\circ\text{C}$.

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (T_{flange} = 30°C)
- > Typical data tolerance ±10%
- > Threshold of built in PTC 130°C
- > Switching frequency 4kHz

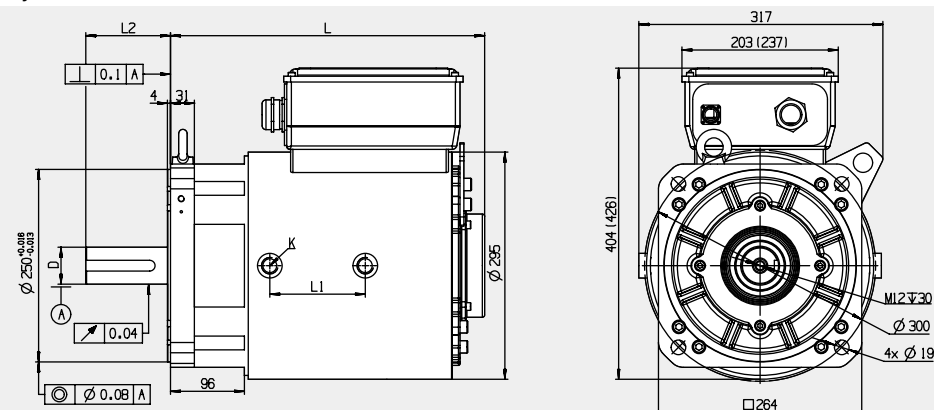


Motor Model	HP12008	HP12012	HP12016	HP12020	HP12024	HP12028	HP12032	HP12036	HP12040
L	342	392	442	492	542	592	642	692	742
L1	120	140	190	240	290	340	390	440	490
K	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc3/4	Rc3/4	Rc3/4	Rc3/4

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m ² .10 ⁻³)	Mass (kg)
HP12513-H152W-□□□□	171	49	3.53	26.9	1500	100	380	313	34.3	91
HP12517-H152W-□□□□	228	65	3.51	35.8	1500	100	380	325	44.1	104
HP12521-H152W-□□□□	285	81	3.52	44.8	1500	100	380	319	53.7	115
HP12525-H152W-□□□□	342	96	3.56	53.7	1500	100	380	330	63.3	126
HP12529-H152W-□□□□	399	111	3.58	62.7	1500	100	380	325	73.1	137
HP12533-H152W-□□□□	456	127	3.58	71.6	1500	100	380	325	82.7	151
HP12538-H152W-□□□□	513	146	3.51	80.6	1500	100	380	313	93.4	170
HP12542-H152W-□□□□	570	160	3.56	89.5	1500	100	380	319	101.9	188
HP12546-H152W-□□□□	627	176	3.56	98.5	1500	100	380	319	111.3	206
HP12550-H152W-□□□□	684	196	3.5	107.4	1500	100	380	313	120.7	215
HP12555-N152W-□□□□	741	201	3.69	116.4	1500	100	380	339	130.3	225
HP12513-N182W-□□□□	168	55	3.05	31.7	1800	120	380	334	34.3	91
HP12517-N182W-□□□□	224	74	3.03	42.2	1800	120	380	334	44.1	104
HP12521-H182W-□□□□	280	92	3.03	52.8	1800	120	380	330	53.7	115
HP12525-H182W-□□□□	336	115	2.92	63.3	1800	120	380	313	63.3	126
HP12529-H182W-□□□□	392	134	2.93	73.9	1800	120	380	317	73.1	137
HP12533-N182W-□□□□	448	147	3.05	84.4	1800	120	380	334	82.7	151
HP12538-H182W-□□□□	504	172	2.93	95	1800	120	380	313	93.4	170
HP12542-H182W-□□□□	560	192	2.91	105.5	1800	120	380	313	101.9	188
HP12546-N182W-□□□□	616	198	3.11	116.1	1800	120	380	345	111.3	206
HP12550-N182W-□□□□	672	218	3.08	126.7	1800	120	380	334	120.7	215
HP12555-H182W-□□□□	728	246	2.96	137.2	1800	120	380	316	130.3	225
HP12513-H202W-□□□□	166.5	62	2.69	34.9	2000	133.3	380	325	34.3	91
HP12517-N202W-□□□□	222	80	2.78	46.5	2000	133.3	380	340	44.1	104
HP12521-H202W-□□□□	277.5	102	2.71	58.1	2000	133.3	380	328	53.7	115
HP12525-H202W-□□□□	333	129	2.58	69.7	2000	133.3	380	325	63.3	126
HP12529-H202W-□□□□	388.5	143	2.72	81.4	2000	133.3	380	325	73.1	137
HP12533-N202W-□□□□	444	159	2.79	93	2000	133.3	380	340	82.7	151
HP12538-H202W-□□□□	499.5	190	2.64	104.6	2000	133.3	380	313	93.4	170
HP12542-N202W-□□□□	555	197	2.82	116.2	2000	133.3	380	348	101.9	188
HP12546-N202W-□□□□	610.5	220	2.78	127.9	2000	133.3	380	340	111.3	206
HP12550-H202W-□□□□	666	246	2.71	139.5	2000	133.3	380	325	120.7	215
HP12555-N202W-□□□□	721.5	260	2.78	151.1	2000	133.3	380	351	130.3	225

1. Drive switching frequency $\geq 4\text{kHz}$;
2. Cooling Medium Specifications: Oil, Flow $\geq 20\text{L/min}$, Pressure $\leq 0.6\text{Mpa}$, Inlet oil temperature $\leq 50^\circ\text{C}$.

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (T_{flange} = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz



Motor Model	HP12513	HP12517	HP12521	HP12525	HP12529	HP12533	HP12538	HP12542	HP12546	HP12550	HP12555
L	368	408	448	488	528	568	608	663	713	753	783
L1	106	124	164	204	244	284	300	360	424	464	475
L2	110	110	110	110	110	110	140	140	140	140	140
D	48k6	48k6	48k6	48k6	48k6	48k6	60k6	60k6	60k6	60k6	60k6
K	Rc1/2	Rc1/2	Rc1/2	Rc1/2	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4
Shaft Key Size	C14×90	C14×90	C14×90	C14×90	C14×90	C14×90	C18×120	C18×120	C18×120	C18×120	C18×120

Technical Patameter and Dimension List

HP129-W

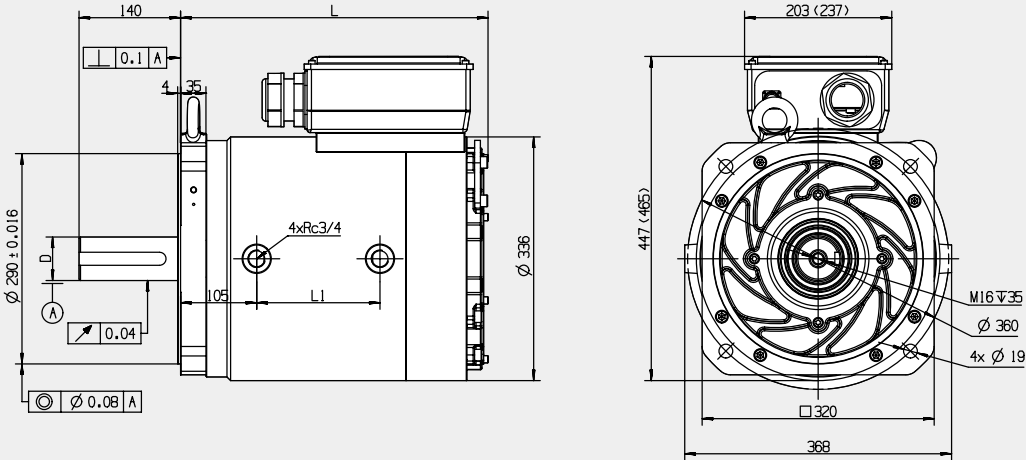
Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m²)	Mass (kg)
HP12927-G152W- □□□□	300	91	3.3	47	1500	150	380	311	0.125	146
HP12936-G152W- □□□□	400	129	3.1	63	1500	150	380	290	0.163	171
HP12945-G152W- □□□□	500	150	3.3	79	1500	150	380	311	0.200	196
HP12954-G152W- □□□□	600	181	3.3	94	1500	150	380	311	0.239	225
HP12963-G152W- □□□□	700	228	3.1	110	1500	150	380	290	0.276	241
HP12972-G152W- □□□□	800	258	3.1	126	1500	150	380	290	0.314	290
HP12981-G152W- □□□□	900	300	3.0	141	1500	150	380	280	0.352	309
HP12990-G152W- □□□□	1000	308	3.2	157	1500	150	380	312	0.389	330
HP12927-K182W- □□□□	300	101	3.0	57	1800	180	380	335	0.125	146
HP12936-G182W- □□□□	400	151	2.6	75	1800	180	380	298	0.163	171
HP12945-G182W- □□□□	500	181	2.8	94	1800	180	380	311	0.200	196
HP12954-K182W- □□□□	600	202	3.0	113	1800	180	380	336	0.239	225
HP12963-G182W- □□□□	700	259	2.7	132	1800	180	380	305	0.276	241
HP12972-G182W- □□□□	800	302	2.6	151	1800	180	380	298	0.314	290
HP12981-K182W- □□□□	900	302	3.0	170	1800	180	380	336	0.352	309
HP12990-G182W- □□□□	1000	362	2.8	188	1800	180	380	311	0.389	330
HP12927-G202W- □□□□	300	121	2.5	63	2000	200	380	311	0.125	146
HP12936-K202W- □□□□	400	152	2.6	84	2000	200	380	331	0.163	171
HP12945-G202W- □□□□	500	202	2.5	105	2000	200	380	311	0.200	196
HP12954-G202W- □□□□	600	259	2.3	126	2000	200	380	290	0.239	225
HP12963-G202W- □□□□	700	303	2.3	147	2000	200	380	290	0.276	241
HP12972-K202W- □□□□	800	303	2.6	168	2000	200	380	332	0.314	290
HP12981-G202W- □□□□	900	363	2.5	188	2000	200	380	311	0.352	309
HP12990-K202W- □□□□	1000	364	2.7	209	2000	200	380	346	0.389	330

Operating Conditions:

1. Drive switching frequency ≥ 4kHz;
2. Cooling Medium Specifications: Oil, Flow ≥ 25L/min, Pressure ≤ 0.6Mpa, Inlet oil temperature ≤ 50°C .

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz



Motor Model	HP12927	HP12936	HP12945	HP12954	HP12963	HP12972	HP12981	HP12990
L	379	424	469	529	574	619	664	709
L1	125	170	215	270	315	360	405	450
D	60k6	60k6	60k6	65k6	65k6	75k6	75k6	75k6
Shaft Key Size	C18×120	C18×120	C18×120	C18×120	C18×120	C20×125	C20×125	C20×125

HP130/P-W

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m²)	Mass (kg)
HP13036-P102W- □□□□	450	80	5.63	47	1000	100	380	336	0.354	280
HP13048-P102W- □□□□	600	106	5.66	63	1000	100	380	336	0.46	305
HP13060-P102W- □□□□	750	130	5.77	79	1000	100	380	350	0.556	335
HP13072-P102W- □□□□	900	158	5.70	94	1000	100	380	338	0.652	365
HP13084-P102W- □□□□	1050	180	5.83	110	1000	100	380	362	0.745	395
HP13096-P102W- □□□□	1200	211	5.69	126	1000	100	380	338	0.84	425
HP130U1-P102W- □□□□	1350	237	5.70	141	1000	100	380	338	0.946	455
HP130U2-T102W- □□□□	1500	269	5.58	157	1000	100	380	329	1.05	485
HP130U3-P102W- □□□□	1650	282	5.85	173	1000	100	380	362	1.155	520
HP130U4-P102W- □□□□	1800	315	5.71	188	1000	100	380	338	1.242	555
HP13036-P122W- □□□□	450	94	4.79	57	1200	120	380	353	0.354	280
HP13048-P122W- □□□□	600	127	4.72	75	1200	120	380	338	0.46	305
HP13060-P122W- □□□□	750	158	4.75	94	1200	120	380	338	0.556	335
HP13072-P122W- □□□□	900	189	4.76	113	1200	120	380	338	0.652	365
HP13084-P122W- □□□□	1050	216	4.86	132	1200	120	380	355	0.745	395
HP13096-P122W- □□□□	1200	245	4.90	151	1200	120	380	361	0.84	425
HP130U1-P122W- □□□□	1350	278	4.86	170	1200	120	380	355	0.946	455
HP130U2-P122W- □□□□	1500	316	4.75	188	1200	120	380	338	1.05	485
HP130U3-T122W- □□□□	1650	380	4.34	207	1200	120	380	310	1.155	520
HP130U4-P122W- □□□□	1800	378	4.76	226	1200	120	380	338	1.242	555
HP13036-P152W- □□□□	450	120	3.75	71	1500	150	380	338	0.354	280
HP13048-P152W- □□□□	600	158	3.80	94	1500	150	380	338	0.46	305
HP13060-P152W- □□□□	750	195	3.85	118	1500	150	380	352	0.556	335
HP13072-P152W- □□□□	900	238	3.78	141	1500	150	380	338	0.652	365
HP13084-P152W- □□□□	1050	272	3.86	165	1500	150	380	345	0.745	395
HP13096-P152W- □□□□	1200	316	3.80	188	1500	150	380	338	0.84	425
HP130U1-T152W- □□□□	1350	388	3.48	212	1500	150	380	317	0.946	455
HP130U2-P152W- □□□□	1500	387	3.88	236	1500	150	380	352	1.05	485
HP130U3-T152W- □□□□	1650	485	3.40	259	1500	150	380	310	1.155	520
HP130U4-P152W- □□□□	1800	475	3.79	283	1500	150	380	338	1.242	555

Operating Conditions:

1. Drive switching frequency ≥ 4kHz;
2. Cooling Medium Specifications: Oil, Flow ≥ 30L/min, Pressure ≤ 0.6Mpa, Inlet oil temperature ≤ 50°C .

Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz

Technical Patameter and Dimension List

HP130/P-W

Model	Rated Torque Tn(Nm)	Rated Current In(A)	KT (Nm/A)	Rated Power Pn(kW)	Rated Speed n(rpm)	Rated Frequency f(Hz)	Voltage Class (V)	Back EMK (V)	Inertia J(kg.m²)	Mass (kg)
HP13036-P182W- □□□□	450	141	3.19	85	1800	180	380	353	0.354	280
HP13048-P182W- □□□□	600	191	3.14	113	1800	180	380	338	0.46	305
HP13060-P182W- □□□□	750	238	3.15	141	1800	180	380	338	0.556	335
HP13072-P182W- □□□□	900	276	3.26	170	1800	180	380	355	0.652	365
HP13084-P182W- □□□□	1050	322	3.26	198	1800	180	380	355	0.745	395
HP13096-P182W- □□□□	1200	388	3.09	226	1800	180	380	338	0.84	425
HP130U1-T182W- □□□□	1350	485	2.78	254	1800	180	380	304	0.946	455
HP130U2-P182W- □□□□	1500	482	3.11	283	1800	180	380	338	1.05	485
HP130U3-P182W- □□□□	1650	507	3.25	311	1800	180	380	372	1.155	520
HP130U4-T182W- □□□□	1800	650	2.77	339	1800	180	380	304	1.242	555

Operating Conditions:

1. Drive switching frequency ≥ 4kHz;
2. Cooling Medium Specifications: Oil, Flow ≥ 30L/min, Pressure ≤ 0.6Mpa, Inlet oil temperature ≤ 50°C .

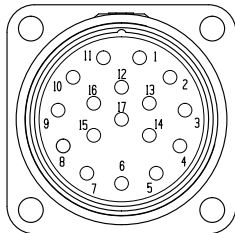
Test Conditions:

- > Motor tested in horizontal position in free still air, ambient temperature 30°C
- > Motor flanged (Tflange = 30°C)
- > Typical data tolerance ±10%
- > Treshold of built in PTC 130°C
- > Switching frequency 4kHz

Motor Connections: Signal / Power

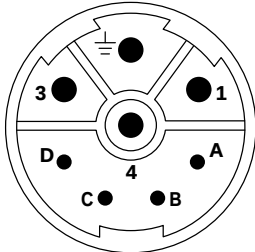
Resolver:

M23-17 Signal Connector



PIN	Signal	Color
3	COS+	Red
4	COS-	Black
7	SIN+	Yellow
8	SIN-	Blue
12	REF+	Red/White
13	REF-	Yellow/White
14	KTY	Black
15	KTY	Black

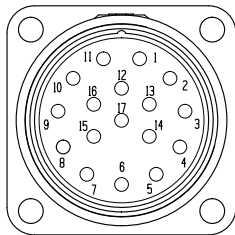
M23 (4+4) Power Connector



PIN	Signal	Color
1	U	Red
	GND	Ground
3	V	Blue
4	W	Yellow
A	PTC1	Blue
B	PTC2	Blue
C	Break+	Red
D	Break-	Black

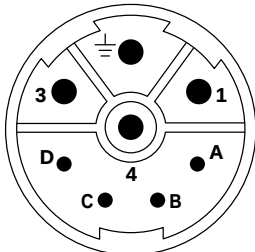
Absolute / Heidenhein:

M23-17 Signal Connector

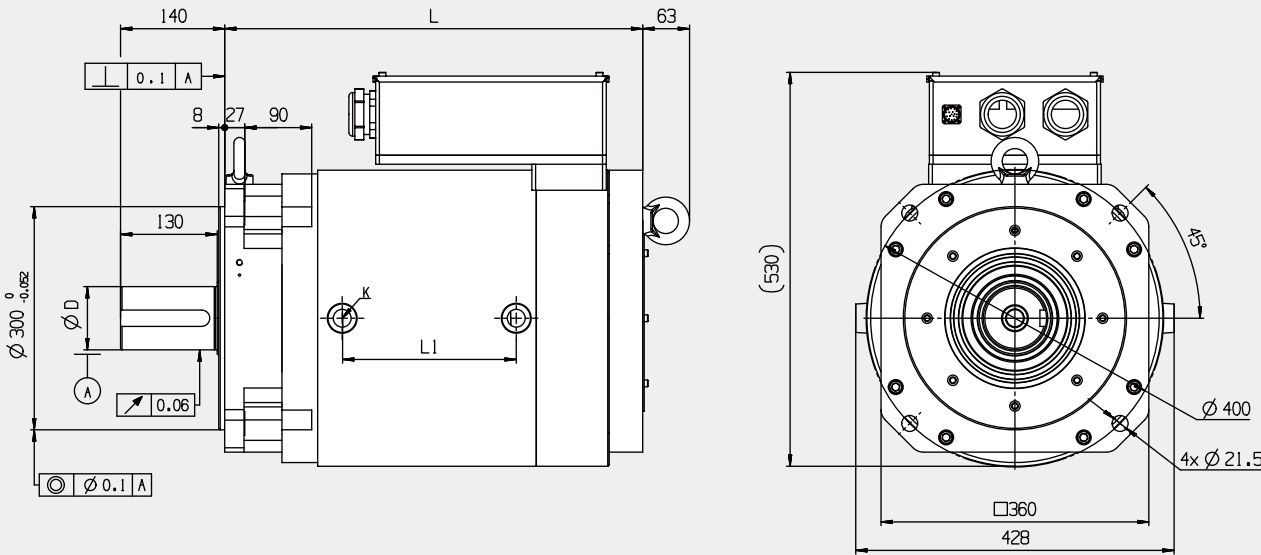


PIN	Signal	Color
1	+Vccsensor	Blue
4	0Vsensor	White
5	KTY	Black
6	KTY	Black
7	+Vcc	Brown/Green
8	Clock+	Purple
9	Clock-	Yellow
10	0V	White/Green
12	B+	Blue/Black
13	B-	Red/Black
14	DATA+	Grey
15	A+	Green/Black
16	A-	Yellow/Black
17	DATA-	Pink

M23 (4+4) Power Connector



PIN	Signal	Color
1	U	Red
	GND	Ground
3	V	Blue
4	W	Yellow
A	PTC1	Blue
B	PTC2	Blue
C	Break+	Red
D	Break-	Black

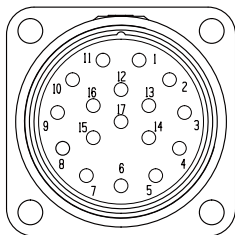


Motor Model	HP13036	HP13048	HP13060	HP13072	HP13084	HP13096	HP130U1	HP130U2	HP130U3	HP130U4
L	442	487	512	562	592	642	682	722	807	847
L1	115	160	184	234	264	316	360	400	492	532
K	Rc1/2	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4	Rc3/4
D	85m6	85m6	85m6	85m6	85m6	85m6	90m6	90m6	90m6	90m6
Shaft Key Size	C22×120	C22×120	C22×120	C22×120	C22×120	C22×120	C25×120	C25×120	C25×120	C25×120

Motor Connections: Signal / Power

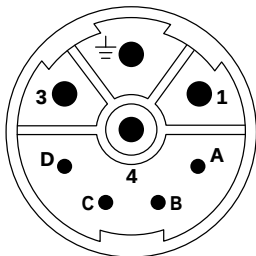
Absolute / Tamagawa:

M23-17 Signal Connector



PIN	Signal	Color
1	VB	Brown
4	GND	Brown/Black
5	KTY	Black
6	KTY	Black
7	VCC+	Red
10	OV	Black
14	DATA+	Blue
17	DATA-	Blue/Black

M23 (4+4) Power Connector



PIN	Signal	Color
1	U	Red
	GND	Ground
3	V	Blue
4	W	Yellow
A	PTC1	Blue
B	PTC2	Blue
C	Break+	Red
D	Break-	Black

Motor Connections: Power

SIZE A		Rated Current In<0-60A> Compatible with fasteners PG21(13-18mm) PG29(18-25mm)
SIZE B		Rated Current In<60-200A> Compatible with fasteners PG29(18-25mm) PG36(22-32mm) PG42(32-38mm) PG48(37-44mm)
SIZE C		Rated Current In<200-400A> Compatible with fasteners 2×PG36(22-32mm) 2×PG42(32-38mm) 2×PG48(37-44mm)
SIZE D		Rated Current In<400-600A> Compatible with fasteners 3×PG42(32-38mm)



Hi3 Series 5.5~315kW Servo Drive**



Hi3** Drive Characteristics

- > Multi-bus communication support: Compatible with mainstream industrial communication protocols including CAN bus, EtherCAT bus, and PROFINET, meeting the requirements of diverse automation scenarios.
- > High encoder compatibility: Supports resolver encoders, Heidenhain Endat encoders, incremental TTL encoders, sine-cosine encoders, SICK Hiperface encoders, biss-c encoders, as well as digital encoders from Tamagawa, Ruiying, and other manufacturers. With an angular resolution of up to 25 bits, it addresses various high-precision feedback demands.
- > Rich I/O interfaces: Equipped with analog input, analog output, and digital I/O functions, meeting versatile control and monitoring needs.
- > Extensive customizable functions: Supports tailored options such as programmable LCD operators, 485 operators, TTL encoder cards, and PROFINET expansion modules, fulfilling personalized requirements.



Hi Drive Ordering Code

Ordering Code

Hi3** - 4 7P5 * 0 2 * * * *

- Reservation
B: Reservation
- Customer Code
V:V-generation Plastic Machinery Customization
C:III-generation Plastic Machinery Customization
- Extension Function:
N: None D: With resolver encoder card P: PN card T: TTL necoder card
- Master Chip
5:DSP28335 7:DSP28377 9:DSP280039
- Customized functions
A-Z, example:
N: Standard E: Support Endat T: Support STO
P: Programmable LCD operator
S: Special mounting dimensions
W: Foreign trade customization F: WIFI operator
- Housing Code
1:5.5-7.5kW 2:5.5-18.5kW 3:18.5-30kW 5:37-45kW
6:55-90kW 7:110-160kW 8:200-315kW
- Cooling Methods
0: Servo fan cooling 2: liquid cooling 5: Though-wall air cooling
- Hardware Version Code
A ~ Z
- Output Power Code
2P2:2.2kW 4P0:4.0kW 315:315kW
- Voltage Range
4:380~480V
- Product series
0*: standard 6*: multi-purpose

Function Overview and Comparison

Series	Matching Control Board	Functions	Customizable functions (specify when placing an order)
Hi300/Hi308	Hi3-S1	CAN Bus Analog Input Analog Output KTY/PTC Digital IO Resolver Encoder	Programmable LCD Operator 485 Operator TTL Encoder Card PROFINET Expansion Module
Hi360/Hi368	Hi3-P1	Same as Hi3-S1 Control Board Functions EtherCAT Bus Heidenhain Encoder Incremental TTL Encoder Sine-Cosine Encoder STO	Programmable LCD Operator 485 Operator TTL Encoder Card PROFINET Expansion Module
	Hi3-P2	Same as Hi3-S1 Control Board Functions EtherCAT Bus Heidenhain Encoder Incremental TTL Encoder Sine-Cosine Encoder STO	Programmable LCD Operator 485 Operator TTL Encoder Card PROFINET Expansion Module Resolver Encoder Card
Hi368	Hi3-P3 (Special for 0# Housing)	Analog Input KTY/PTC Digital IO Resolver Encoder EtherCAT Bus Heidenhain Encoder Incremental TTL Encoder Sine-Cosine Encoder STO	None
Hi301	Hi5-S2	Same as Hi3-S1 Control Board Functions	WI-FI operator

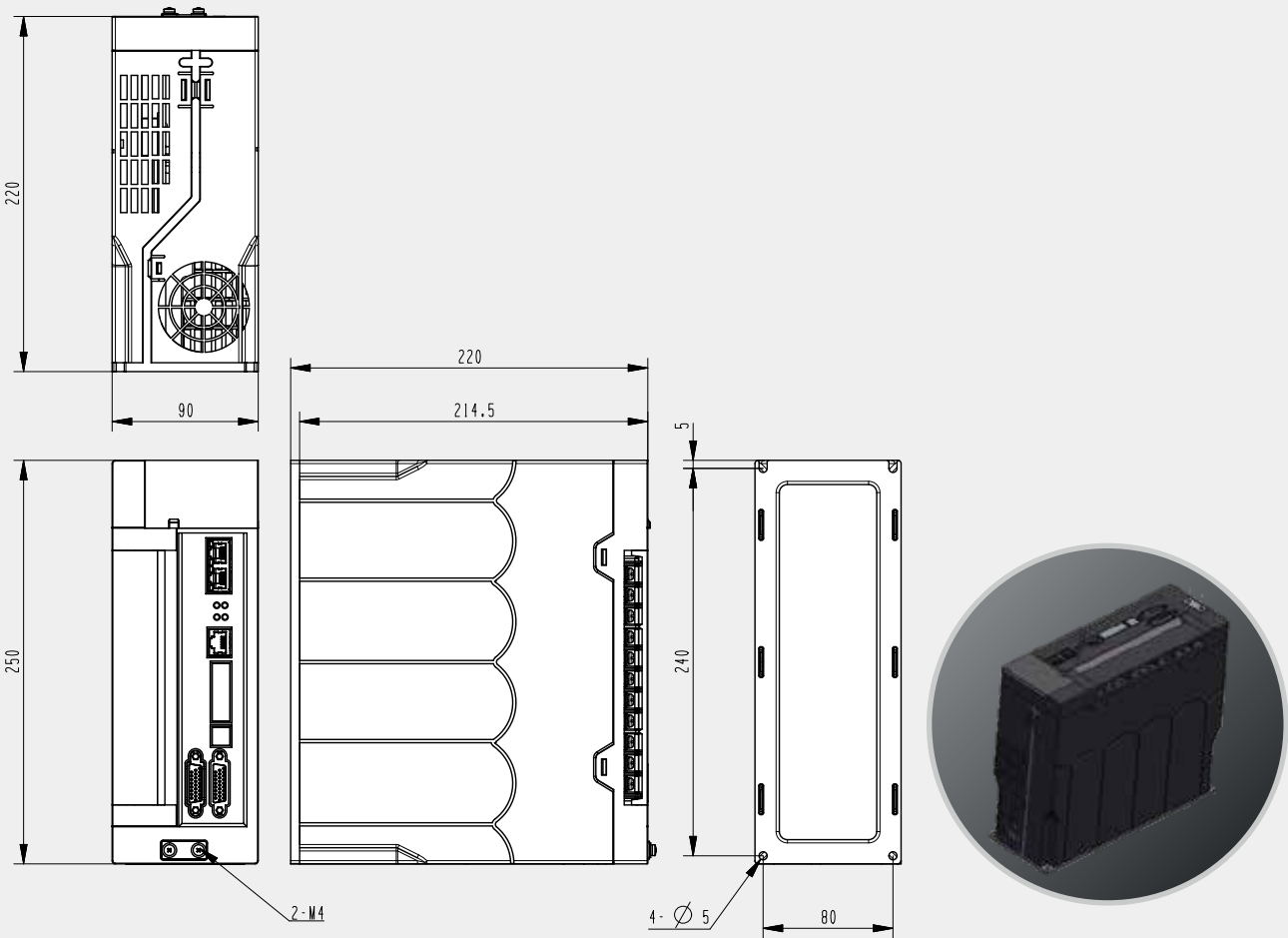
Hi360 series
4.0-5.5-7.5kW Air Cooling

Model Hi360-4 □□□ XXX		5P5	7P5
Housing code		1#	
Protection class		IP20	
Cooling method		Air cooling	
Maximum applicable motor power (kW)		5.5	7.5
Output	Rated output capacity (kVA)	8.3	11.4
	Rated output current (A)	12	16.5
	Overload capacity	150%, 60s 180%, 30S 250%, 1s	
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)	
	Maximum output frequency (Hz)	400	
	Power supply equipment capacity (kVA)	14	19
Input	Voltage range (V)	3 phases, 380 ~ 480	
	Allowable frequency fluctuation (Hz)	50/60 ± 5%	
	Allowable voltage fluctuation	-15% ~ +10%	
	Rated input current (A)	17	21

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.



Hi3** series
5.5-7.5-11-15kW Air Cooling

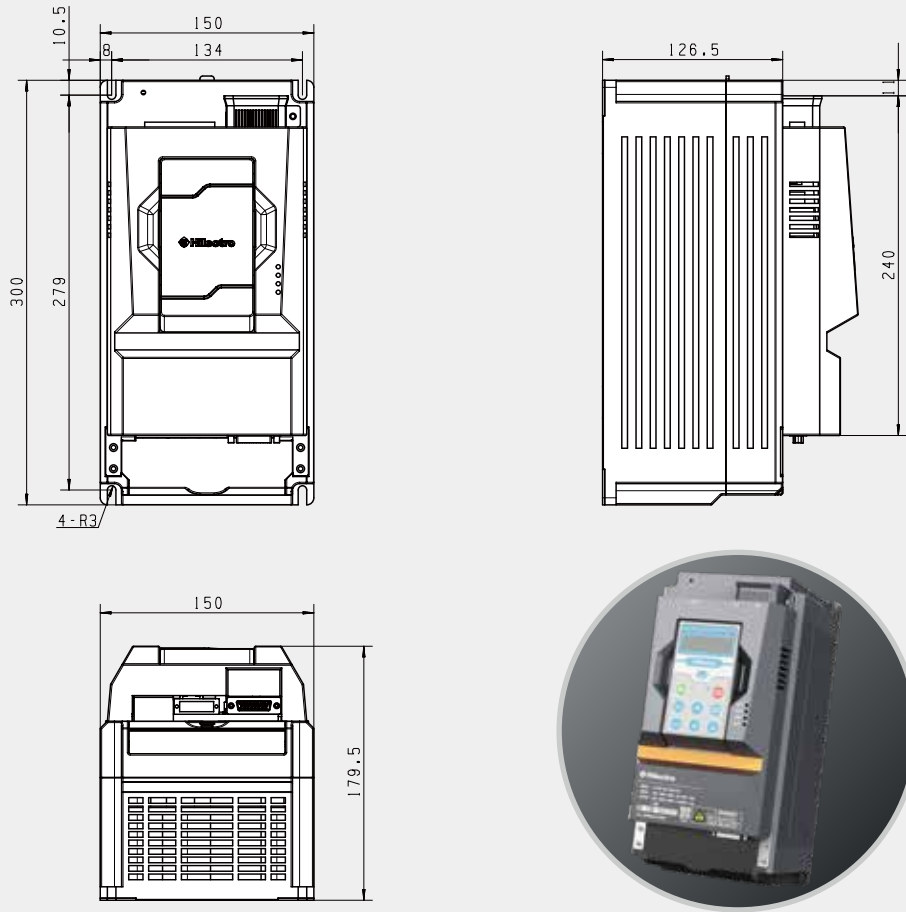
Model Hi3**-4 □□□ XXX		5P5	7P5	011	015
Housing code		2#			
Maximum applicable motor power (kW)		5.5	7.5	11	15
Output	Rated output capacity (kVA)	8.3	11	17	23
	Rated output current (A)	12	16.5	24	33
	Overload capacity	150%, 60s 200%, 1s (switching frequency 2kHz)			
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)			
	Maximum output frequency (Hz)	400			
Input	Power supply equipment capacity (kVA)	14	19	26	36
	Voltage range (V)	3 phases, 380 ~ 480			
	Allowable frequency fluctuation (Hz)	50/60 ± 5%			
	Allowable voltage fluctuation	-15% ~ +10%			
	Rated input current (A)	17	23	31	43

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.

Note 3: The Hi301 series does not currently have 5p5 or 7p5 specifications.



Hi3** series
18.5-22-30kW Air Cooling

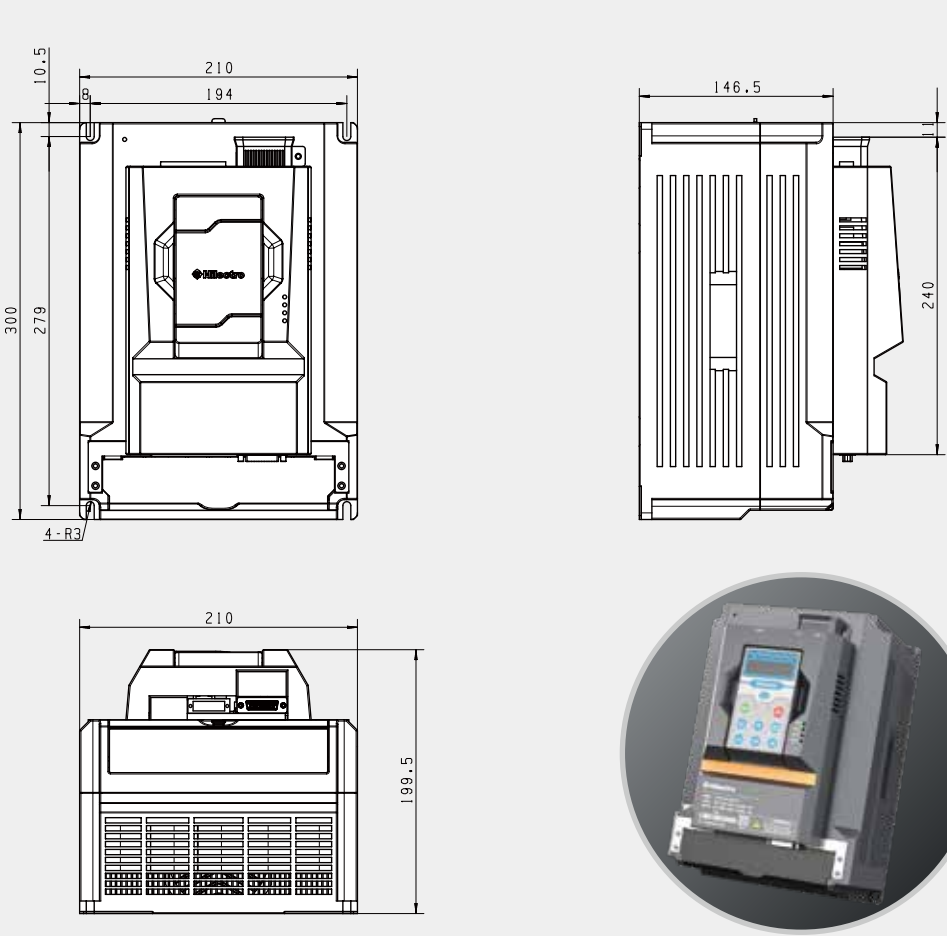
Model Hi3**-4 □□□ XXX		018	022	030
Housing code		3#		
Maximum applicable motor power (kW)		18.5	22	30
Output	Rated output capacity (kVA)	26	32	42
	Rated output current (A)	37	45	60
	Overload capacity	150%, 60s 200%, 1s (switching frequency 2kHz)		
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)		
	Maximum output frequency (Hz)	400		
Input	Power supply equipment capacity (kVA)	38	42	50
	Voltage range (V)	3 phases, 380 ~ 480		
	Allowable frequency fluctuation (Hz)	50/60 ± 5%		
	Allowable voltage fluctuation	-15% ~ +10%		
	Rated input current (A)	45	50	66

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.
Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.
If the switching frequency is increased, the output capability of the drive will decrease.

Hi3*0 series
37-45kW Air Cooling

Model Hi300/360-4 □□□ XXX		037	045
Housing code		5#	
Maximum applicable motor power (kW)		37	45
Output	Rated output capacity (kVA)	50	63
	Rated output current (A)	75	90
	Overload capacity	150%, 60s 200%, 1s (switching frequency 2kHz)	
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)	
	Maximum output frequency (Hz)	400	
Input	Power supply equipment capacity (kVA)	69	83
	Voltage range (V)	3 phases, 380 ~ 480	
	Allowable frequency fluctuation (Hz)	50/60 ± 5%	
	Allowable voltage fluctuation	-15% ~ +10%	
	Rated input current (A)	83	99

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.
Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.
If the switching frequency is increased, the output capability of the drive will decrease.



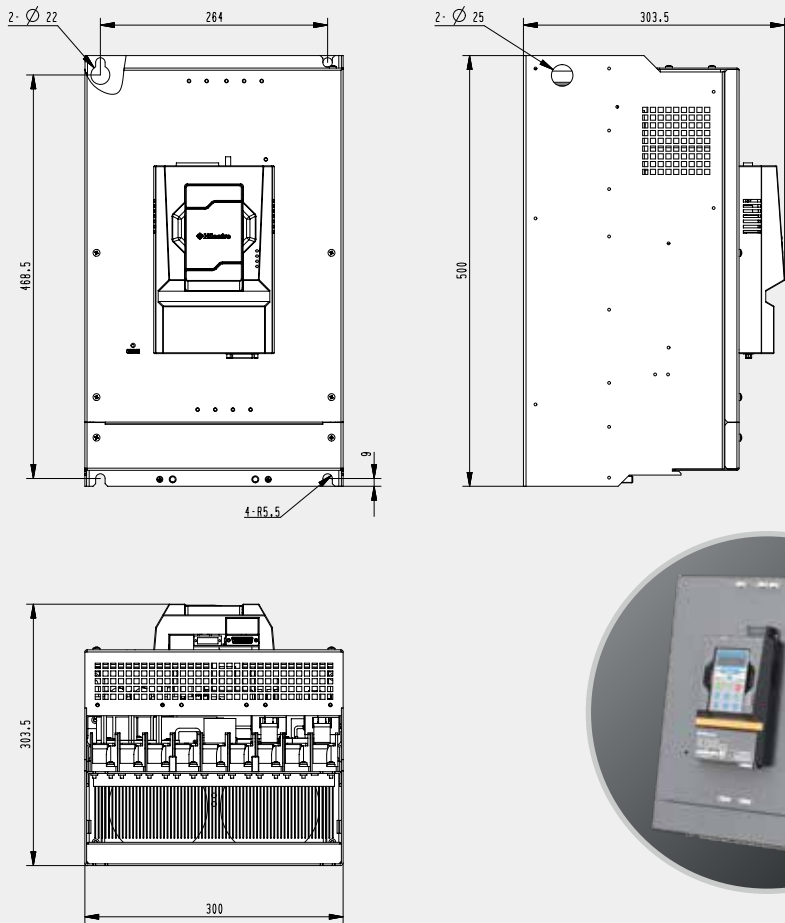
Hi3*0 series
55-75-90kW Air Cooling

Model Hi300/360-4 □□□ XXX		055	075	090
Housing code		6#		
Maximum applicable motor power (kW)		55	75	90
Output	Rated output capacity (kVA)	80	104	125
	Rated output current (A)	115	150	180
	Overload capacity	150%, 60s 200%, 1s (switching frequency 2kHz)		
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)		
	Maximum output frequency (Hz)	400		
Input	Power supply equipment capacity (kVA)	106	137	165
	Voltage range (V)	3 phases, 380 ~ 480		
	Allowable frequency fluctuation (Hz)	50/60 ± 5%		
	Allowable voltage fluctuation	-15% ~ +10%		
	Rated input current (A)	127	165	198

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.



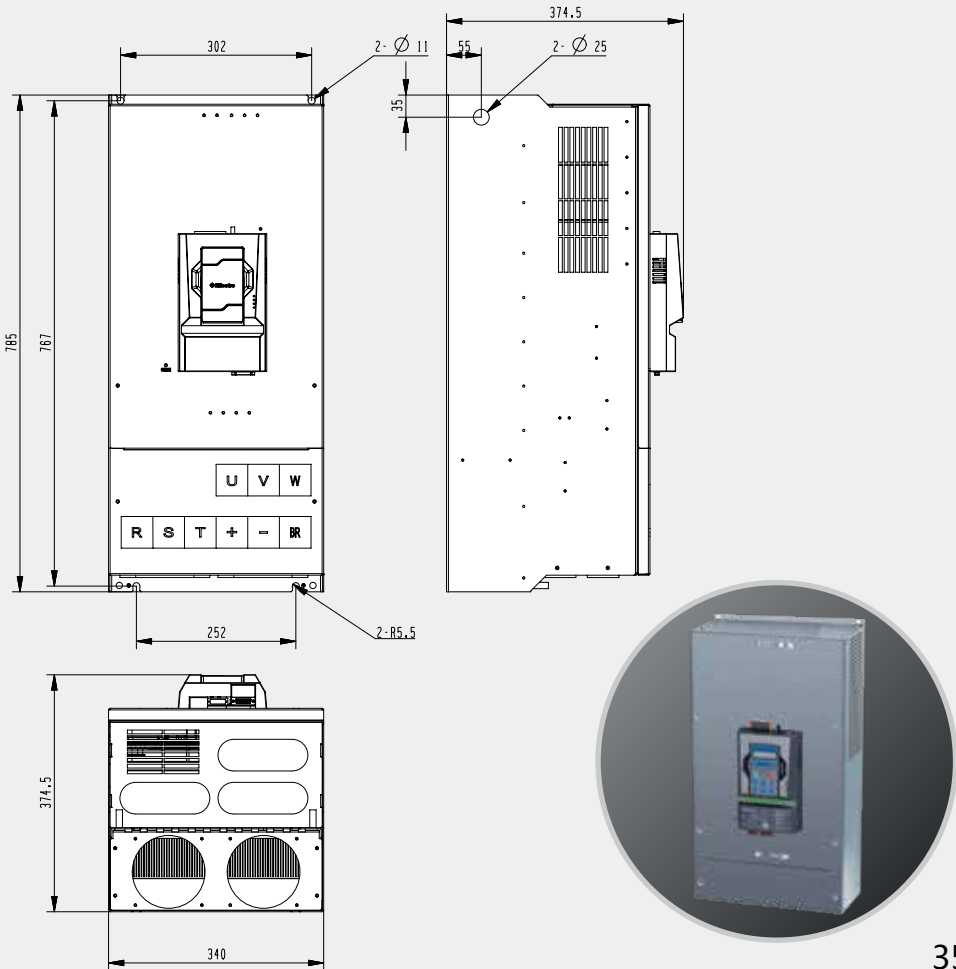
Hi3*0 series
110-132-160kW Air Cooling

Model Hi300/360-4 □□□ XXX		110	132	160
Housing code		7#		
Maximum applicable motor power (kW)		110	132	160
Output	Rated output capacity (kVA)	139	165	198
	Rated output current (A)	210	250	300
	Overload capacity	150%, 60s		
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)		
	Maximum output frequency (Hz)	400		
Input	Power supply equipment capacity (kVA)	177	210	252
	Voltage range (V)	3 phases, 380 ~ 480		
	Allowable frequency fluctuation (Hz)	50/60 ± 5%		
	Allowable voltage fluctuation	-15% ~ +10%		
	Rated input current (A)	231	275	330

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.



Hi3*0 series
200-250kW Air Cooling

Model Hi300/360-4 □□□ XXX		200	250
Housing code		8# B	
Cooling method		Air cooling	
Maximum applicable motor power (kW)		200	250
Output	Rated output capacity (kVA)	256	319
	Rated output current (A)	370	460
	Overload capacity	150%, 60S (above 20Hz)	
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)	
	Maximum output frequency (Hz)	400	
Input	Power supply equipment capacity (kVA)	294	369
	Voltage range (V)	3 phases, 380 ~ 480	
	Allowable frequency fluctuation (Hz)	50/60 ± 5%	
	Allowable voltage fluctuation	-15% ~ +10%	
	Rated input current (A)	385	483

Note 1: For housing 8#, when the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.

Note 3: Housing #8B air cooling units are available with and without a built-in main fan power supply.

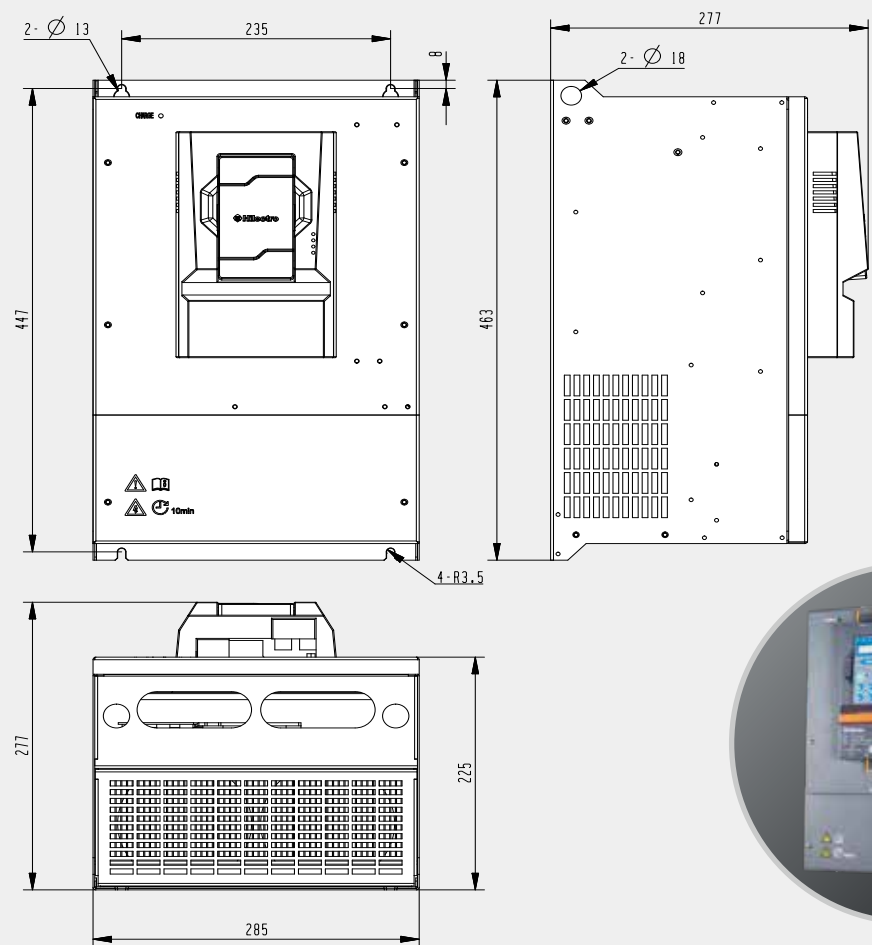
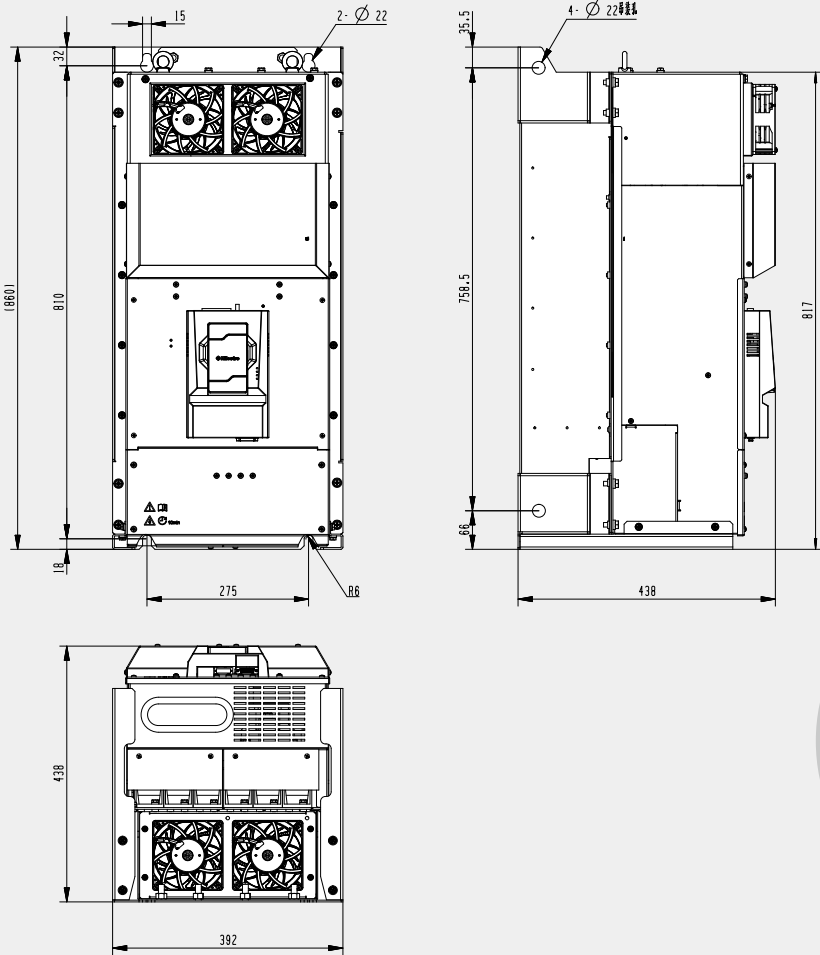
Hi301/3*8 series
37-45kW Air Cooling

Model Hi301/3*8-4 □□□ XXX		037	045
Housing code		5#	
Maximum applicable motor power (kW)		37	45
Output	Rated output capacity (kVA)	50	63
	Rated output current (A)	75	90
	Overload capacity	150%, 60s 200%, 1s (above 5Hz)	
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)	
	Maximum output frequency (Hz)	400	
Input	Power supply equipment capacity (kVA)	63	81
	Voltage range (V)	3 phases, 380 ~ 480	
	Allowable frequency fluctuation (Hz)	50/60 ± 5%	
	Allowable voltage fluctuation	-15% ~ +10%	
	Rated input current (A)	76	92

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.



Hi301/3*8 series
55-75-90kW Air Cooling

Model Hi301/3*8-4 □□□ XXX		055	075	090
Housing code		6#		
Maximum applicable motor power (kW)		55	75	90
Output	Rated output capacity (kVA)	80	104	125
	Rated output current (A)	115	150	180
	Overload capacity	150%, 60s 200%, 1s (above 5Hz)		
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)		
	Maximum output frequency (Hz)	400		
Input	Power supply equipment capacity (kVA)	97	127	150
	Voltage range (V)	3 phases, 380 ~ 480		
	Allowable frequency fluctuation (Hz)	50/60 ± 5%		
	Allowable voltage fluctuation	-15% ~ +10%		
	Rated input current (A)	119	157	185

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

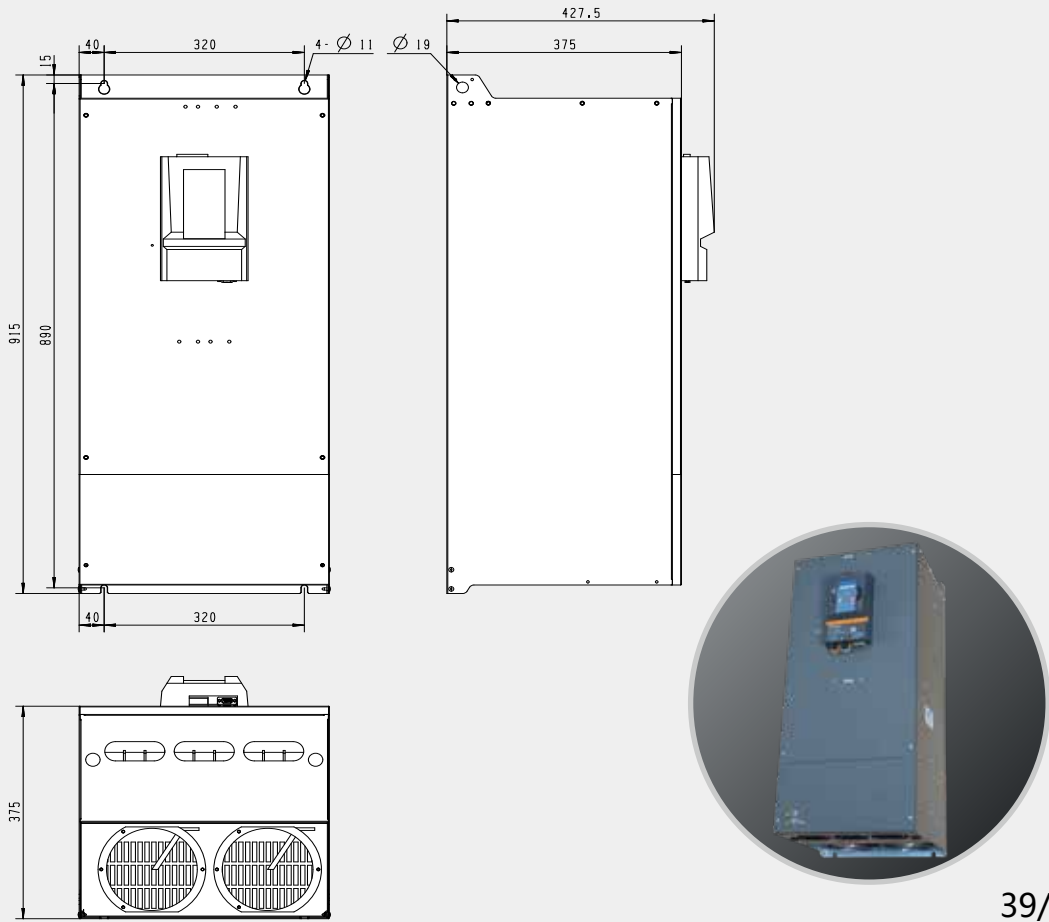
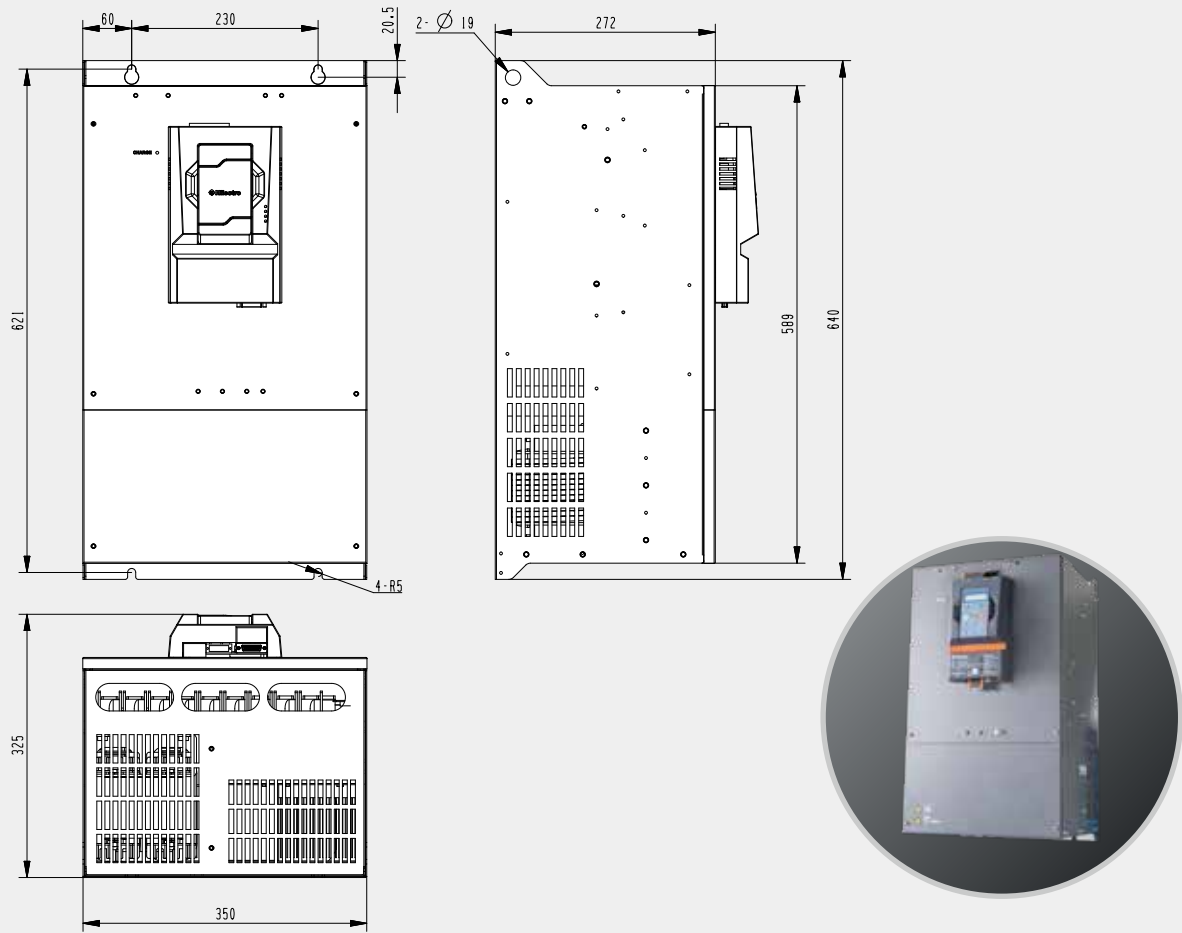
Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.
If the switching frequency is increased, the output capability of the drive will decrease.

3*8 series
110-132-160kW Air Cooling

Model 3*8-4 □□□ XXX		110	132	160
Housing code		7#		
Maximum applicable motor power (kW)		110	132	160
Output	Rated output capacity (kVA)	145	173	208
	Rated output current (A)	210	250	300
	Overload capacity	150%, 60s (switching frequency 2kHz)		
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)		
	Maximum output frequency (Hz)	400		
Input	Power supply equipment capacity (kVA)	179	220	263
	Voltage range (V)	3 phases, 380 ~ 480		
	Allowable frequency fluctuation (Hz)	50/60Hz ± 5%		
	Allowable voltage fluctuation	-15% ~ +10%		
	Rated input current (A)	216	257	309

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.
If the switching frequency is increased, the output capability of the drive will decrease.



Hi300 series
22-30kW Air Cooling

Model Hi300-4 □□□ XXX		022	030
Housing code		3#	
Maximum applicable motor power (kW)		22	30
Output	Rated output capacity (kVA)	32	42
	Rated output current (A)	45	60
	Overload capacity	150%, 60s 200%, 1s (switching frequency 2kHz)	
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)	
	Maximum output frequency (Hz)	400	
Input	Power supply equipment capacity (kVA)	42	50
	Voltage range (V)	3 phases, 380 ~ 480	
	Allowable frequency fluctuation (Hz)	50/60 ± 5%	
	Allowable voltage fluctuation	-15% ~ +10%	
	Rated input current (A)	50	66

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.

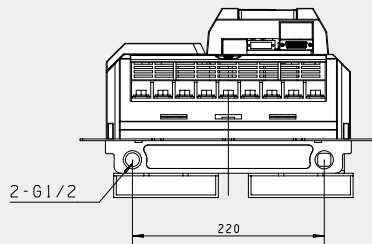
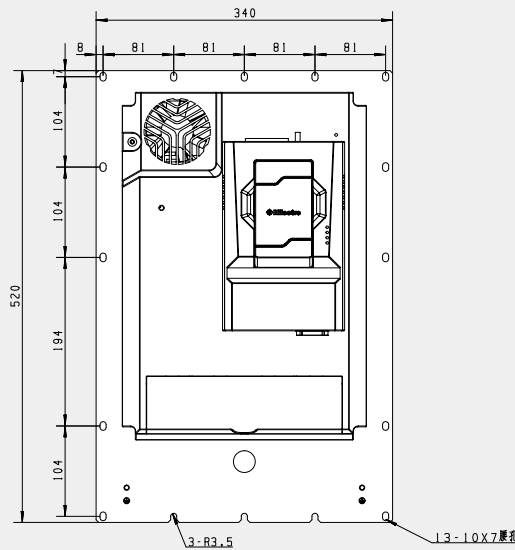
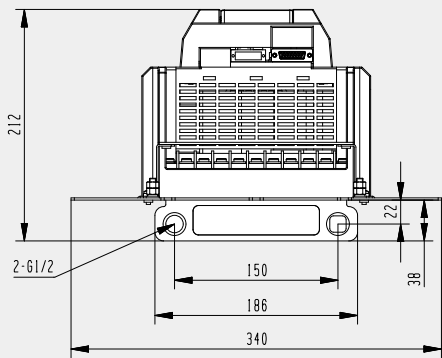
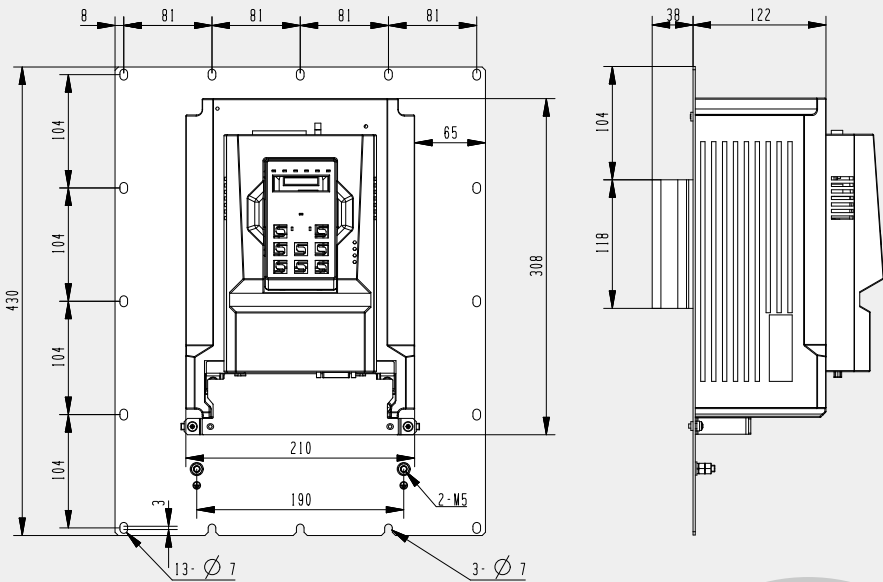
Hi3*0 series
37-45kW Air Cooling

Model Hi300/360-4 □□□ XXX		037	045
Housing code		5#	
Maximum applicable motor power (kW)		37	45
Output	Rated output capacity (kVA)	50	63
	Rated output current (A)	75	90
	Overload capacity	150%, 60s 200%, 1s (switching frequency 2kHz)	
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)	
	Maximum output frequency (Hz)	400	
Input	Power supply equipment capacity (kVA)	69	83
	Voltage range (V)	3 phases, 380 ~ 480	
	Allowable frequency fluctuation (Hz)	50/60 ± 5%	
	Allowable voltage fluctuation	-15% ~ +10%	
	Rated input current (A)	83	99

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.



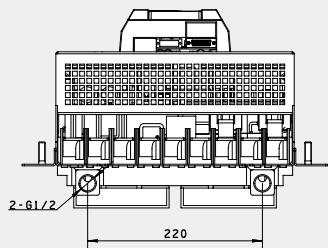
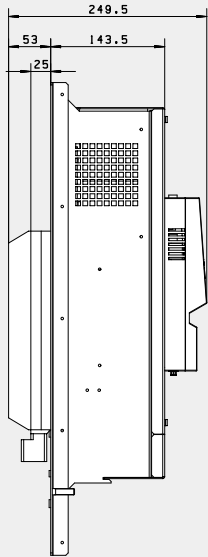
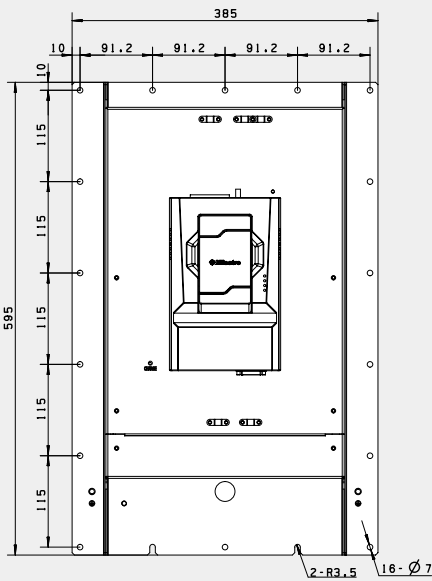
Hi3*0 series
55-75-90kW Liquid Cooling

Model Hi300/360-4 □□□ XXX		055	075	090
Housing code		6#		
Maximum applicable motor power (kW)		55	75	90
Output	Rated output capacity (kVA)	80	104	125
	Rated output current (A)	115	150	180
	Overload capacity	150%, 60s 200%, 1s (switching frequency 2kHz)		
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)		
	Maximum output frequency (Hz)	400		
Input	Power supply equipment capacity (kVA)	106	137	165
	Voltage range (V)	3 phases, 380 ~ 480		
	Allowable frequency fluctuation (Hz)	50/60 ± 5%		
	Allowable voltage fluctuation	-15% ~ +10%		
	Rated input current (A)	127	165	198

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.



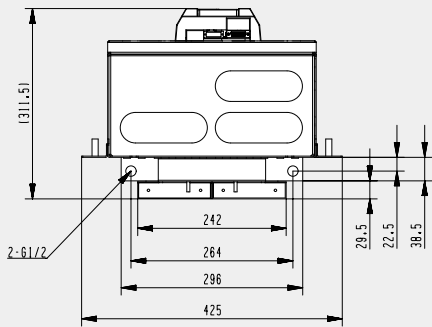
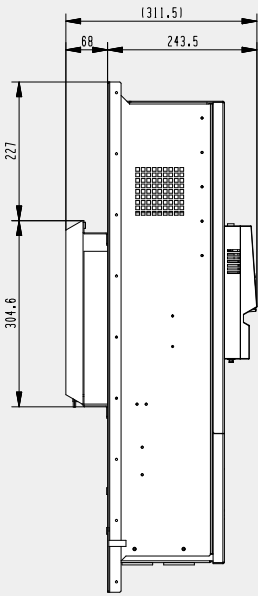
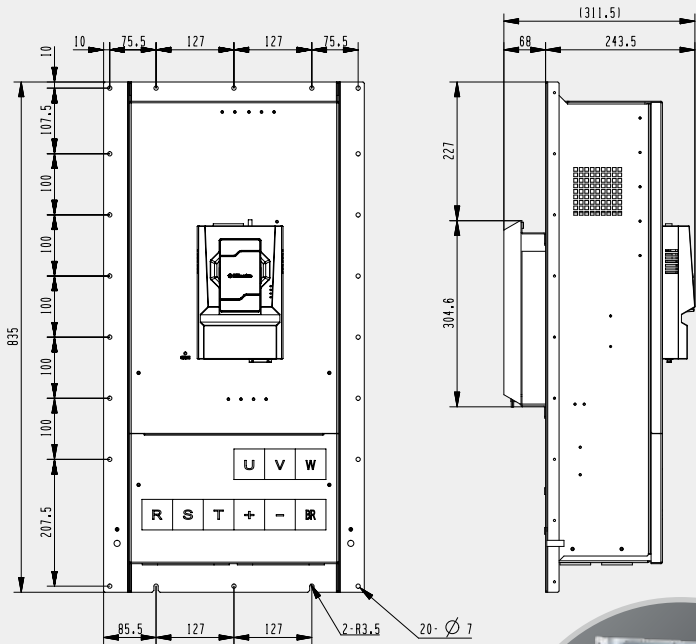
Hi3*0 series
110-132-160kW Liquid Cooling

Model Hi300/360-4 □□□ XXX		110	132	160
Housing code		7#		
Maximum applicable motor power (kW)		110	132	160
Output	Rated output capacity (kVA)	139	165	198
	Rated output current (A)	210	250	300
	Overload capacity	150%, 60s		
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)		
	Maximum output frequency (Hz)	400		
Input	Power supply equipment capacity (kVA)	177	210	252
	Voltage range (V)	3 phases, 380 ~ 440		
	Allowable frequency fluctuation (Hz)	50/60 ± 5%		
	Allowable voltage fluctuation	-15% ~ +10%		
	Rated input current (A)	231	275	330

Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: The above table shows the drive ratings at a switching frequency of 4kHz.

If the switching frequency is increased, the output capability of the drive will decrease.



Hi3*0 series
200-250-315kW Liquid Cooling

Model Hi300/360-4 □□□ XXX		200	250	315
Housing code		8# B		
Maximum applicable motor power (kW)		200	250	315
Output	Rated output capacity (kVA)	256	319	395
	Rated output current (A)	370	460	570
	Overload capacity	150%, 60s (above 20Hz)		
	Maximum voltage range (V)	3 phases, 380 ~ 480(following input voltage)		
	Maximum output frequency (Hz)	400		
Input	Power supply equipment capacity (kVA)	294	369	456
	Voltage range (V)	3 phases, 380 ~ 480		
	Allowable frequency fluctuation (Hz)	50/60 ± 5%		
	Allowable voltage fluctuation	-15% ~ +10%		
	Rated input current (A)	385	483	598

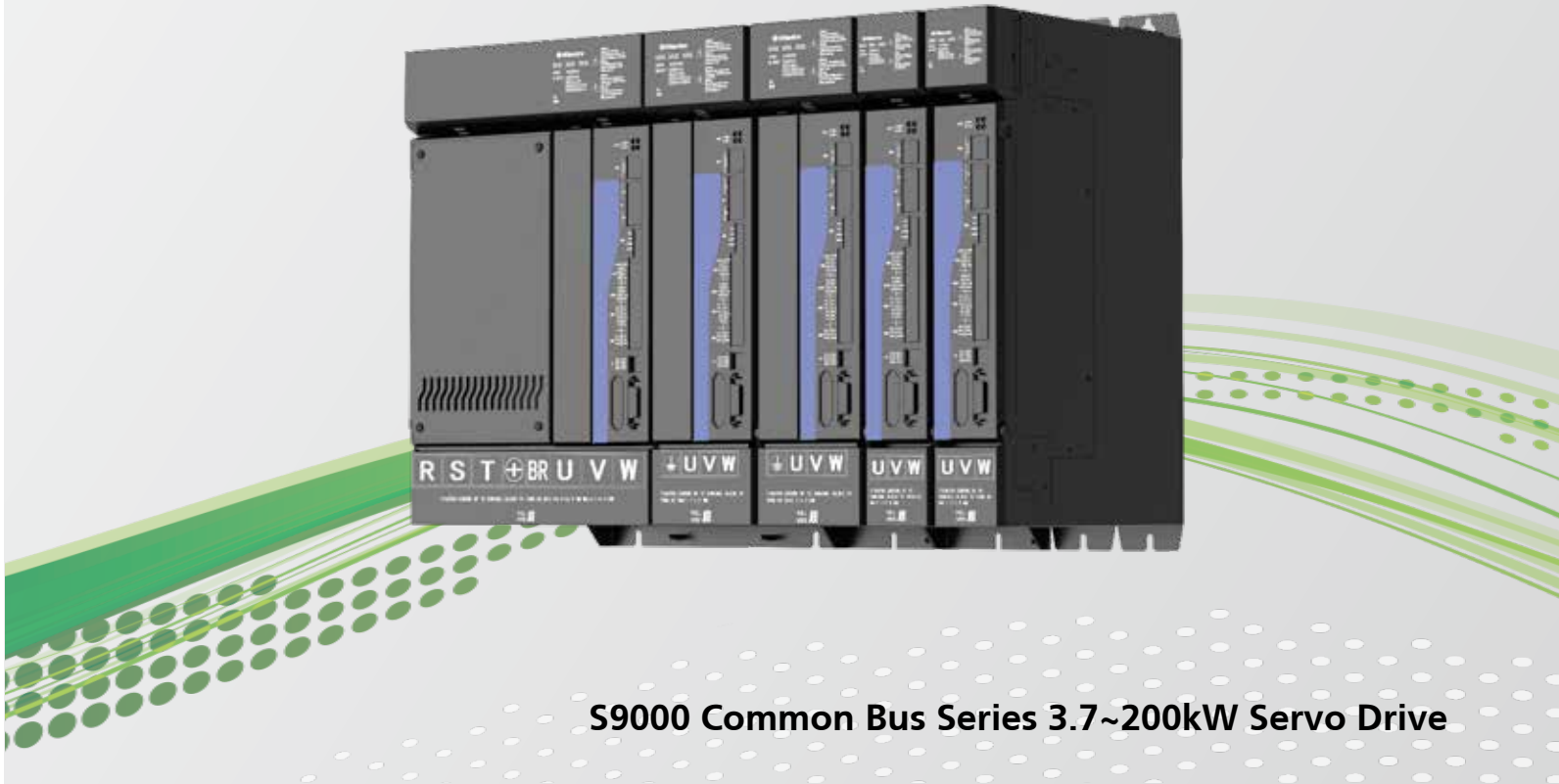
Note 1: When the grid voltage is 480V, the rated drive current requires derating to 85%.

Note 2: Except for the 315kW unit in housing #8B, the above table shows the drive ratings at a switching frequency of 4kHz. If the switching frequency is increased, the output capability of the drive will decrease.

Note 3: For the 315kW liquid cooling unit in housing #8B, to achieve a maximum overload capacity of 150% for 60 seconds, the required switching frequency is 2kHz, and the minimum cooling requirements are an inlet oil temperature of 45°C and a flow rate of 15L/min.

At a switching frequency of 4kHz, the overload capacity is 125% for 60 seconds.

When the cooling conditions are an inlet oil temperature of 55°C and a flow rate of 30L/min, the overload capacity will decrease.

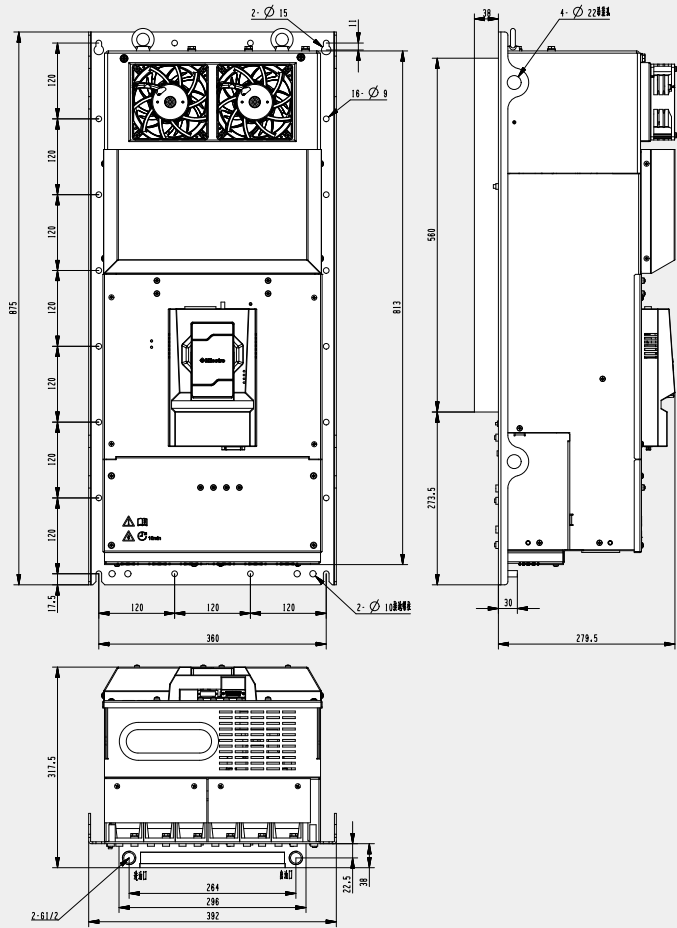


S9000 Common Bus Series 3.7~200kW Servo Drive



S9000 Drive Product Features

- > Compact Design:
Book-style stacking design saves up to 20% of installation space.
- > High Performance & Versatility:
High instantaneous overload capacity and high-precision control support multiple encoders and rich communication protocols. It comes with abundant I/O interfaces and built-in multiple control modes.
- > Energy Efficiency Improvement:
Common busbar energy recycling reduces the number of braking resistors, lowering system costs.
- > Flexible Expansion:
Rectifier and inverter can be freely combined according to application scenarios.
- > High Reliability:
Rigorous industrial-grade testing, imported key components, sufficient design margin for core parts, with CE, UL, and STO certifications in progress.

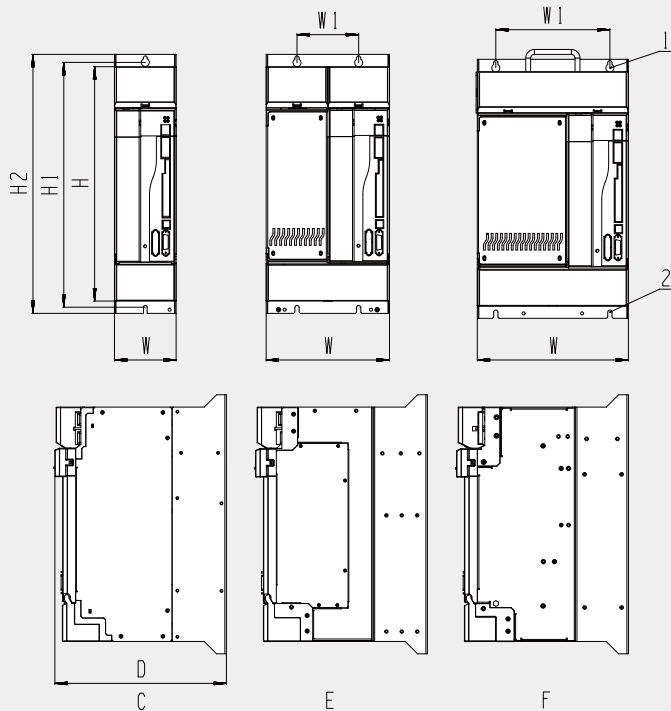


S9000-F series

Rectifier-Inverter - Backplane Air Cooling

Model S9000-F4T □□□ S*E-TN-XXX		060	090	120	180
Housing code		C	E	F	
Cooling method		Backplane Air Cooling			
Maximum applicable motor power (kW)		30	45	55	75
Inverter	Rated output capacity (kVA)	42	63	84	125
	Rated output current (A)	60	90	120	180
	Maximum RMS current (A)	120	180	240	360
	Overload capacity	150% (≥ 5Hz) , 60s; 200%, 1s			
	Output voltage range (V)	0~Rectified input voltage			
	Rated switching frequency (kHz)	4		2	
	Maximum output frequency (Hz)	400			
Power supply	Power supply equipment capacity (kVA)	50	69	92	138
Rectifier	Rated voltage (V)	3 phases, 380 ~ 480			
	Allowable frequency fluctuation (Hz)	50/60±5%			
	Allowable voltage fluctuation (V)	-15% ~ +10%			
	Rated input current (A)	66	99	132	198

Note: Through-Wall air cooling is also available for enclosures C, E, and F. Please contact sales if required.

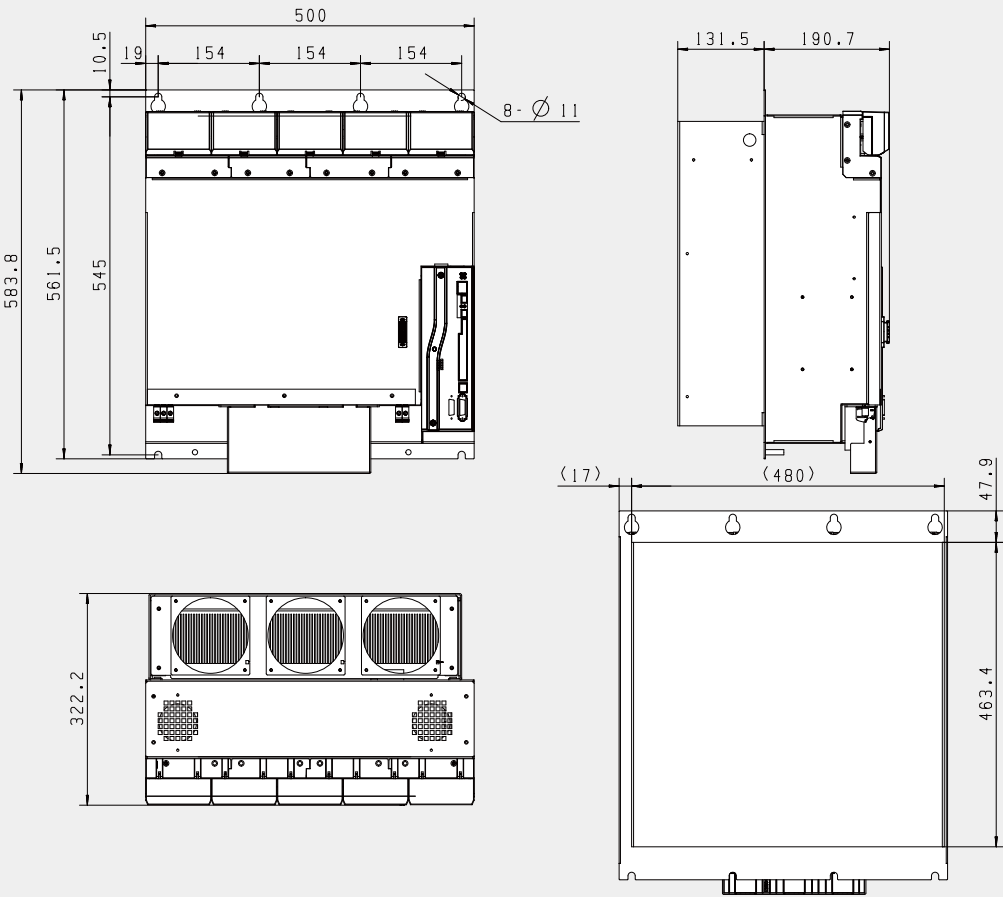


Housing code	Overall dimensions (mm)				Mounting dimensions (mm)		Mounting hole diameter (mm)	
	H2	H	W	D	W1	H1	1	2
C	420	380	100	280	-	397	φ13	φ6
E	420	380	200	280	100	397	φ13	φ7
F	420	380	245	280	185	397	φ13	φ7

S9000-T series

Inverter - Through-Wall Air Cooling

Model S9000-T4T397VKE-TN-XXX		397
Housing code		K
Cooling method		Through-Wall Air Cooling
Maximum applicable motor power (kW)		200
Inverter	Rated output capacity (kVA)	261
	Rated output current (A)	397
	Maximum RMS current (A)	794
	Overload capacity	150% (≥ 5Hz) , 60s; 200%, 1s
	Output voltage range (V)	0~Rectified input voltage
	Rated switching frequency (kHz)	4
	Maximum output frequency (Hz)	400
Power supply	Power supply equipment capacity (kVA)	287



S9000-T series

AFE - Through-Wall Air Cooling

Model S9000-T4T320AKE-TN-XXX		320
Housing code		K
Cooling method		Through-Wall Air Cooling
Rated regenerative power (kW)		200
AFE	Rated voltage (V)	3 phases, 380
	Allowable frequency fluctuation (Hz)	50/60 ± 5%
	Allowable voltage fluctuation (V)	-15% ~ +10%
	Continuous regenerative current (A)	320
	Overload regenerative capability	150%, 60s; 200%, 1s
	Rated switching frequency (kHz)	4

Note: Backplane air cooling is also available for enclosure K. Please contact sales if required.

NOTE:



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