

unisine

HIGH PERFORMANCE FREQUENCY INVERTER

● FD500 ● FD500S ● FD20



FGI SCIENCE AND TECHNOLOGY CO., LTD.

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Company Introduction

Founded in 1970, FGI Science and Technology Co., Ltd., is a leading national high-tech state-owned enterprise, specializing in the research, development, production, sales and service of frequency inverters, medium voltage drive, Static Var Generator (SVG), explosion-proof products (inverters & SVGs) and energy storage products.

As the core manufacturer of industrial automation products in China, FGI has established itself as a trusted manufacturer in the market. With over 900 dedicated professional staffs and a self-owned industrial park spanning 170,000m², we proudly became a public listed company in 2021, further solidifying our commitment to excellence.

We look forward to the opportunity of working together and achieving mutual success.

No.1

In 2023, FGI was honored by the Chinese Ministry of Industry and Information Technology (MIIT) as the 1st manufacturer of high-voltage Static Var Generators (SVGs) in China.

 **170,000** m²

Covering an area of
170,000 square meters.

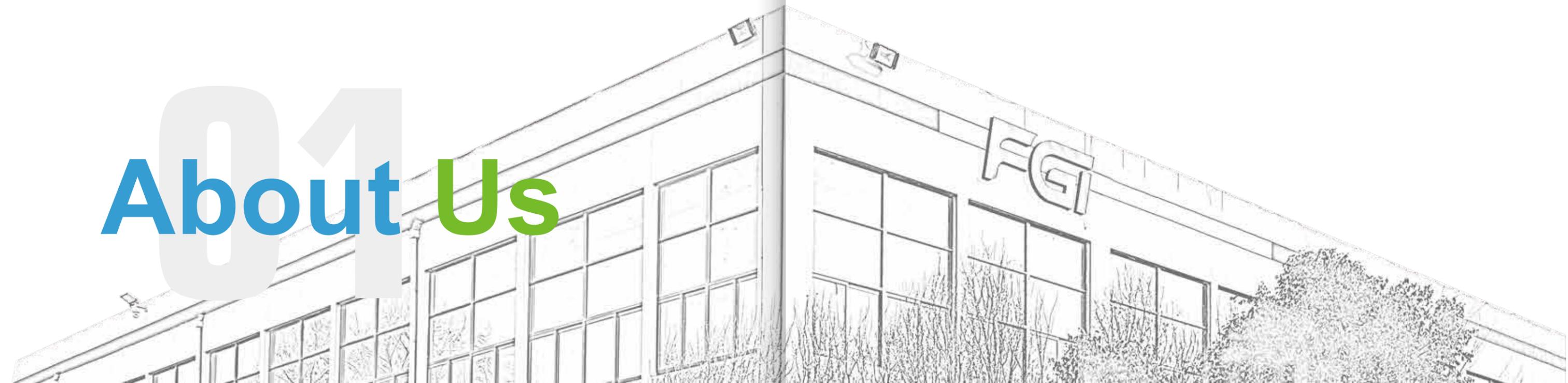
 **100,000** m²

Factory building area
100,000 square meters.

 **200,000⁺** PCS

Annual production capacity
of 200,000 PCS.

About Us



02

Introduction of FD500

FD500/FD500S series inverter is a high-performance inverter developed and designed by our company based on a new hardware and software platform. It integrates the control function of synchronous motor and asynchronous motor, and its excellent vector control performance can realize the integration of torque control and speed control, and can run stably under various complex conditions.

Built-in a variety of application macros, such as PID, multi-pump control, constant pressure water supply, etc. Independent air duct design, thickening circuit board coating, can adapt to all kinds of harsh working conditions.

①

Narrow structure design

②

220~690V 0.75~560kW

③

High performance High reliability



High-performance vector universal platform, a new motor control algorithm.

FD500 supports asynchronous motor, open loop and closed loop control.

FD500S supports permanent magnet synchronous motor, open loop and closed loop control.

Independent core algorithm, precise torque, excitation decoupling, excellent dynamic response performance.

Full series book design, maximum saving installation space

Comprehensive thermal simulation design to ensure the rationality of hardware layout

New air duct design, full series of DC fan heat dissipation, safe and reliable

Software and hardware modular design requirements, strong expansion ability

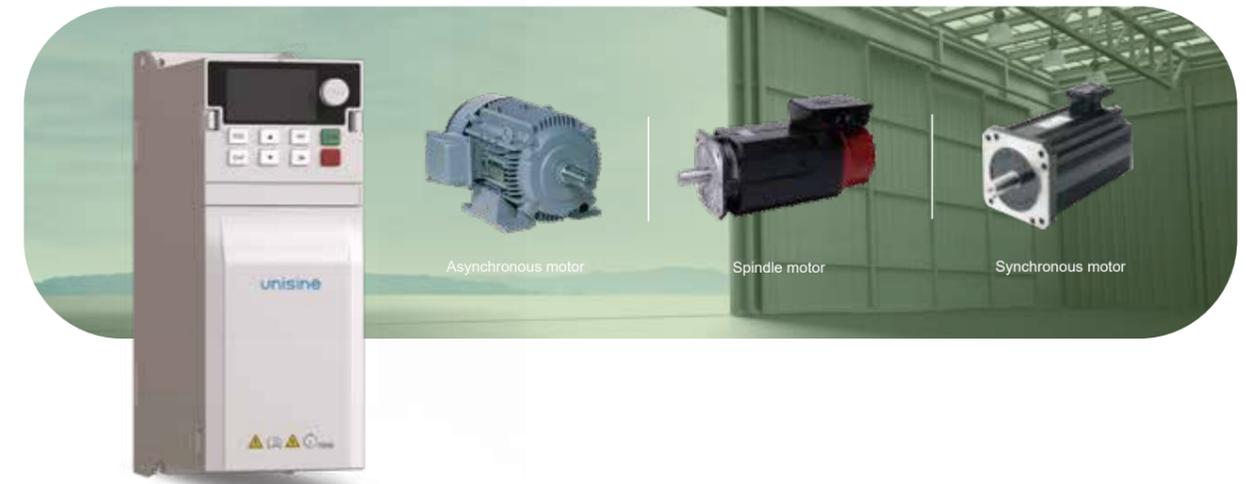
Comprehensive expansion interface, rich accessories selection, covering a variety of applications

Optimized and convenient keyboard design, while supporting the new dual display external keyboard

The whole machine three-proof design, PCB spraying three-proof paint, to ensure the stability and reliability of the product

2.2.1 Support a variety of motors, load types

Compared to other inverters can only drive relative to the motor, the FD500 series can drive a variety of motor types, such as: ordinary asynchronous motor, variable frequency motor, AC asynchronous servo motor, permanent magnet synchronous motor, high-speed motor and electric spindle.

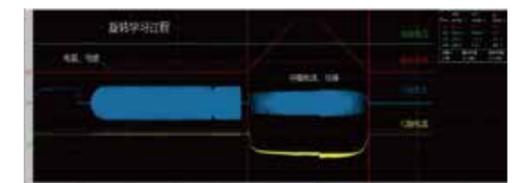


2.2.2 Motor parameters self-learning

Whether it is rotating or stationary motor self-learning, the motor parameters can be accurately obtained, convenient debugging, simple operation, providing higher control accuracy and response speed.

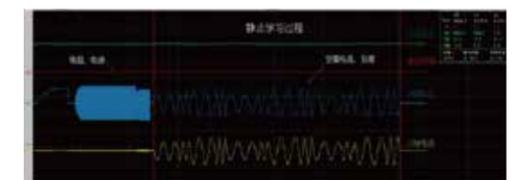
Static self-learning

It is suitable for the requirements that the load cannot be removed and the accuracy is not too high



Spin self-learning

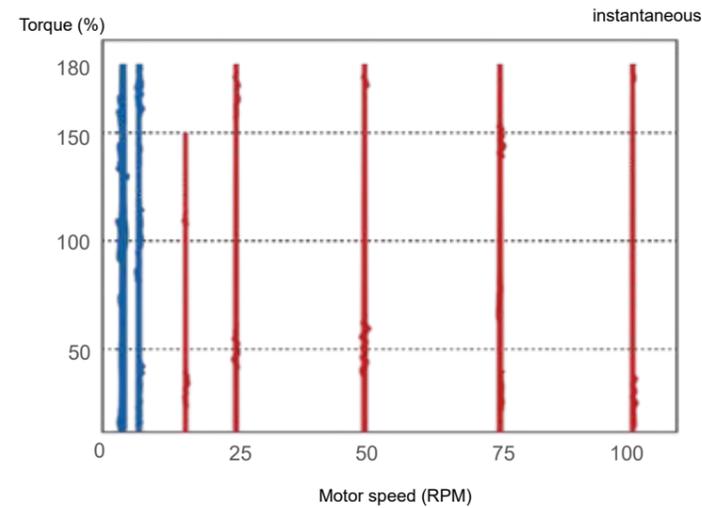
Unload self-learning, suitable for high control accuracy requirements of the occasion



2.2.3 Low frequency high torque, improve equipment low speed control performance

Whether it is rotating or stationary motor self-learning, the motor parameters can be accurately obtained, convenient debugging, simple operation, providing higher control accuracy and response speed.

— Closed loop vector control for induction motors
 — Open loop vector control, suitable for induction motors



Starting torque: SVC, 0.5Hz 150%;
 FVC, 0.0Hz 180%
 Torque control accuracy: ±5%
 Torque response time: ≤40ms

2.2.4 Software current limiting, torque limiting function, properly cope with the current impact

In some rapid acceleration sites (such as CNC lathes) and impact sudden loading and unloading loads (such as brick making machines), very large impact currents will be generated during operation. Input of overcurrent suppression function, The frequency converter can automatically extend the acceleration time or limit the frequency rise to avoid overcurrent alarm and ensure the continuous operation of the system.

For occasions requiring rapid acceleration, the V/F control can appropriately increase the "over-loss quick acting current"; For vector control, the "speed control torque upper limit" can be increased. But oversized The set value is easy to cause the frequency converter to alarm "overload" or "fast current limiting" fault.

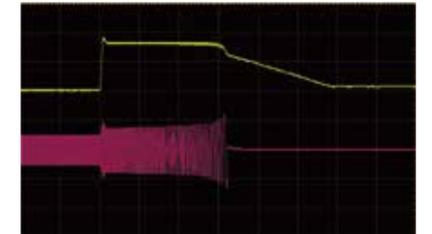


2.2kW frequency converter suddenly loads 150% current waveform at 1Hz

2.2.5 The overvoltage suppression is enabled to perfectly suppress the bus voltage rise

In some constant-speed power generation loads (such as oilfield pumping units) and impact sudden loading and unloading loads (such as high-power punches), it is easy to cause overvoltage failure during operation.

Overvoltage suppression function can avoid the system in the case of no brake unit or brake resistance, relying on the frequency converter itself to accurately suppress the bus voltage, to adjust the operating frequency and acceleration and deceleration time, consume too high bus voltage, to avoid the frequency converter alarm or damage.



2.2.6 Overexcitation braking function to assist quick shutdown

In the case of partial inertia shutdown, the braking resistance can be not increased, and the over-excited braking function can realize rapid braking, improving the product usability. Overexcitation braking function effectively inhibits the bus voltage rise during deceleration process, avoids the frequency converter overvoltage failure, and realizes fast braking.



Overexcitation braking function is invalid



Overexcitation braking function is effective

ED500 Series Frequency Inverter

FGI SCIENCE AND TECHNOLOGY CO., LTD.



Hardware Structure Characteristics

2.3

2.3.1 Structural layout optimization design

Electronic devices and radiator air duct separation design, including capacitors, MOS tubes, relays to strengthen protection, body fully sealed design, improve product environmental resistance

Wide tooth surface heat dissipation, high wind speed design, to ensure the frequency converter heat dissipation capacity

2.3.2 Stringent device selection standards

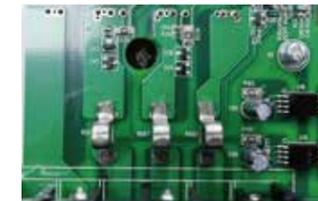
Reliable device channels, reasonable device use



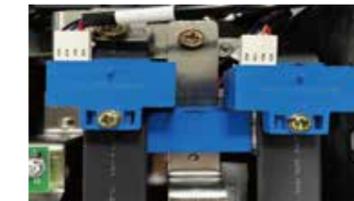
Product Reliability

2.3.3 Full range of three phase current detection

- Three-phase current detection, vector control faster response, higher control accuracy;
- Provide quick and timely protection for output phase loss and imbalance to prevent motor overheating damage;
- Enhance the protection ability of the motor to the ground short circuit to ensure the safety of the electrical system.



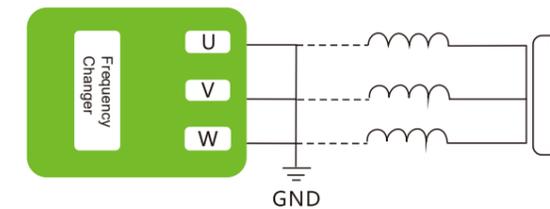
Low-power model



Medium and high power models

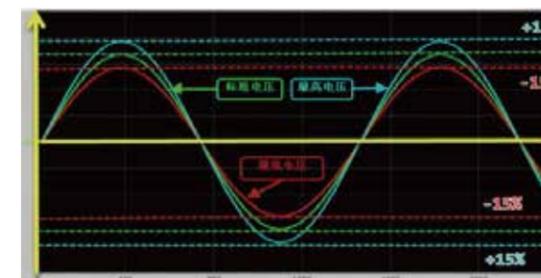
2.3.4 Innovative motor short circuit detection function

In the process of power-on, the inverter will first carry out a motor short-circuit detection to the ground; During operation, an interphase short circuit detection will be carried out first, and once a short circuit is found on the output side, the output will be blocked immediately to provide reliable protection for the motor and equipment.



2.3.5 Wide voltage range design

The allowable fluctuation range of the input voltage is $\pm 15\%$ of the rated voltage, which can be protected from the influence of voltage fluctuations when used to meet the harsh grid environment



- Rated voltage: 3PH AC 380-480 V
- Rated frequency: 50/60Hz

Product Model Description

2.4

Function description		Specification
Power input	Input voltage (V)	Three Phase: AC 220V / 380V / 480V / 660V / 690V Single Phase: AC 220V
	Allow transient voltage fluctuations	-15% ~ +10%
	Input current (A)	Please refer to "4.6 Selection guide"
	Input frequency (Hz)	50Hz or 60Hz, allowing range 47Hz to 63Hz
Power output	Output voltage (V)	0~ Input voltage
	Output current (A)	Please refer to "4.6 Selection guide"
	Output power (kW)	Please refer to "4.6 Selection guide"
	Output frequency (Hz)	0~500Hz
Technical control performance	Control mode	Space voltage vector control mode, no PG vector control mode
	Motor type	Asynchronous motor
	Speed regulation ratio	Asynchronous machine 1:200 (no PG vector control)
	Speed control accuracy	±0.2% (no PG vector control)
	Speed fluctuations	±0.3% (no PG vector control)
	Torque response	<20ms (no PG vector control)
	Torque control accuracy	±10% (no PG vector control)
	Overload capability	150% / 60s; 180% /3s; 200% / 0.5s
Run control performance	Frequency setting mode	Digital setting, analog setting, pulse frequency setting, multi-step running setting, simple PLC setting, PID setting, communication setting, etc. It can realize the combination of settings and the switch of setting channels.
	Automatic voltage adjustment function	When the grid voltage changes, it can automatically keep the output voltage constant
	Fault protection function	Provide a variety of fault protection functions: over current, over voltage, under voltage, over temperature, lack of phase, overload etc. protection function
	Speed tracking restart function	To achieve smooth start of the rotating motor without impact

Function description

Specification

Peripheral interface	Terminal analog input resolution	Not greater than 20mV
	Terminal digital input resolution	Not greater than 2ms
	Analog input	22kW and below: Standard with 1 channel AI: 0~10V/0(4) ~20mA, 2 inputs can be extended
		22kW above: Standard with 2 channels AI:0~10V/0(4) ~20mA,
	Analog output	22kW and below: Standard with 1 channel AO: 0~10V/0(4) ~20mA, 1 output can be extended
		22kW above: Standard with 2 channels, AO:0~10V/0(4) ~20mA
	Digital input	22kW and below: standard with 4 ordinary inputs, maximum frequency 1kHz, internal impedance: 3.3kΩ 1 high speed input, maximum frequency 50kHz, 5 inputs can be extended
		22kW and above: Standard with 8 inputs, 1 of which can be used as high-speed pulse input (HDI)
	Digital output	22kW and below: standard with 1 HDO terminal, 1 DO collector open output can be extended
		22kW above: Standard with 2 multi-function collector outputs, 1 of which can be used as high-speed pulse output (HDO).
Relay output	22kW and below: Standard with 1 programmable relay output, 1 relay output can be extended	
	22kW above: Standard with 2 programmable relay outputs Common contact capacity: 3A/AC250V, 1A/DC30V	
Expansion interface	1 expansion interface: can connect I/O card, incremental encoder, rotary transformer, sine-cosine encoder, PT100/1000 card, phase sequence card Note: Only one type of card can be connected	
Other	Installation method	Support wall mounted; floor mounted two ways
	Operating ambient temperature	10°C to 50°C, derated above 40°C for use
	Level of protection	160kW and below IP20; 185kW and above IP00
	Pollution level	Level 2
	Cooling method	0.75kW (included) or more: forced air cooling

Product Specifications

2.5

FD500 – 022G – 4 – B – L1 – 1

① ② ③ ④ ⑤ ⑥

①	Product series abbreviation	FD500: FD500 series general purpose inverter FD500S: FD500S series inverter(PM motor control) FD20: FD20 series mini-size inverter
②	Power range	1R5G: 1.5kW 022G: 22kW 315G: 315kW
③	Voltage class	6: AC 3PH 660V to 690V 4: AC 3PH 380V to 480V 2: AC 3PH 220V S2:AC 1PH 220V
④	Brake unit	None: Without built-in brake unit B: Built-in brake unit (1) ≤37kW, standard build-in (2) 45kW-110kW optional for build-in (3) ≥132kW, external brake unit
⑤	Reactor configuration	Default: None L1: Built-in DC reactor, suitable for 45kW to 500kW models. Note: 45kW~500kW is optional DC reactor.
⑥	Expansion card types	1: I/O card 2: PG card 3-6: reserved



Selection Guide

2.6

Rated parameters of AC 3PH 380V~480V models

Inverter model	Output power (kW)	Input current (A)	Output current (A)
FD500-0R7G-4-B	0.75	3.4	2.5
FD500-1R5G-4-B	1.5	5	3.7
FD500-2R2G-4-B	2.2	6	5.3
FD500-4R0G-4-B	4	15	9.5
FD500-5R5G-4-B	5.5	20	13
FD500-7R5G-4-B	7.5	27	17
FD500-011G-4-B	11	35 (35)	25
FD500-015G-4-B	15	44 (44)	32
FD500-018G-4-B	18	46 (46)	38
FD500-022G-4-B	22	54 (54)	45
FD500-030G-4-B	30	75 (56)	60
FD500-037G-4-B	37	90 (69)	75
FD500-045G-4	45	108 (101)	92
FD500-055G-4	55	142 (117)	115
FD500-075G-4	75	177 (149)	150
FD500-090G-4	90	200 (171)	180
FD500-110G-4	110	240 (205)	215
FD500-132G-4	132	278 (235)	250
FD500-160G-4	160	310 (296)	305
FD500-185G-4	185	335 (320)	330
FD500-200G-4	200	385 (368)	380
FD500-220G-4	220	430 (411)	425
FD500-250G-4	250	465 (444)	460
FD500-280G-4	280	540 (485)	530
FD500-315G-4	315	605 (550)	600
FD500-355G-4	355	655 (600)	650
FD500-400G-4	400	660	720
FD500-450G-4	450	745	820
FD500-500G-4	500	800	860

Note:
Rated output current is defined as the output current when the output voltage is 380V.
The data given in the "Input current" column is the measured value at 380V voltage; The data in parentheses "()" indicates the measured value when the DC reactor is configured.

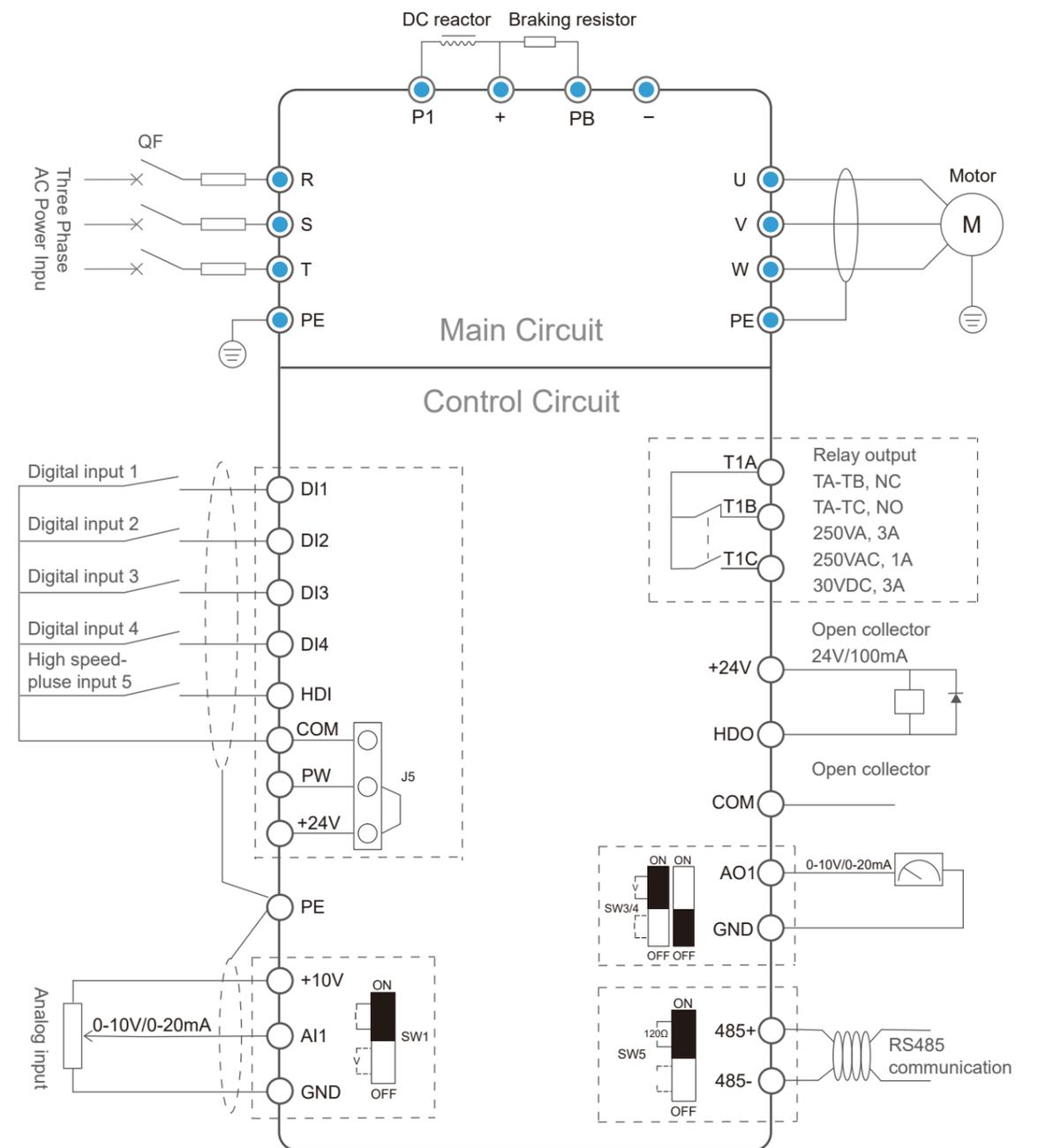
Rated parameters of AC 3PH 660V/690V models

Inverter model	Output power (kW)	Output current (A)
FD500-045G-6	45	52
FD500-055G-6	55	63
FD500-075G-6	75	86
FD500-090G-6	90	98
FD500-110G-6	110	121
FD500-132G-6	132	150
FD500-160G-6	160	175
FD500-185G-6	185	198
FD500-200G-6	200	218
FD500-220G-6	220	240
FD500-250G-6	250	270
FD500-280G-6	280	320
FD500-315G-6	315	350
FD500-355G-6	355	380
FD500-400G-6	400	430
FD500-450G-6	450	485
FD500-500G-6	500	540
FD500-560G-6	560	600



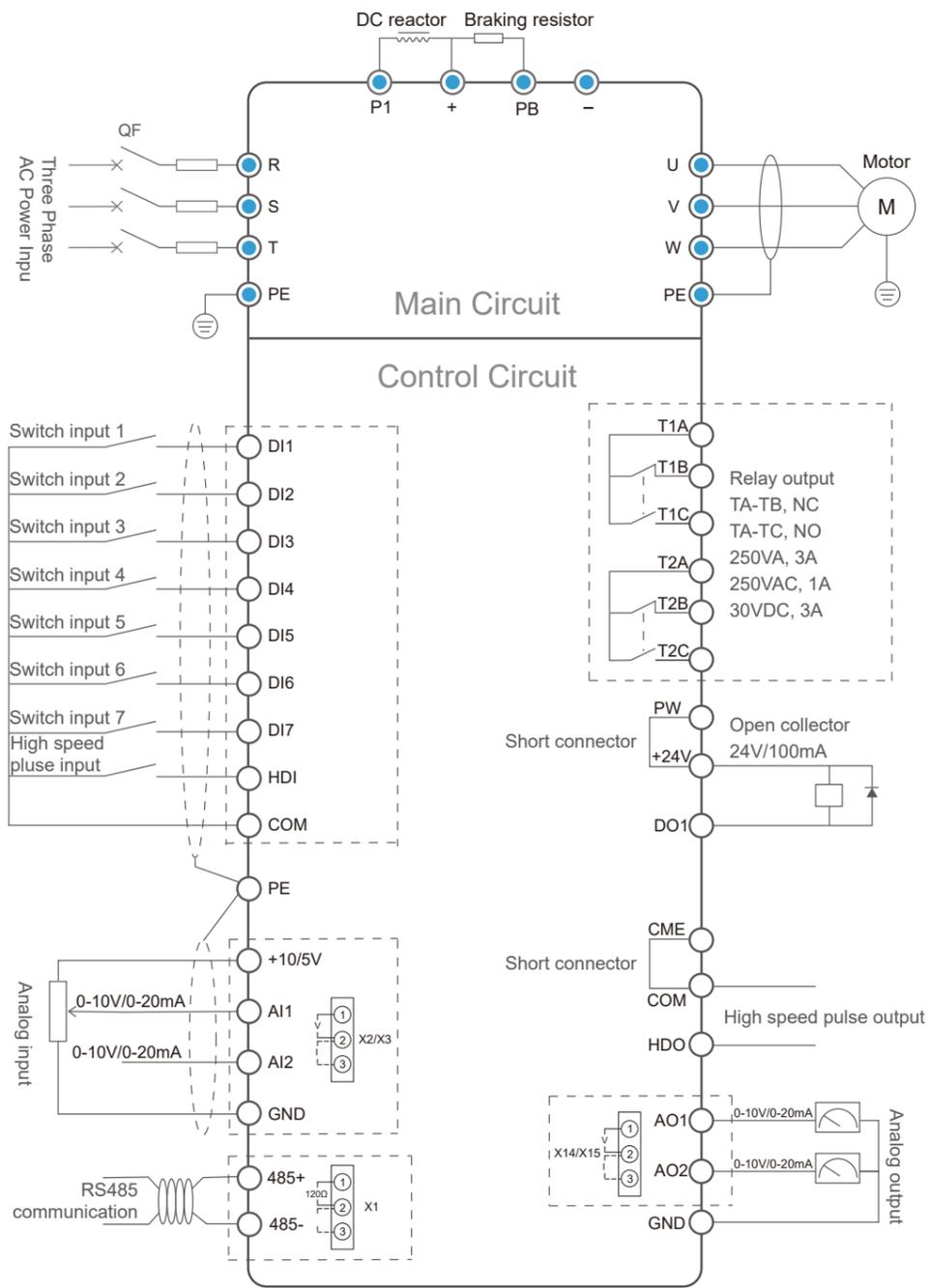
Standard Wiring of Control Circuit

2.7



Wiring diagram of ≤22kW models

0.75~22kW standard build-in braking unit.

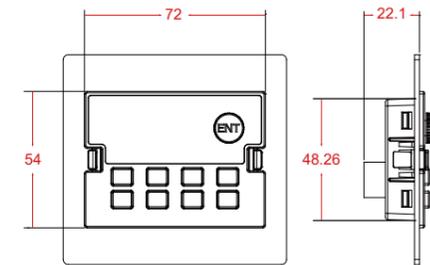


Wiring diagram of ≥30kW models

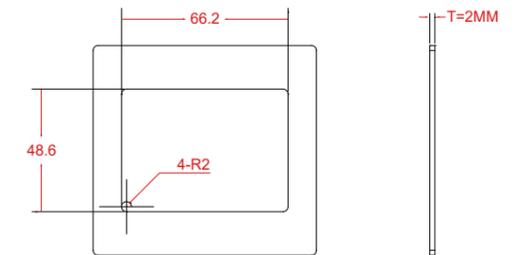
1: 30~37kW standard build-in braking unit.

2: 45~110kW optional for build-in braking unit.

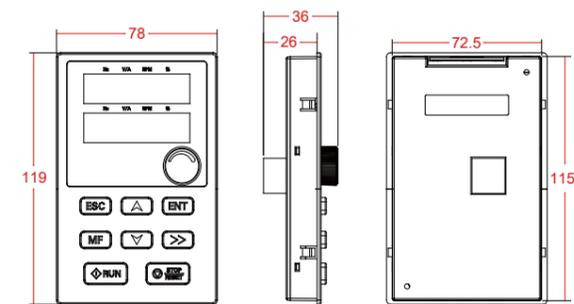
Keypad Appearance and Dimensions



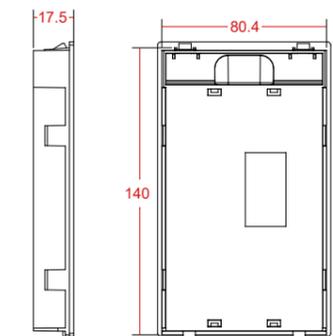
Keypad appearance and dimensions of 22kW below (unit: mm)



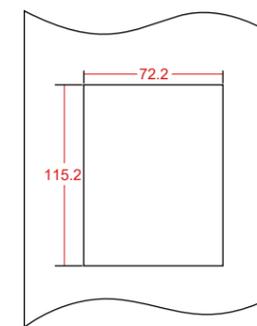
Dimensions of an external opening hole for a keypad of 22kW below (unit: mm)



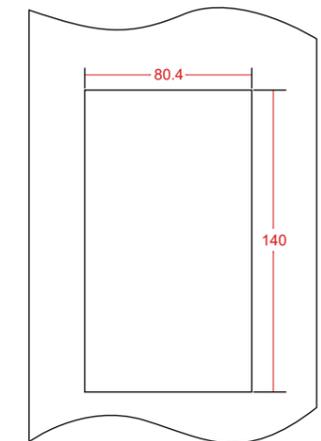
Appearance and dimensions of a keypad of 22kW above (unit: mm)



Dimensions of the external keypad bracket of 22kW above (unit: mm)



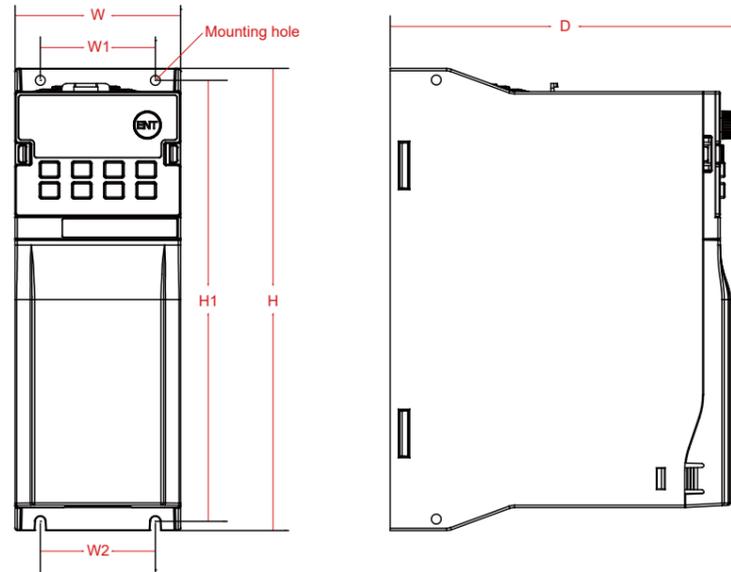
Dimensions of opening holes on the operation panel (keypad)



Dimensions of opening holes on the operation panel support (keypad tray)

Frequency Converter Appearance and Dimensions

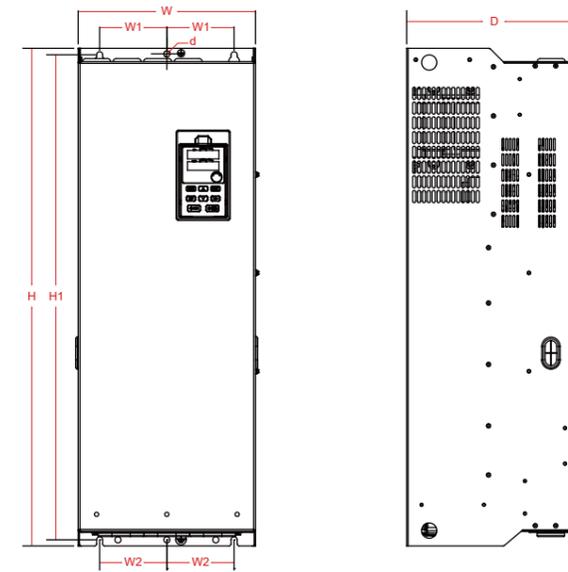
2.9



Appearance of 0.75~22kW wall mounting

Dimensions of 380V~480V 0.7 to 22kW wall mounting

Inverter specifications	Overall dimensions (mm)			Mounting hole position (mm)			Mounting aperture	Set screws
	W	H	D	H1	W1	W2		
0.7~2.2kW	72	200	150.5	190.8	50	50	ø 4	M4
4~7.5kW	100	240	160.5	230.8	70	70	ø 4	M4
11~15kW	120	330	172.5	321.5	111	107	ø 4	M4
18.5~22kW	142	383	227.5	373.5	120	129	ø 4	M4



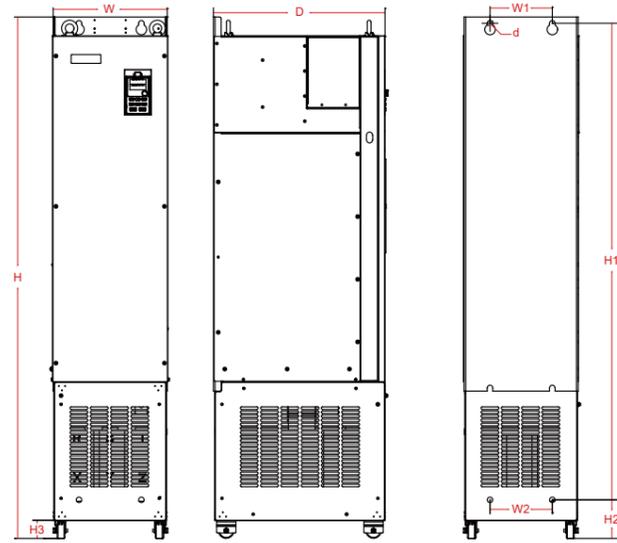
Appearance of ≥30kW wall mounting models

Dimensions of 380V~480V 30~500kW wall mounting

Inverter specifications	Mounting dimensions without base (mm)						Mounting aperture	Set screws
	W	H	D	W1	W2	H1		
30-37kW	172	430	230	140	140	412	Φ 7	M6
45-55kW	210	500	270	150	150	480	Φ 10	M10
75-110kW	290	810	285	110	110	790	Φ 10	M10
132-160kW	315	970	310	125	125	940	Φ 12	M12
185-220kW	360	995	480	180	180	953	Φ 18	M18
250-315kW	370	1194	550	200	200	1164	Φ 18	M18
355-500kW	410	1500	550	200	200	1470	Φ 18	M18

Dimensions of 660V / 690V 45~560kW wall mounting

Inverter specifications	Mounting dimensions without base (mm)						Mounting aperture	Set screws
	W	H	D	W1	W2	H1		
45-132kW	290	810	285	110	110	790	Φ 10	M10
160-185kW	315	970	310	125	125	940	Φ 12	M12
200-250kW	360	995	480	180	180	953	Φ 18	M18
280-355kW	370	1194	550	200	200	1164	Φ 18	M18
400-560kW	410	1500	550	200	200	1470	Φ 18	M18



Appearance of floor mounting models

Dimensions of 380V~480V to 75~315kW floor mounting

Inverter specifications	Mounting dimensions with optional base (mm)								Mounting aperture
	W	H	D	W1	W2	H1	H1	H3	
75kW~110kW	290	1248	285	110	110	815	422	53	Φ 10
132kW~160kW	315	1408	310	125	125	970	422	53	Φ 12
185kW~220kW	360	1460	480	180	180	1315	118	57	Φ 18
250kW~315kW	370	1665	550	200	200	1520	123	57	Φ 18

Dimensions of 660V / 690V 45~355kW floor mounting

Inverter specifications	Mounting dimensions with optional base (mm)								Mounting aperture
	W	H	D	W1	W2	H1	H1	H3	
45-132kW	290	1248	285	110	110	815	422	53	Φ 10
160-185kW	315	1408	310	125	125	970	422	53	Φ 12
200-250kW	360	1460	480	180	180	1315	118	57	Φ 18
280-355kW	370	1665	550	200	200	1520	123	57	Φ 18

Optional Accessories for Frequency Converter

2.10

Imported LED/LCD keyboard

Newly designed keyboard with superior operability. Both built-in keyboard and external keyboard support double-line 5-bit display; LCD keyboard optional



I/O expansion card

It can expand 5 switch input DI, 2 analog input AI, and 1 analog input AO, 1 relay output TA/TB/TC, 1 collector open circuit output DO



PG expansion card

Support incremental encoder, sine-cosine encoder, rotary transformer type; 5-24V power supply, differential signal input, supports a maximum frequency of 200kHz.



Profibus expansion card

Profibus Fieldbus communication expansion card for the frequency converter to connect to the DP bus as a slave device.



Filter

Input filter: suppress the electromagnetic interference transmitted by the frequency converter to the public power grid through the input power line. Install it as close as possible to the input terminal side of the frequency converter.

Output filter: To suppress the interference generated from the wiring of the output side of the inverter, install it as close as possible to the output terminal of the inverter.



Electric reactor

Input reactor: suitable for improving the input power factor of the inverter and suppressing high order harmonic current.

Output reactor: used to extend the effective transmission distance of the inverter and effectively suppress the instantaneous high voltage generated when the IGBT module of the inverter is switched.



03

Introduction of FD20



1 High overload capacity
150% / 60s 180% / 3s

2 High Start torque
0.25Hz/150% (SVC) 1Hz/150%(V/f)

3 Multi functions
PID Multi-step speed Constant water supply

4 Communication
Standard Modbus-RTU



▶◀ Compact Structure

High Performance

Product Standards and Specifications

3.1

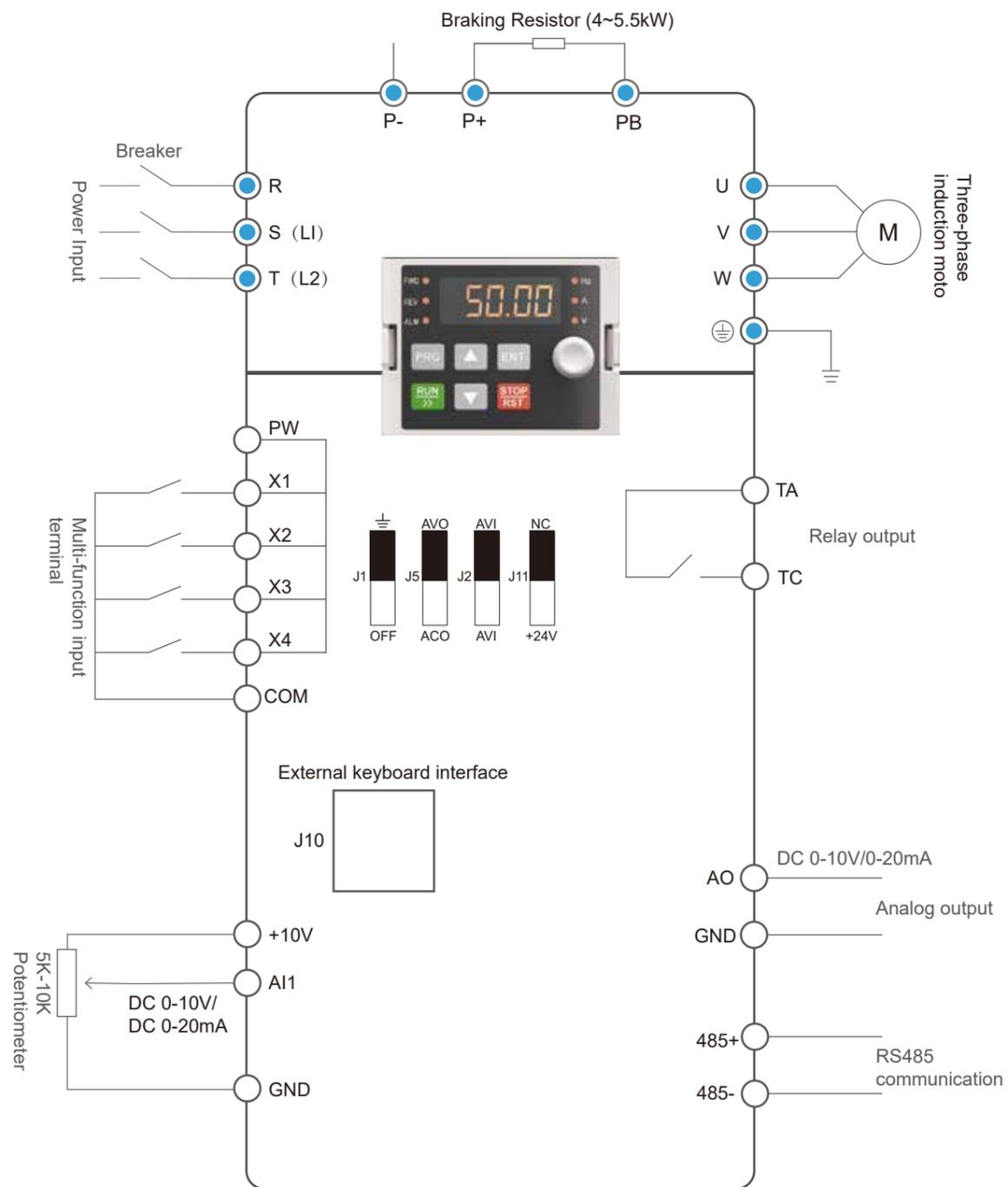
Technical Regulation

Input	Rated voltage, frequency	Three Phase: AC 220V / 380V; 50/60Hz Single Phase: AC 220V; 50/60Hz	
	Voltage allowable variation range	-15%~10%	
Output	voltage	0~input voltage	
	Frequency	Vector control: 0~500Hz V/F control: 0~500Hz	
	Overload capacity	G type: 150% rated current for 60s; 180% rated current for 3s. P type: 120% rated current for 60s; 150% rated current for 3s.	
Control mode		V/f control, sensorless vector control (SVC), close-loop vector control	
Control characteristics	Frequency setting Resolution	Analog input	Maximum frequency ×0.025%
		Digital setting	0.01Hz
	V/f control	V/f curve	Three modes: linear; multi-point; N-th power V/F curve (1.2th power, 1.4th power, 1.6th power, 1.8th power, 2nd power)
		V/f separation	2 modes: full separation, half separation
		Torque boost	Manual setting: 0.0~30.0% of rated output Automatic boost: Automatically determine the boost torque based on the output current and combined with the motor parameters
		Automatic current and voltage limiting	Whether in acceleration, deceleration or stable operation, it can automatically detect the motor stator current and voltage, and suppress them within the allowable range based on a unique algorithm to minimize the possibility of system fault tripping.
		non-sensing vector control	Voltage frequency characteristic
Torque characteristics			
Motor parameter self-determination	Automatic detection of parameters in both static and dynamic motor conditions for optimal control without any limitations.		
Control characteristic	Current and voltage suppression	Full current closed-loop control, completely avoiding current impact, with perfect overcurrent and overvoltage suppression function	
	Undervoltage suppression during operation	Especially for low grid voltage and frequent fluctuations in grid voltage, the system maintains the longest possible operating time based on unique algorithms and residual energy allocation strategies, even when the voltage is below the permissible range.	

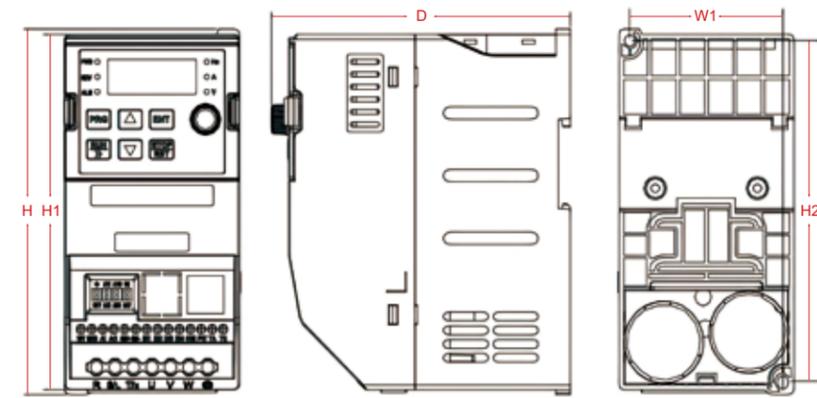
Technical Regulation

Typical functions	Multi-speed and pendulum operation	16-segment programmable multi-step speed control, multiple operation modes are optional. Pendulum frequency operation: preset frequency, center frequency adjustable, state memory and recovery after power failure	
	PID control RS485 communication	Built-in PID controller (presentable frequency), standard configuration RS485 communication function	
	Frequency setting	Analogue input	DC voltage 0~10V, DC current 0~20mA (upper and lower limits selectable)
		Digital input	Operation panel setting, RS485 interface setting, UP/DOWN terminal control, can also be combined with analogue inputs for a variety of settings
	Output signal	Digital output	1 programmable relay output (TA,TC), up to 58 kinds of meaning selection
		Digital input	1 analogue signal output, the output range is set flexibly between 0-20mA or 0-10V, which can achieve the output of physical quantities such as set frequency and output frequency.
	Automatic voltage stabilization	Dynamic voltage stabilization, static voltage stabilization and no voltage stabilization can be selected according to the need to obtain the most stable operation effect	
	Acceleration and deceleration time setting	0.0s~6500.0s can be set continuously, S-type and linear mode can be selected.	
	Brakes	Energy consumption brakes	Continuously adjustable energy braking start voltage, return voltage and energy braking rate
		Direct current (D.C.) brakes	Stopping DC braking starting frequency: 0.00~[F00.10] maximum frequency Braking time: 0.0~100.0s; braking current: 0%~100% rated current
Low noise operation	The carrier frequency is continuously adjustable from 0.5KHz to 16.0KHz to minimize motor noise.		
RPM tracking speed Restart function	Smooth restarting of the motor during operation and restarting after an instantaneous stop can be realized.		
Counters	One internal counter for easy system integration		
Operational functions	Upper and lower limit frequency setting, frequency jumping operation, reversing operation limitation, rotational frequency compensation, RS485 communication, frequency incremental and decremental control, fault self-recovery operation and so on.		
Display	Operational state	Output Frequency, Output Current, Output Voltage, Motor Speed, Set Frequency, Module Temperature, PID Setting, Feedback, Analogue Inputs and Outputs, etc.	
	Operation Panel Display	Alarm content Output frequency, set frequency, output current, output voltage, DC voltage, module temperature, power-on time, running time and other 8 operating parameters are recorded when there are three fault trips.	
Protection function		Over-current, over-voltage, under-voltage, module failure, electronic thermal relay, overheating, short-circuit, input and output phase loss, abnormal motor parameter tuning, internal memory failure, etc.	
Environment	Ambient temperature	-10℃~+40℃ (When the ambient temperature is 40℃~50℃, please use it at a reduced rating)	
	Ambient humidity	5%~95%RH, no condensation	
	Ambient environment	Indoors (no direct sunlight, no corrosion, no flammable gas, no oil mist, dust, etc.)	
	Altitude	Derate for use above 1000 meters, 10% for every 1000 meters increase	
Structure	Protection level	IP20	
	Cooling method	Air cooling, with fan control	
Installation method		Wall-mounted, cabinet-mounted	

Control Circuit Wiring Diagram 3.2

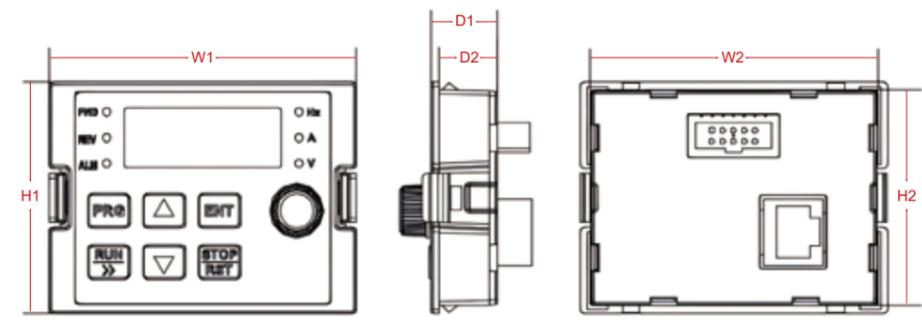


Chassis and Keyboard Dimensions 3.3



Dimensions

Model	Installation Dimensions		External dimensions				Mounting holes(mm)
	H2	W1	H	H1	W	D	
0.4~2.2kW, 220V/380V	136.5	63	147	142	72	123.1	4
4~5.5kW, 380V	172.5	78	185	182	87	144.4	4



Keyboard Installation Dimensions

Keyboard form factor and cutout dimensions				Keyboard Height	
W1	H1	W2	H2	D1	D2
72	54	67.4	50.4	15.7	13.9

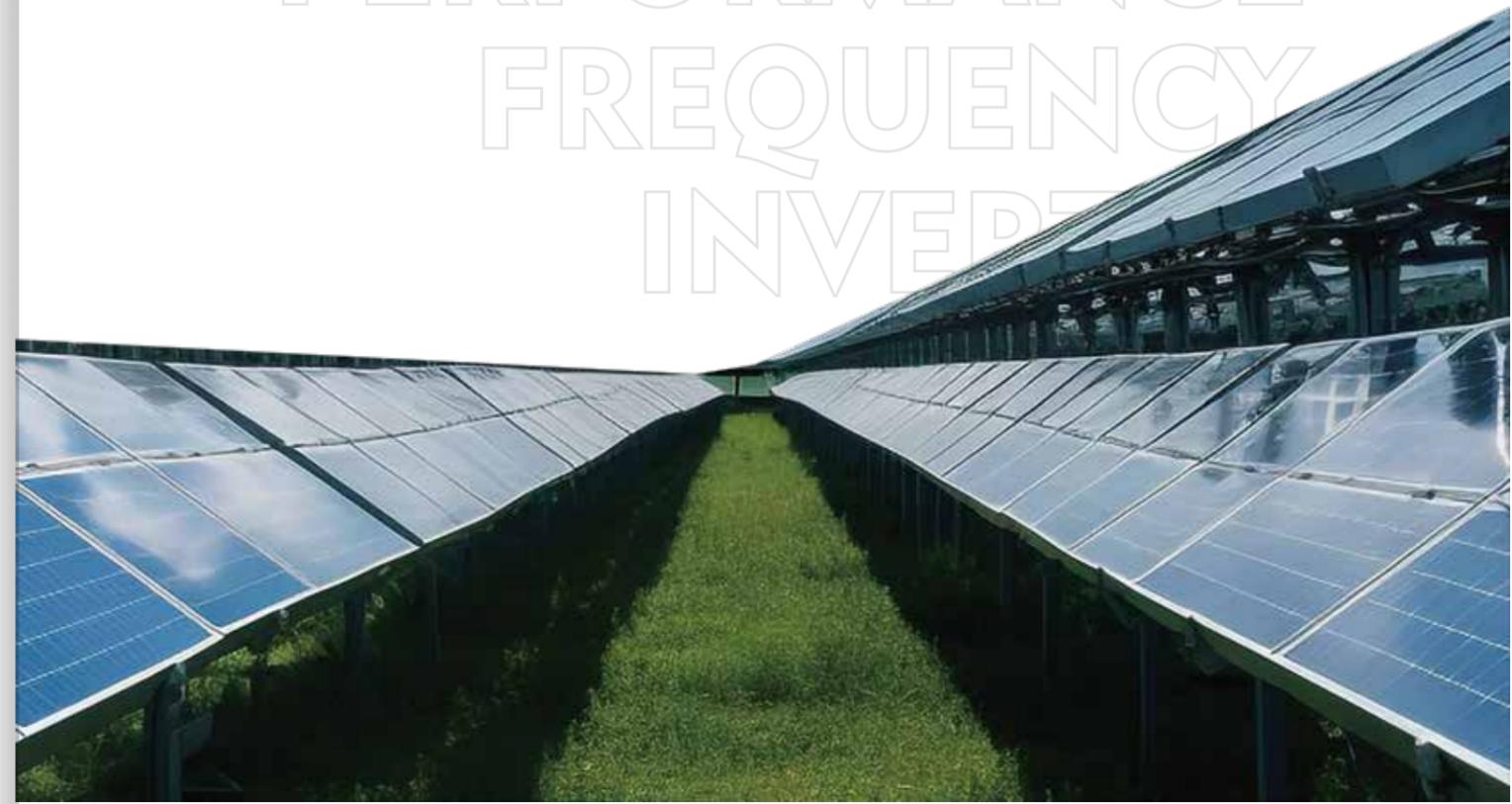
Product Features 3.4



Model Selection Table 3.5

Voltage	Single phase	Three phase	
	220V	220V	380V
Power (kW)	Current (A)	Current (A)	Current (A)
0.4	2.3	2.3	-
0.75	4	4	2.1
1.5	7	7	3.8
2.2	9.6	9.6	5.1
4			8.5
5.5			13

HIGH PERFORMANCE FREQUENCY INVERTER



04

Typical Applications



> Electrical Cable



> Petroleum machinery



> Wood-working machine



> Plastic machinery



> Fan, pump



> Numerical control machine tool