SHENZHEN K-EASY AUTOMATION CO.,LIMITED

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Version: A01

K-DRIVE

Frequency Inverter | Soft Starter

Servo Drive & Motor | PLC Manufacturer

PRODUCT CATALOG

Energy efficient, Beautiful environment

ABOUT K-DRIVE

Energy efficient, Beautiful environment

Shenzhen K-EASY Automation Co., Ltd. is a leading automation solution provider headquartered in Shenzhen, China. The company has a rich and successful history, which makes it a trusted name in the industry. K-EASY Automation was founded in 2010 by Candy Liu, a senior entrepreneur with a profound background in automation technology. It was originally a small company, focusing on providing customized automation solutions for global markets. K-Easy Automation's vision is to help companies optimize production processes and increase efficiency, and its innovative and reliable solutions have quickly gained recognition. In the early days of the company's establishment, it mainly focused on serving the local market in Guangdong. However, due to increasing demand for its products and services, the company soon expanded its operations to other parts of China. This marks the first major milestone in the development of K-Easy Automation. To meet the growing demand for automation solutions, the company invests heavily in research and development. As a result, several cutting-edge products and technologies have been launched, further strengthening K-Easy Automation's market position. Including KD100 mini vector frequency inverter, KD600 high performance frequency inverter,KD600E elevator frequency inverter, KD600S general purpose frequency inverter,SP600 solar pump inverter, KSS90 high performance built-in bypass soft starters etc.

Join us, enjoy the business.

The company's commitment to innovation and quality has allowed it to forge partnerships with well-known domestic and foreign companies. As the company continued to thrive, it set its sights on global expansion. K-EASY Automation have been active in the global exhibitions together with our local partners, marking an important step for K-EASY Automation to become a global player in the automation industry. The expansion allows the company to expand into international markets and serve customers in Europe, Asia and other regions.

Over the years, K-Easy Automation has diversified its products and expanded its range of services. Today, the company provides comprehensive automation solutions, including solar pump solution, industrial control, motion control technology, and smart manufacturing solutions. Its customers span various industries, including automotive, electronics, pharmaceuticals and logistics. To further strengthen its global presence and enhance its technical capabilities, K-Easy Automation actively cooperates with academic and research institutions to foster a culture of continuous learning and innovation within the organization.

Looking forward to the future, Shenzhen K-EASY Automation Co., Ltd. will continue to be committed to providing cutting-edge automation solutions to help companies thrive in an increasingly competitive market. With a long history of success and a constant drive to innovate, the company is well-positioned to shape the future of the automation industry.






K-DRIVE WORLDWIDE

K-DRIVE knows that its customers need to locate in growth areas, so we are right there with them when we are required - designing, manufacturing, and servicing our products. Careful consideration of environmental and cultural differences is the key to establishing K-DRIVE as a concerned global citizen.

Our global presence allows us to respond quickly to the needs of our customers. Customers and the industry at large recognize our people as a competitive advantage through their diverse representation of the global community. Additionally, as a company and as employees, we respond to the needs of our local communities by donating our time, talent, and fund.

MAIN MARKET
North America, South America, Western Europe, Eastern Asia, Southeast Asia, Middle East,Africa, Oceania, Worldwide

BUSINESS TYPE
Manufacturer, Exporter

BRANDS
K-DRIVE

NO.OF EMPLOYEES
300~600

ANNUAL SALES
45000000-50000000

YEAR ESTABLISHED
2010

EXPORT P.C
95%-100%


CERTIFICATE OF QUALITY MANAGEMENT SYSTEM CERTIFICATION
K-DRIVE

质量管理体系认证证书
K-DRIVE

CERTIFICATE

CERTIFICATE

CATALOG

K-DRIVE
AC DRIVE

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HELP YOUR SYSTEMS
stay efficient, stable, and energy saving

They have the fundamental features of K-DRIVE drives, enabling our customers to have easy, efficient, stable control of any application powered by an AC motor.
The application would be a fan, pump, convey, compressor, central air-conditioning, centrifuge, CNC, hoist, crane, drawbench, etc.

State-of-the-art technology

A ball mill, crane, elevator such heavy duties request bigger start torque than normal duties, users are able to go to K-DRIVE drives without buying a bigger power rating of other brand. This feature of K-DRIVE drives attribute to its state-of-the-art software technology.

Full load tested

Every piece of the boards, electronic and mechanical components, the finished drives are fully inspected, tested before shipment. What we are doing is to make sure every final drive high quality and performance reliable when it is installed at your site.

Major energy saving

Most of applications have their idle time or do not require full-speed operation sometimes. Using K-DRIVE drives, you possess an opportunity to save major energy, saving your cost for electricity comsumption and you are protecting our living environment for less emission.

ROHS compliant components

Safe and environmental friendly products are our rudimentary consideration before and during development. In additional to meeting electric safety Standards and Regulations like CE, we along with all our suppliers execute RoHS directives for all the products produced by K-DRIVE, a significant benefit for environment and the users' health.

Macro program operation

In applications when you are using K-DRIVE drives, you are able to save some facilities and enable your system more automated and efficient. Every application has its individual requirement across all industries. K-DRIVE drives provided with macro program, option boards and surrounding equipment, make the drives "just for you".

Overall protection

Protections on the motor, surrounding equipment and the drive itself are significant in nowadays industrial control system. K-DRIVE intelligent drives are equipped with a variety of protections like motor thermal protection, overcurrent, overvoltage, overheat, overload protection and so forth. The warnings and faults can be displayed and output via terminals.

PRODUCTION KONG FU

Clean & Tidy

Production environment

⌑ Clean and tidy environment is one of the key factors of good quality products.

100% & 100%

PCB testing

⌑ 100% testing
⌑ 100% pass the testing
⌑ Full automatic testing

Profes sional

IQC testing

⌑ Professional equipment to test the incoming materials.

12hours 50℃

Aging test for PCB boards

⌑ More than 95% brands without this test step.

24hours 50℃

Aging test for finished products

⌑ More stricter than other brands

100% two times

Loading test for small power ratings (≤37kW)

⌑ Test for two times.
1, after manufacturing;
2, after aging test.
⌑ Full automatic testing.

100% two times

Loading test for big power ratings (up to 450kW)

⌑ Test for two times.
1, after manufacturing;
2, after aging test.
⌑ Load current up to 850A.

<0.2%

An unqualified rate during production process

⌑ Less than 0.2%

4000V

Grouped Pulses testing (4,000V without tripping)

⌑ 3,000V is other brands' tripping level.
⌑ Better EMC performance, no failure will be caused by external interferences in normal condition.

10000V

Static Electricity Testing (10,000V without tripping)

⌑ 6,000V is other brands' tripping level.
⌑ No failure will be caused by external static electricity in normal condition.

-30℃~60℃ 10%~95%RH

Constant temperature & constant humidity testing

⌑ Random test, to test the inverters' temperature, humidity, isolation performance.

40±2℃, 93±2%RH PH: 6.5~7.2, 24hours

Salt spray testing

⌑ Random test, to test the inverters' corrosively performance.

0.25Hz/ 180% (SVC)

Torque testing

⌑ Connecting with the real load, to test the inverters' output torque performance at different loads.

4 steps

Four steps to fix a screw

⌑ Adjust standard force to the electric screwdriver
⌑ Fix it with standard force
⌑ Fix it with more power force
⌑ Mark it by red color

well-dis tributed

Heat dissipation adhesive

⌑ Using a metal mesh, to make it well-distributed.
⌑ Better heat dissipation performance than direct brushing.

Isolation layer

Additional isolation layer

⌑ Adding on the capacitor board, to get better isolation performance.

±1g

Keypad button force

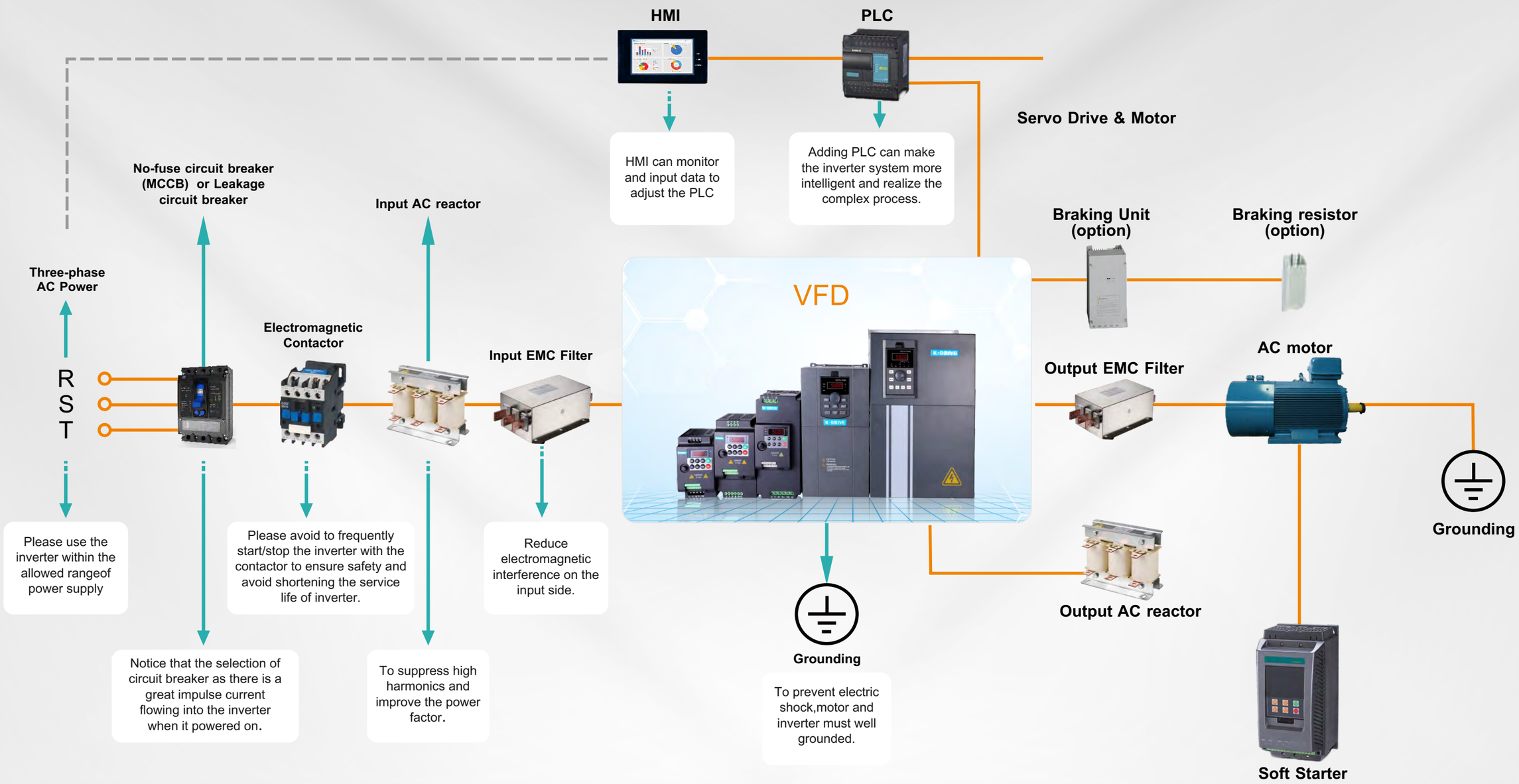
⌑ Standard force is 10g±2g, we request the supplier to make the deviation within ±1g.

Force adjus tment

Force adjustment for electric screwdriver

⌑ Every morning, before production, adjust it to standard force.

PERIPHERAL DEVICES CONNECTION DIAGRAM



Power Rate

1 phase & 3 phase Input
3 phase output

220V (+-20%) 0.4KW~4.0KW
380V (+-20%) 0.4KW~400KW

KD100 Series Mini Vector inveter

KD100 is our new design with the most compact size but good vector Control Mode, Can be easily tuned to simple speed control for 80% Motors,really cheapest price, and good function.. with 24 months warranty offered, it can almost match all customers'requests.

Vector Control | PID | Multi-step Freq. | ModBus | Over-voltage & Over-current stall control | Torque Boost | Wobble Frequency Control | Simple PLC | FDT | ·····

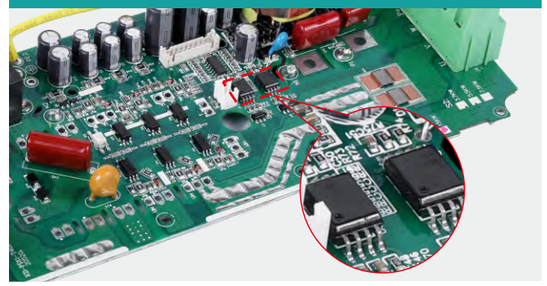
Start Torque@0.5Hz	Overload Capability	Speed accuracy ±	Ambient Temp °C	Speed Regulation	Multi-step speed max.
100%	200%	0.5%	40	1:100	16

FEATURES

EMC grounding design

✧Independent grounding system selection switch (through the screw access or not to choose), easy to solve the problem of EMC interference and leakage current.

Hall Chips Will Be Built In For All Series



✧Hall Chips Will Be Built In For All Series, Which Is Mainly Used For Heavy Loading And Over-Current Protection (95% Factory In China No install this in mini series).

With Hall Chip	Without Hall Chip
Over-Current Protection for 3 Phase for output Motor	Need Software to check Over-Current
—	Protection and only check out 2 phase for output Motor
Protetion Time For Over-Current < 0.001S	Protetion Time For Over-Current < 5~10S
Isolation of primary and secondary sides	X
Strong anti-interference	X
Can use for Vector Control	X

SPECIFICATION

Input & Output

Input voltage	1AC 220~240V(± 15%) 3AC 220~240V(± 15%) 3AC 380~460V(± 15%)
Input frequency	50Hz/60Hz ±5%
Output voltage	0~input voltage, deviation <±3%
Output frequency	0~600Hz

Control Characteristics

Control mode	V/F control Sensor-less vector control Torque control
Speed accuracy	±0,5% (V/F) ±0,2% (SVC)
Speed fluctuation	±0,3% (SVC)
torque response	< 10ms (SVC)
Starting torque	0,5Hz: 150% (V/F) 0,25Hz: 180% (SVC)
Overload capability	150% Rated current -60s 180% Rated current -10s 200% Rated current -1s
Simple PLC Multi-step speed	16 speed External digital signal control Internal clock
PID function	Standard build-in
Communication	Modbus

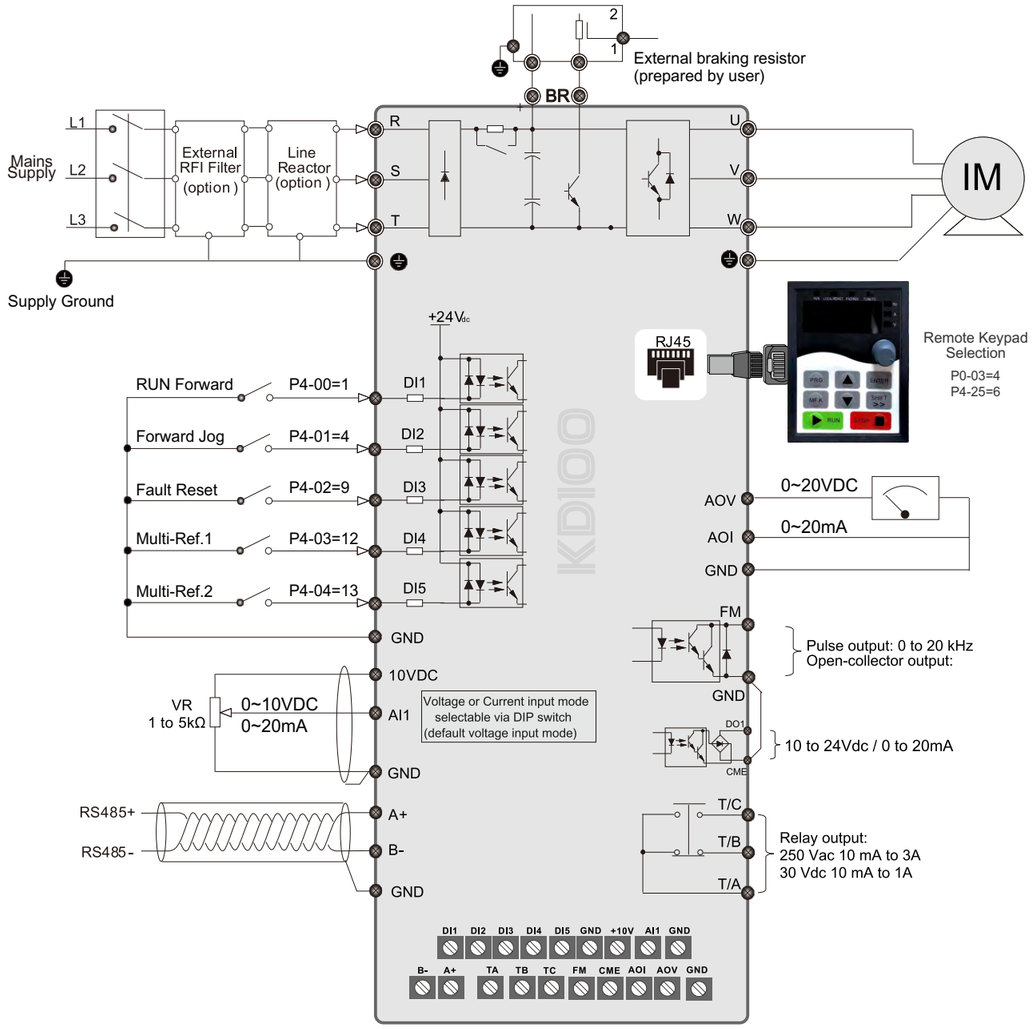
Featured functions

Featured functions	Input &Output delay Flexible parameters display AVR (Automatic Voltage Regulation) Timing control, fixed length control, etc. Simple PLC, 16-steps speed control Torque control build-in S curve acceleration/deceleration Multi-functional programmable keypad V/F separated control

Environment Limitation

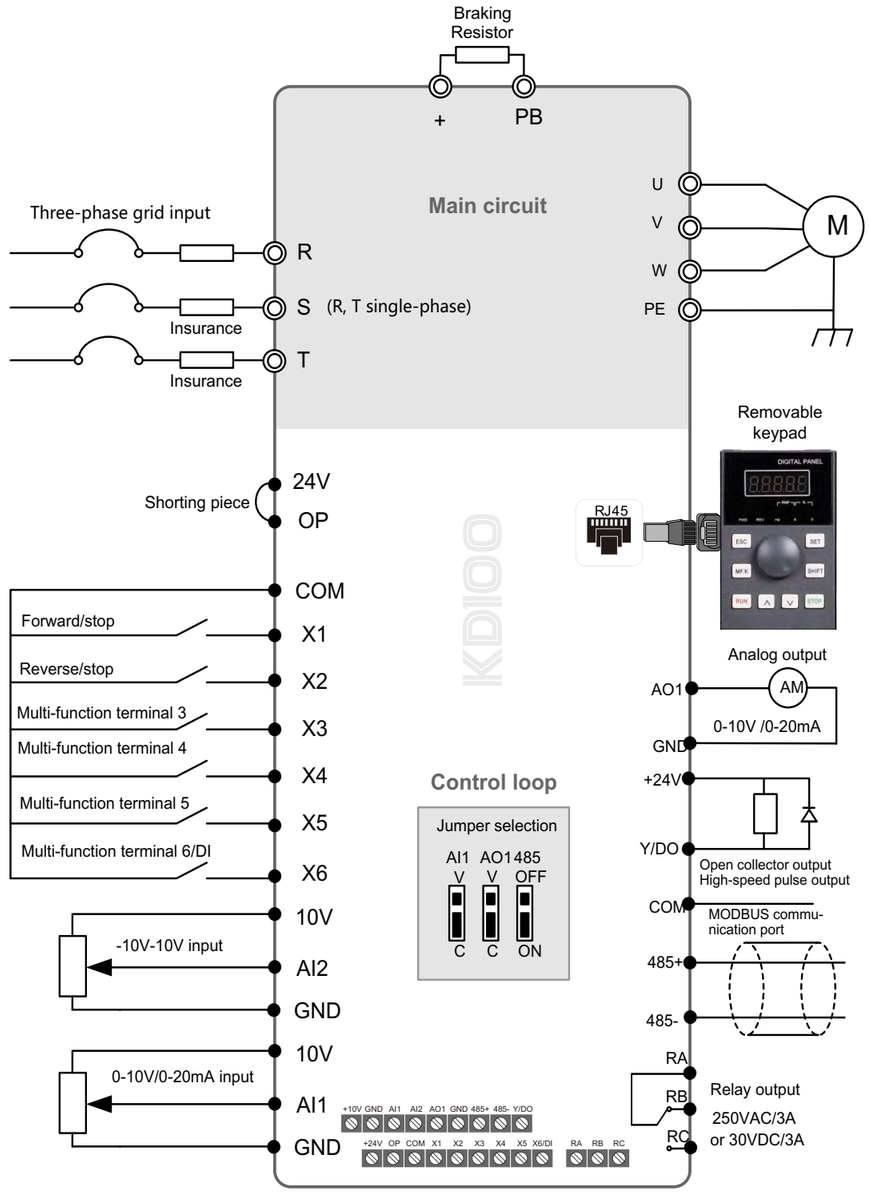
Installation location	Without direct sunlight,free from dust,corrosive gases, oil mist, flammable gases, water vapor, water drop and salt,etc.
Altitude	0~2000m Derated 1% for every 1000m when the altitude is above 1000meters
Ambient temperature	-10°C~50°C (Output derated while the temperature is higher than 40°C)
Storage temperature	-20°C~+70°C
Relative Humidity	5-95% no condensation

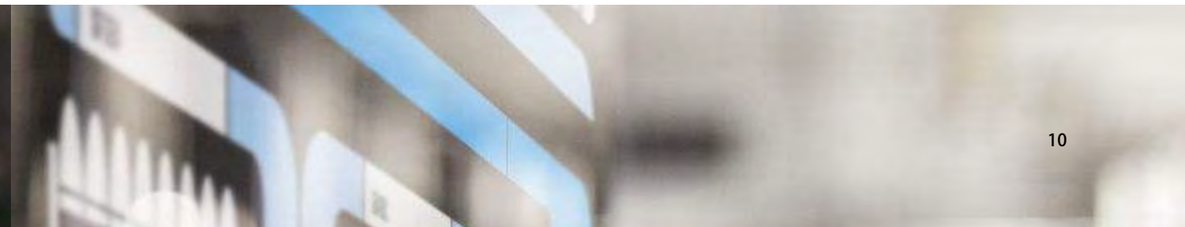
BASIC WIRING DIAGRAM 0.4KW~15KW Main circuit wiring diagram



Terminal	Terminal Name	Terminal	Terminal Name
D1~D5	Digital Input X5	AI1	Analog Input X1
A,B	RS485 X1	TA1,TB1,TC1	Relay Output X1
X5	HDI (High Speed Pulse Input /Output) X1		

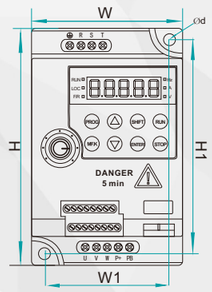
BASIC WIRING DIAGRAM 18.5KW~400KW Main circuit wiring diagram

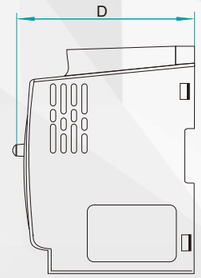




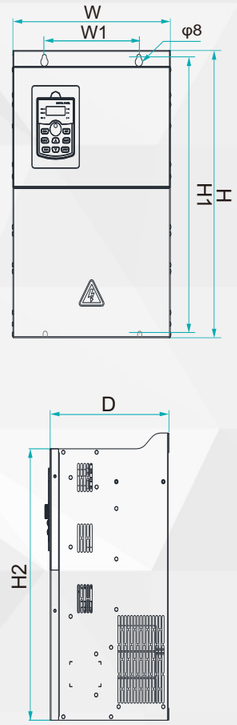
TECHNICAL SPECIFICATION

AC Drive Model	Power Capacity (KVA)	Rated Input Current(A)	Rated Output Current(A)	Dimensions(mm)		
				L	W	H
Input voltage: single-phase 220V Range: -15%~20%						
2S-0.4G	1.0	5.8	2.5	140	85	105
2S-0.7G	1.5	8.2	4	140	85	105
2S-1.5G	3.0	14.0	7	140	85	105
2S-2.2G	4	23.0	9.6	140	85	105
2S-4.0G	6.6	39.0	16.5	240	105	150
2S-5.5G	8	48.0	20	240	105	150
Input voltage: three-phase 380V Range: -15%~20%						
4T-0.7G	1.5	3.4	2.1	140	85	105
4T-1.5G	3.0	5.0	3.8	140	85	105
4T-2.2G	4.0	5.8	5.1	140	85	105
4T-4.0G	5.9	10.5	9.0	180	100	115
4T-5.5G	8.9	14.6	13.0	180	100	115
4T-7.5G	12	20	17	180	100	115
4T-11G	17.7	26	25	240	105	150
4T-15G	24.2	35	32	240	105	150





Model	Installation size (mm)		External size (mm)				Installation Aperture
	W1	H1	H2	H	W	D	
4T-18.5G	120	317	–	335	200	178.2	Φ8
4T-22G							
4T-30G	150	387.5	–	405	255	195	Φ8
4T-37G							
4T-45G	180	437	–	455	300	225	Φ10
4T-55G							
4T-75G	260	750	–	785	395	285	Φ12
4T-90G							
4T-110G							
4T-132G	300	865	–	900	440	350	Φ12
4T-160G							
4T-185G	360	950	–	990	500	360	Φ16
4T-200G							
4T-220G							
4T-250G	400	1000	–	1040	650	400	Φ16
4T-285G							
4T-315G	600	1252	–	1300	815	422	Φ16
4T-355G							
4T-400G							



Power Rate

1 phase & 3 phase Input
3 phase output

220V (+-20%) 0.4KW~4.0KW
380V (+-20%) 0.4KW~400KW

KD600S Series General Pupose inveter

High Quality

✧The hardware design and components selection are more optimized and reasonable;

High Power Density

✧The structure design layout is more compact;

High Performance

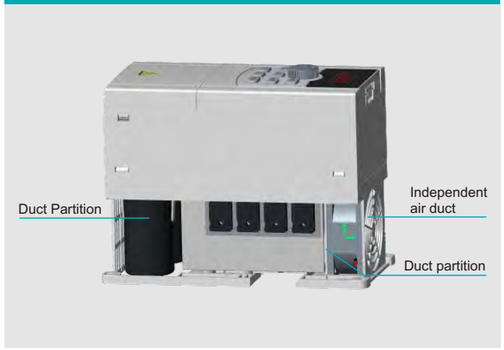
✧The software upgrade is more compatible with the end user, industrial control is more flexible, accurate, and the performance is stronger, and it is more suitable for precision control occasions with higher requirements for torque, control accuracy, and response speed;

Optimize Products User Experience

✧Easy operation, maintainability, environmental protection, scalability and convenience of Int-ernet of Things access.

STRUCTURAL FEATURES

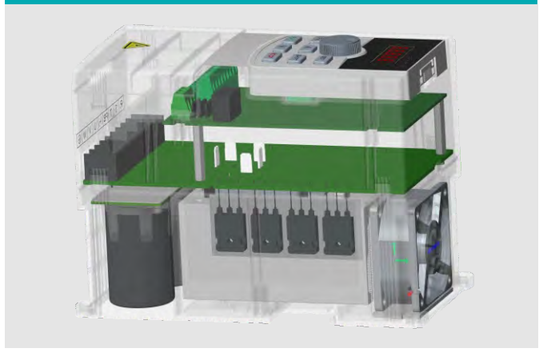
Independent air duct design



✧High protection: completely independent air duct, scientific layout inside the machine, taking into account the heat dissipation of high-power devices.

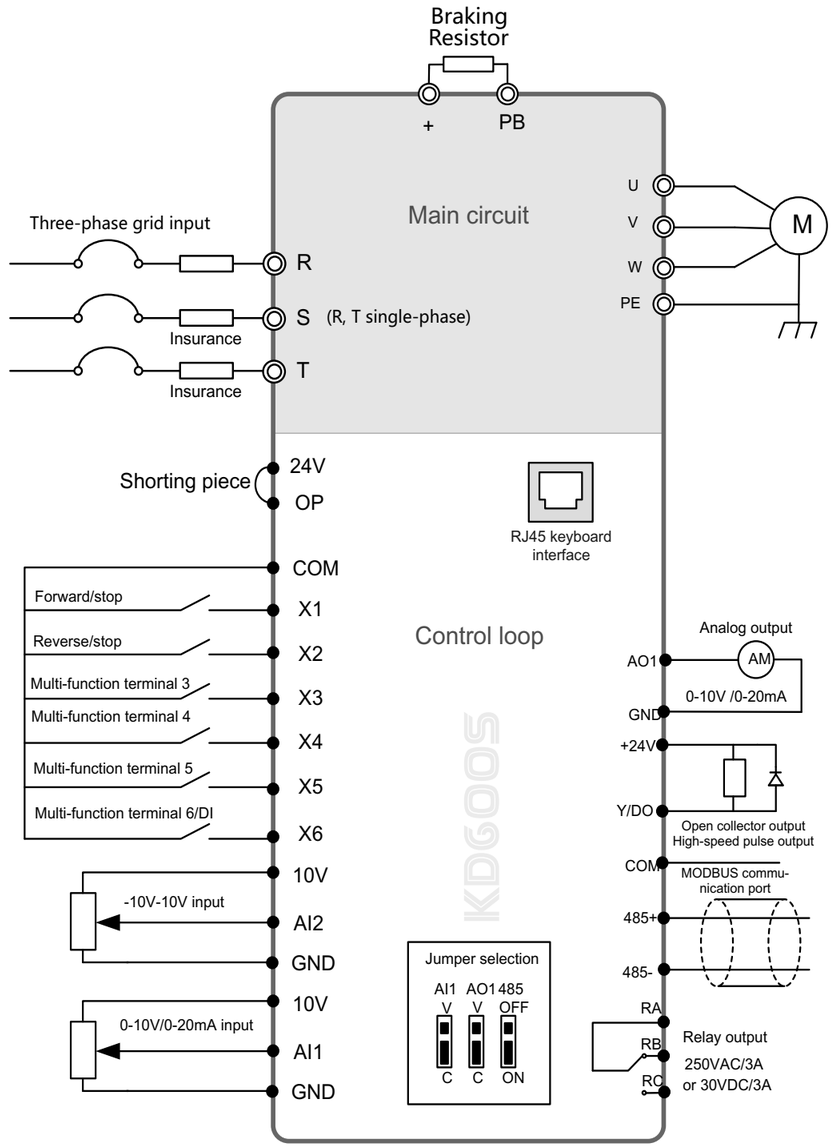
✧The machine has the characteristics of high temperature resistance: scientific air duct design, rapid heat dissipation, low temperature rise of the machine, and no need to reduce the capacity under the ambient temperature of 50 °C.

Layered structure design



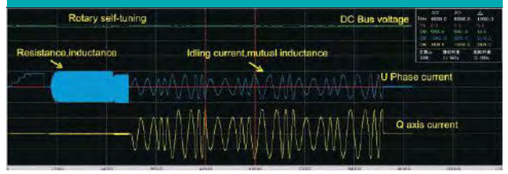
✧The electrical part is separated from the cooling air duct layer by layer, and each part is independent, which can effectively deal with the dust problem of circuit boards and sensitive devices.

BASIC WIRING DIAGRAM



FEATURES

Self-tuning of motor parameters



Rotary self-tuning

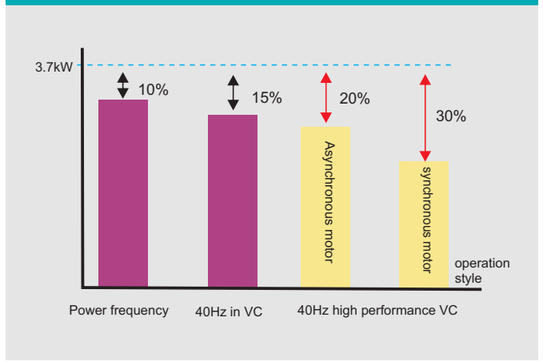
Fully static self-tuning

✧It could accurately acquire the motor parameters both in rotary and static self-tuning, so as to provide higher control accuracy and response speed,which is convenient and simple.

✧Rotary self-tuning: Must unload the motor. Suit for applic-ations with higher requirement of control accuracy.

✧Fully static self-tuning: Leading motor tuning algorithm, can acquire the motor parameters in static status, which is comparab-le to the rotary self-tuning.

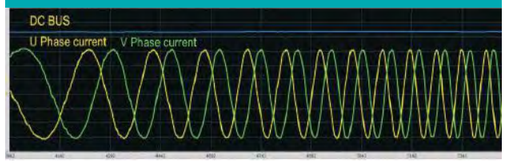
Excellent energy-saving functions



Comparison diagram of fan energy saving

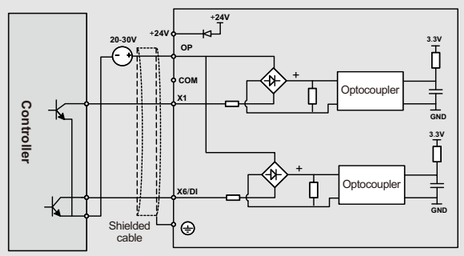
Adopt the new generation of energy-saving control technology to realize the high-efficiency operation of induction motor; reduce the excitation current according to the load current, and automatically adjust according to the loading condition; improve the motor efficiency at most; reduce the motor consumption and energy consumption. 30% of AM&PMSM adopt the VC mode to drive PMSM and the energy utilization could increased by more than 10%.

Over current suppression



The current suppression function could avoid the frequent OC fault of inverter. While the current is over the current protection point, it could continuously limit the current below the protection point, so as to protect devices, prevent the overcurrent fault caused by sudden load or interference and reduce the loss caused by.stop without reason.

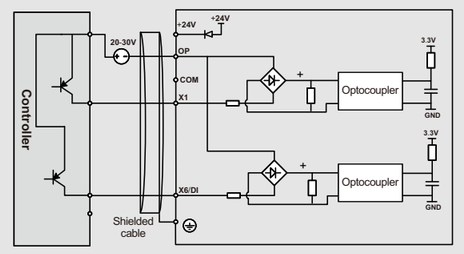
Use external power supply open collector PNP wiring method



Over voltage suppression

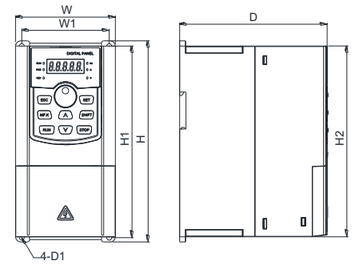
The overvoltage suppression function could prevent inverter from overvoltage fault in ACC/DEC process. During ACC/DEC, if the bus voltage of inverter reaches or exceeds the overvoltage protection point, the overvoltage suppression function could suppress the rising of bus voltage by automatically adjust the operation frequency, so as to protect the devices and avoid the overvoltage fault caused by the rising of bus voltage.

Use external power supply open collector PNP wiring method



BASIC WIRING DIAGRAM

Model	External and installation dimensions (mm)						Pore size	Weight (kg)
	W1	H1	H	H2	W	D		
2S-0.7G	67.5	160	170	----	84.5	129	■4.5	1.0
2S-1.5G								
4T-1.5G								
4T-2.2G								
2S-2.2G	85	185	194	----	97	143.5	■5.5	1.4
2S-4.0G								
4T-4.0G								
4T-5.5G								
2T-5.5G	106	233	245	----	124	171.2	■5.5	2.5
4T-7.5G								
4T-11G								
2T-7.5G	120	317	335	----	200	178.2	Φ8	8.4
2T-11G								
4T-15G								
4T-18.5G								
4T-22G								
2T-15G	150	387.5	405	----	255	195	Φ8	12.8
2T-18.5G								
4T-30G								
4T-37G								
2T-22G	180	437	455	----	300	225	■10	17.8
2T-30G								
4T-45G								
4T-55G								
4T-75G	260	750	785	----	395	291	■12	50
4T-90G								
4T-110G								
4T-132G	360	950	990	----	500	368	■14	88
4T-160G								
4T-185G								
4T-200G								
4T-220G	400	1000	1040	----	650	406	■14	123
4T-250G								
4T-280G								
4T-315G	600	1250	1300	----	815	428	■14	165
4T-355G								
4T-400G								



✧With inside EMC filter and building-block design for IO extension card and different kinds of PG card;

✧Top performance in our industry which represent in torque in less than 1Hz 0.5Hz 0.25Hz 0.1Hz and 0Hz that it can compare with any domestic chinese brand for output torque;

✧Smooth running and stability;

✧Low noise on motor and fast response for 0.1S acceleration and deceleration without dead zone;

✧Reverse and forward free switching;

✧Sleeping function and energy saving function as well as in built PLC programming;

✧Tension control and torque mode control;

✧Support two group motor parameters which can realize two motor switching control;

✧220V single phase /three phase input and three phase output.

K-DRIVE
AC DRIVE

STERRING
THE POWER
OF THE SUN

SP600

Dedicated AC Drive
For solar pump

SP600 dedicated AC drive is a decent solution that takes use of solar power as a green and energy source for pumping water.

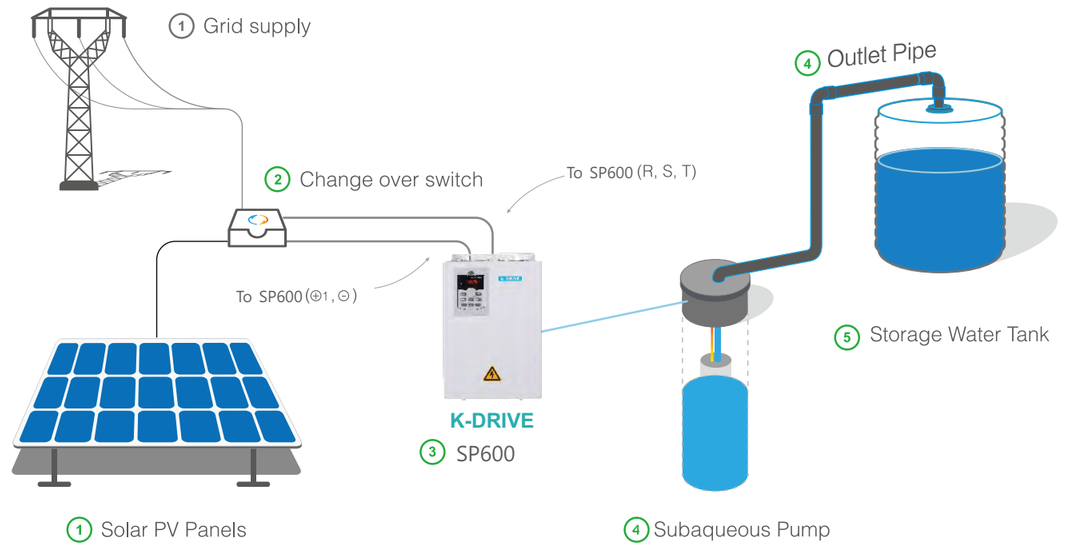
COMPATIBILITY

Synch motor control applicable
Asynch motor control applicable

POWER RATINGS

150 - 400VDC / 200 - 240VAC	1Phase	0.4 - 2.2kW
250 - 800VDC / 380 - 460VAC	3Phase	0.4 - 75kW

CONTROL TECHNOLOGY V/Hz SVC for synch motor



01 MPPT

The SP600 solar pump drive is tailored to effectively use the energy from the sunshine. Its inbuilt maximum power point tracking functionality always feeds the maximum amount of power possible from the panels to the pump.

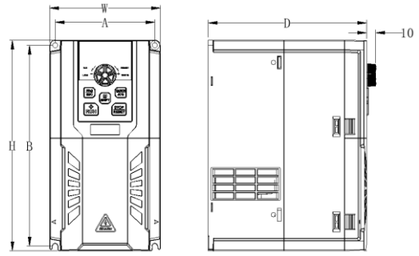
02 Classified user mode

SP600 drives are equipped with three operation modes. Plug-and-Play Mode is for robust MPPT operation, while Senior Mode for the best performance of MPPT. Professional Mode is designed for the users who ask for comprehensive water supply functions.

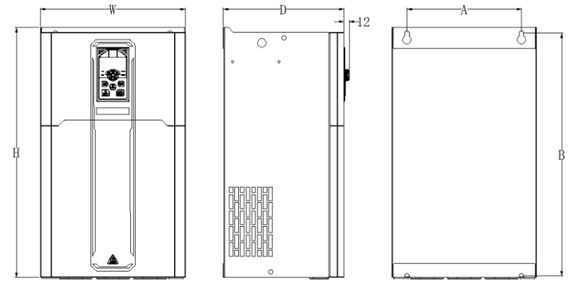
4T

AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture	Frame NO.
				A	B	H	W	D	d	
KD600-4T-45G/55P	45	92	91	245	518	534	310	258	10	B
KD600-4T-55G/75P	55	113	110							
KD600-4T-75G/90P	75	157	152	290	544	560	350	268	10	B
KD600-4T-90G/110P	90	180	176							
KD600-4T-110G/132P	110	214	210	320	678	695	410	295	10	B
KD600-4T-132G/160P	132	256	253							
KD600-4T-160G/185P	160	307	304	380	1025	1050	480	330	10	C
KD600-4T-185G/200P	185	345	340							
KD600-4T-200G/220P	200	385	380							
KD600-4T-220G/250P	220	430	426							
KD600-4T-250G/280P	250	468	465	500	1170	1200	590	365	14	C
KD600-4T-280G/315P	280	525	520							
KD600-4T-315G/350P	315	590	585	500	1255	1290	700	400	16	C
KD600-4T-350G/400P	350	665	650							
KD600-4T-400G/450P	400	785	725							
KD600-4T450G/500P	450	883	820	/	/	1800	1000	500	/	C
KD600-4T500G/550P	500	920	900							
KD600-4T550G/630P	550	1020	1000							
KD600-4T630G/710P	630	1120	1100							
KD600-4T710G/800P	710	1315	1250	/	/	2200	1200	600	/	C
KD600-4T800G/900P	800	1525	1450							

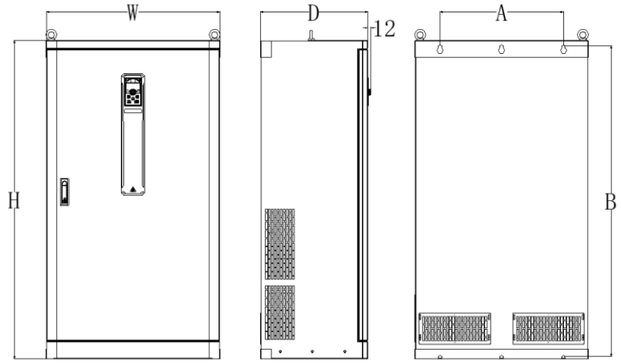
A



B



C



03 Automatic run/sleep

When sunlight radiation meets the threshold requirement, a SP600 solar pump drive starts automatically, and the pump connected to it begins to run. When the sunshine is weak, the pump will fall into sleep.

04 Dry run protection

Dry run protection is one of quite important functionalities for automatic operation of the water pumping system, realized by K-DRIVE without requirement of signal feedback from any devices.

Flexible control mode

Pressure control mode under AC power supply from grid or diesel generator.

Users would like to use this functionality in some water supply systems, when the pressure is required to be a constant value and the drive is being connected to AC power supply from grid or diesel generator.

Constant speed mode under AC power supply

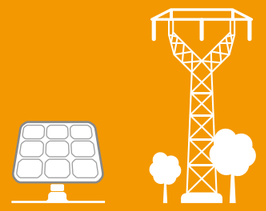
Users are most likely to use this functionality when sun radiation is not strong enough or unavailable, and the water supply system just simply requires the water to be pumped at the rated output.

Pressure limit mode under power supply from solar panels.

Users need to use this functionality in some water supply systems, when the pressure needs to be limited not to exceed a certain value.

Multistep pressure mode

This functionality is quite useful sometimes for farm irrigation when different area requires different pressures.



SP600

for different motor and power supply

SP600 series solar pump dedicated drives are applied to both asynchronous motor and PMSM. The mains input can be solar panel DC, AC single phase, or AC three phase. Users are free to choose a single-phase motor or three-phase motor according to the wish. Thanks to the inbuilt MPPT (Maximal Power Point Tracking) function, SP600 drives have a fast response to the sunlight change and reach maximal power point promptly, making the system working at its highest efficiency always.

K-DRIVE
AC DRIVE

KD600M Universal Vector AC Drive

KD600M is our new design with the most compact size but good vector Control Mode, Can be easily tuned to simple speed control for 80% Motors,really che-apest price, and good function.. with 24 months warranty offered, it can almost match all customers' requests.

POWER RATINGS

1 220 - 240V	0.4 - 2.2kW
3 220 - 240V	0.4 - 2.2kW
3 380 - 480V	1.5 - 5.5kW

COMPATIBILITY

Asynch motor control applicable

CONTROL TECHNOLOGY

V/Hz control
SVC1

FEATURES

Reliable	User-friendly	Intelligent
Ambient temperature 45° C without derating	Parameter copy	Warning systems
Thickened conformal coating	Detachable control panel	Multiple frequency references
Optimized cooling system	One platform numerous versions	All-sided protection
		Online autotuning
		PC-based monitoring software
		Extensible features/parameter blocks
Benefit		
Less need for cooling or oversizing	Save time for Commissioning	Warning before stop
Resistant to harsh surroundings	Easy for remote control	Powerful in intelligent applications
Lower temperature rise	Save stocks	Long lifetime & less maintaince cost
		Intelligent response to delicate variation
		Easy to operate
		Make the drives "just for you"

APPLICATIONS

Conveyors, centrifuges, food processing machinery, packaging machinery, pumps, fans, etc.

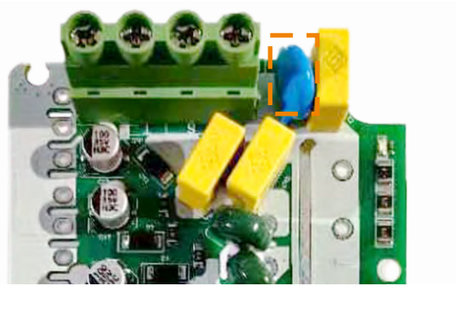
Small in Size, Powerful in Performance

01 Mounting space saving

KD600M adopt book-type frames to save mounting space. Close parallel mounting is permitted without requirement of derating.

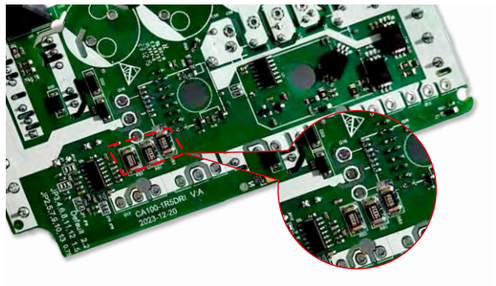
02 EMC grounding design

Independent grounding system selection switch (through the screw access or not to choose), easy to solve the problem of EMC interference and leakage current.



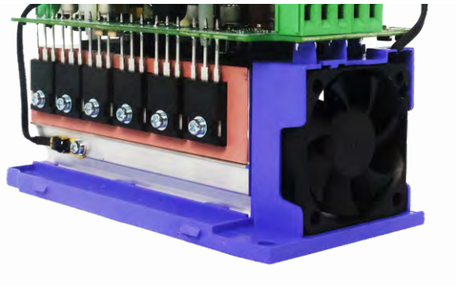
03 Three resistance current sampling and reconstruction technology

Whole back facet covered, and fin-corrugated heat sink has the optimized contribution to heat dissipation. Minimized temperature rise brings about reliable operation and pledges the lifespan of drive components.



04 Minimum penetration of dust

KD600M drives are designed to keep the forced ventilation away from the electronics. Printed circuit boards are well protected inside the drives.



05 Promoted V/Hz

KD600M adopting promoted V/Hz control technique make the start torque reach 180% of the rated at 0.5Hz.

180%

06 Strong adaptability to temperature

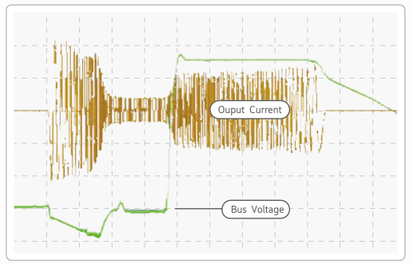
Derating is not required for KD600M at ambient temperature up to 50 .

50°C

07 Multi-step speed

16-step speed is supported, two of which accept various frequency references.

16



08 Stall protections

Overvoltage and undervoltage stall protections are both procurable at KD600M, which pledges the operation continuous without trip at ramp down of the large-inertia load, or sudden power loss.

For more information

To know more functionalities and capabilities, please refer to KD60M user manual or contact K-DRIVE.

SPECIFICATIONS

Input & Output

Input voltage	1AC 220~240V(± 15%) 3AC 220~240V(± 15%) 3AC 380~460V(± 15%)
Input frequency	50Hz/60Hz ±5%
Output voltage	0~input voltage, deviation <±3%
Output frequency	0~600Hz

Control Characteristics

Control mode	V/F control Vector control
Speed accuracy	±0,5% (V/F) ±0,2% (SVC)
Speed fluctuation	±0,3% (SVC)
torque response	< 10ms (SVC)
Starting torque	0,5Hz: 150% (V/F) 0,25Hz: 180% (SVC)
Overload capability	150% Rated current -60s 180% Rated current -10s 200% Rated current -1s
Simple PLC Multi-step speed	16 speed External digital signal control Internal clock
PID function	Standard build-in
Communication	Modbus

Featured functions

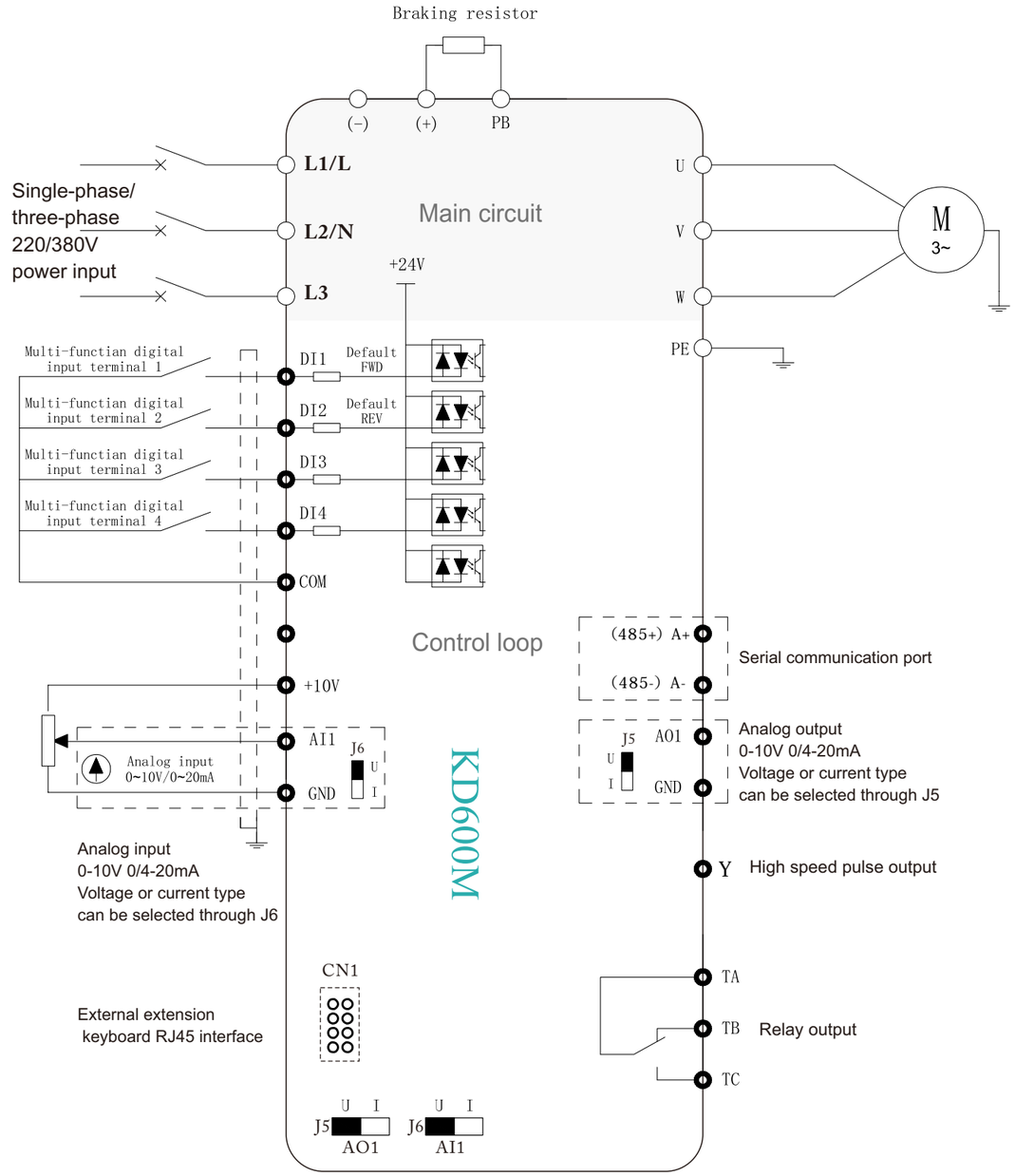
Featured functions	Input &Output delay Flexible parameters display AVR (Automatic Voltage Regulation) Timing control, fixed length control, etc. Simple PLC, 16-steps speed control Torque control build-in S curve acceleration/deceleration Multi-functional programmable keypad V/F separated control

Environment Limitation

Installation location	Without direct sunlight,free from dust,corrosive gases, oil mist, flammable gases, water vapor, water drop and salt,etc.
Altitude	0~2000m Derated 1% for every 1000m when the altitude is above 1000meters
Ambient temperature	-10°C~50°C (Output derated while the temperature is higher than 40°C)
Storage temperature	-20°C~+70°C
Relative Humidity	5-95% no condensation

BASIC CONNECTION

Following is the default wiring diagram for KD600M. Please consult K-DRIVE if customized solution is required.

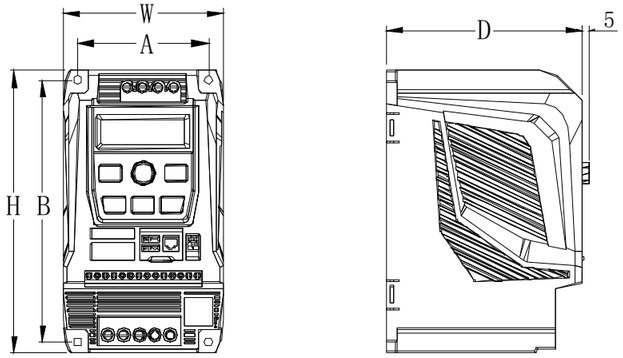


MODEL AND SIZE

2S

Model	Input current (A)	Output current(A)	Dimensions (mm)			Installation size(mm)		Aperture
			H	W	D	A	B	
Single phase 220V range: -15%~+20%								
KD600M-2S-0.4G	5.4	2.3	149	83	107	66	136	Φ5
KD600M-2S-0.7G	8.2	4.0	149	83	107	66	136	Φ5
KD600M-2S-1.5G	14.0	7.0	170	98	120	80	157	Φ5
KD600M-2S-2.2G	23.0	9.6	170	98	120	80	157	Φ5

2T



Model	Input current (A)	Output current(A)	Dimensions (mm)			Installation size(mm)		Aperture
			H	W	D	A	B	
Three phase 220V range: -15%~+20%								
KD600M-2T-0.4G	2.7	2.3	149	83	107	66	136	Φ5
KD600M-2T-0.7G	4.2	4.0	149	83	107	66	136	Φ5
KD600M-2T-1.5G	7.7	7.0	170	98	120	80	157	Φ5
KD600M-2T-2.2G	12.0	9.6	170	98	120	80	157	Φ5

4T

Model	Input current (A)	Output current(A)	Dimensions (mm)			Installation size(mm)		Aperture
			H	W	D	A	B	
Three phase 380V range: -15%~+20%								
KD600M-4T-0.7G/1.5P	3.4/5.0	2.1/3.8	149	83	107	66	136	Φ5
KD600M-4T-1.5G/2.2P	5.0/5.8	3.8/5.1	149	83	107	66	136	Φ5
KD600M-4T-2.2G/3.7P	5.8/10.5	5.1/9.0	149	83	107	66	136	Φ5
KD600M-4T-4.0G/4.0P	10.5/14.6	9.0/13.0	170	98	120	80	157	Φ5
KD600M-4T-5.5G/7.5P	14.6/20.5	13.0/17.0	170	98	120	80	157	Φ5
KD600M-4T-7.5G/9.0P	20.5/22.0	17.0/20.0	170	98	120	80	157	Φ5
KD600M-4T-11G/15P	26.0/35.0	25.0/32.0	228	135	160	80	157	Φ5
KD600M-4T-15G/18.5P	35.0/38.5	32.0/37.0	228	135	160	80	157	Φ5

Power Rate

1 phase & 3 phase Input
3 phase output

220V (+-20%) 0.4KW~4.0KW
380V (+-20%) 0.4KW~630KW

KD600 Series Vector inveter

KD600 Series is our general purpose series, which support 110V & 220V & 380V & 480V & 690V,0.4KW~1132KW, Built In C2/C3 standard EMC filter, Nice torque Vector Control, can add many kinds of PG card to support encoder connection. with 24 months warranty offered, it can almost match all customers' requests.

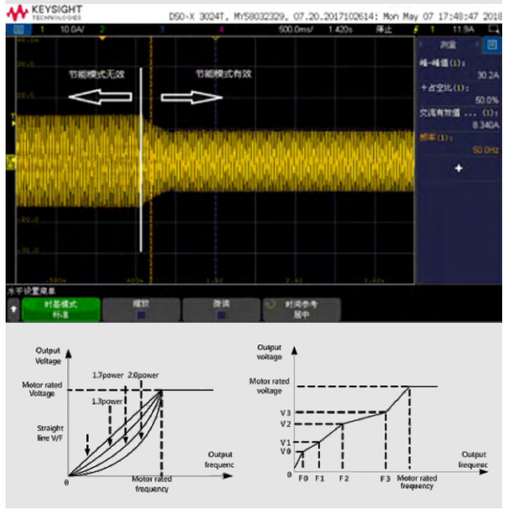
- ❍KD600（General Purpose）
- ❍KD600E（Elevator & Lift Series）
- ❍SP600（Off Grid Solar Series）
- ❍KD600-2S/4T（220V Input, 380V Output Series）
- ❍KD600-2SS（Single Phase Output Series）

COOPERATION BRAND

World-class components inside, stronger "bones", healthier "body".

FEATURES

Energy saving function



✧It has excellent automatic energy saving function, only need to set the maximum energy saving target, as long as the operation meets the energy saving condition, it can enter the automatic skill state.

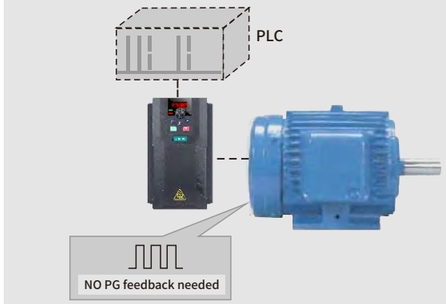
✧By setting the VF function, it can realize the application of 1 drag and long distance control to meet the application of the transformation occasion.

Independent duct design

✧Independent air duct design, effectively preventing dust entering inverter, causing short-circuit and other faults and improving reliability;

✧Use bigger air volume and long life cooling fan effectively reduces the internal temperature rise of the inverter and ensures reliable and stable operation of inverter.

Positioning Capability without External Devices



✧Use an IPM motor to perform position control –without motor feedback. Electrical saliency in IPM motors makes it possible to detect speed, direction and rotor position without the use of external feedback devices.

✧Positioning functionality without a PLC. Visual programming in DriveWorcs EZ eliminates the need for external controllers by giving the user the power to create customized functions such as position control.

Advanced drive technology

✧Capable of driving different types of motor. KD600 series runs not only induction motors, but also synchronous motors lice IPM*1 and SPM*2 motors with high performance open and closed loop vector control.

✧Minimize equipment needed for your business by using the same drive to run induction and synchronous motors.

✧Interior Permanent Magnet Motor (Motors with permanent magnets inserted into the rotor)

✧Surface Mounted Permanent Magnet Motor (Motors with permanent magnets mounted on the surface of the rotor)

FEATURES

Perfect protection system

✧Designed for 10 years of maintenance-free operation.

✧Cooling fan, capacitors, relays, and IGBT have been carefully selected and designed for a life expectancy up to ten years.

※ Assumes the drive is running continuously for 24 hours a day at 80% load with an ambient temperature of 40℃.

All series support LCD panel

SPECIFICATION

Input & Output

Input voltage	1AC 220~240V(± 15%) 3AC 220~240V(± 15%) 3AC 380~460V(± 15%)
Input frequency	50Hz/60Hz ±5%
Output voltage	0~input voltage, deviation <±3%
Output frequency	0~600Hz

Control Characteristics

Control mode	V/F control Sensor-less vector control Torque control
Speed accuracy	±0,5% (V/F) ±0,2% (SVC)
Speed fluctuation	±0,3% (SVC)
torque response	< 10ms (SVC)
Starting torque	0,5Hz: 150% (V/F) 0,25Hz: 180% (SVC)
Overload capability	150% Rated current -60s 180% Rated current -10s 200% Rated current -1s
Simple PLC Multi-step speed	16 speed External digital signal control Internal clock
PID function	Standard build-in
Communication	Modbus

Featured functions

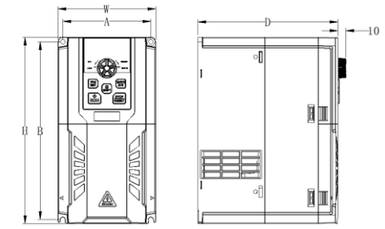
Featured functions	Input &Output delay Flexible parameters display AVR (Automatic Voltage Regulation) Timing control, fixed length control, etc. Simple PLC, 16-steps speed control Torque control build-in S curve acceleratior/deceleration Multi-functional programmable keypad V/F separated control

Environment Limitation

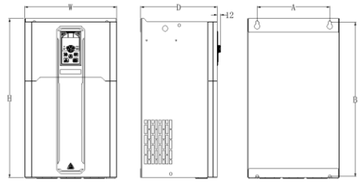
Installation location	Without direct sunlight,free from dust,corrosive gases, oil mist, flammable gases, water vapor, water drop and salt,etc.
Altitude	0~2000m Derated 1% for every 1000m when the altitude is above 1000meters
Ambient temperature	-10°C~50°C (Output derated while the temperature is higher than 40°C)
Storage temperature	-20°C~+70°C
Relative Humidity	5-95% no condensation

BASIC WIRING DIAGRAM

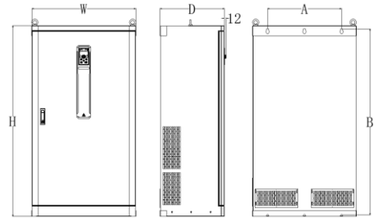
AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture
				A	B	H	W	D	d
Input voltage: single-phase 220V Range: -15%~20%									
KD600-2S-0.4G	0.4	5.4	2.3	76	156	165	86	140	5
KD600-2S-0.7G	0.75	8.2	4.0						
KD600-2S-1.5G	1.5	14.0	7.0						
Input voltage: three-phase 380V Range: -15%~20%									
KD600-4T-0.7G/1.5P	0.7	3.4	2.1	76	156	165	86	140	5
KD600-4T-1.5G/2.2P	1.5	5.0	3.8						
KD600-4T-2.2G/4.0P	2.2	5.8	5.1						
KD600-4T-4.0G/5.5P	4.0	10.5	9.0	98	182	192	110	165	5
KD600-4T-5.5G/7.5P	5.5	14.6	13.0						
KD600-4T-7.5G/9.0P	7.5	20.5	17.0	111	223	234	123	176	6
KD600-4T-9.0G/11P	9.0	22.0	20.0						
KD600-4T-11G/15P	11	26.0	25.0	147	264	275	160	186	6
KD600-4T-15G/18.5P	15	35.0	32.0						
KD600-4T-18.5G/22P	18.5	38.5	37.0	174	319	330	189	186	6
KD600-4T-22G/30P	22	46.5	45.0						
KD600-4T-30G/37P	30	62.0	60.0	200	410	425	255	206	7
KD600-4T-37G/45P	37	76	75						
KD600-4T-45G/55P	45	92	91	245	518	534	310	258	10
KD600-4T-55G/75P	55	113	110						
KD600-4T-75G/90P	75	157	152	290	544	560	350	268	10
KD600-4T-90G/110P	90	180	176						
KD600-4T-110G/132P	110	214	210	320	678	695	410	295	10
KD600-4T-132G/160P	132	256	253						
KD600-4T-160G/185P	160	307	304	380	1025	1050	480	330	10
KD600-4T-185G/200P	185	345	340						
KD600-4T-200G/220P	200	385	380						
KD600-4T-220G/250P	220	430	426	500	1170	1200	590	365	14
KD600-4T-250G/280P	250	468	465						
KD600-4T-280G/315P	280	525	520						
KD600-4T-315G/350P	315	590	585	500	1255	1290	700	400	16
KD600-4T-350G/400P	350	665	650						
KD600-4T-400G/450P	400	785	725						
KD600-4T450G/500P	450	883	820	/	/	1800	1000	500	/
KD600-4T500G/550P	500	920	900						
KD600-4T550G/630P	550	1020	1000						
KD600-4T630G/710P	630	1120	1100						
KD600-4T710G/800P	710	1315	1250	/	/	2200	1200	600	/
KD600-4T800G/900P	800	1525	1450						



Schematic diagram of plastic dimensions and installation dimensions below 22KW



Schematic diagram of overall dimensions and installation dimensions of 30~132KW sheet metal chassis



160KW Inverter Dimensions and Installation Dimensions

INSTRUCTION

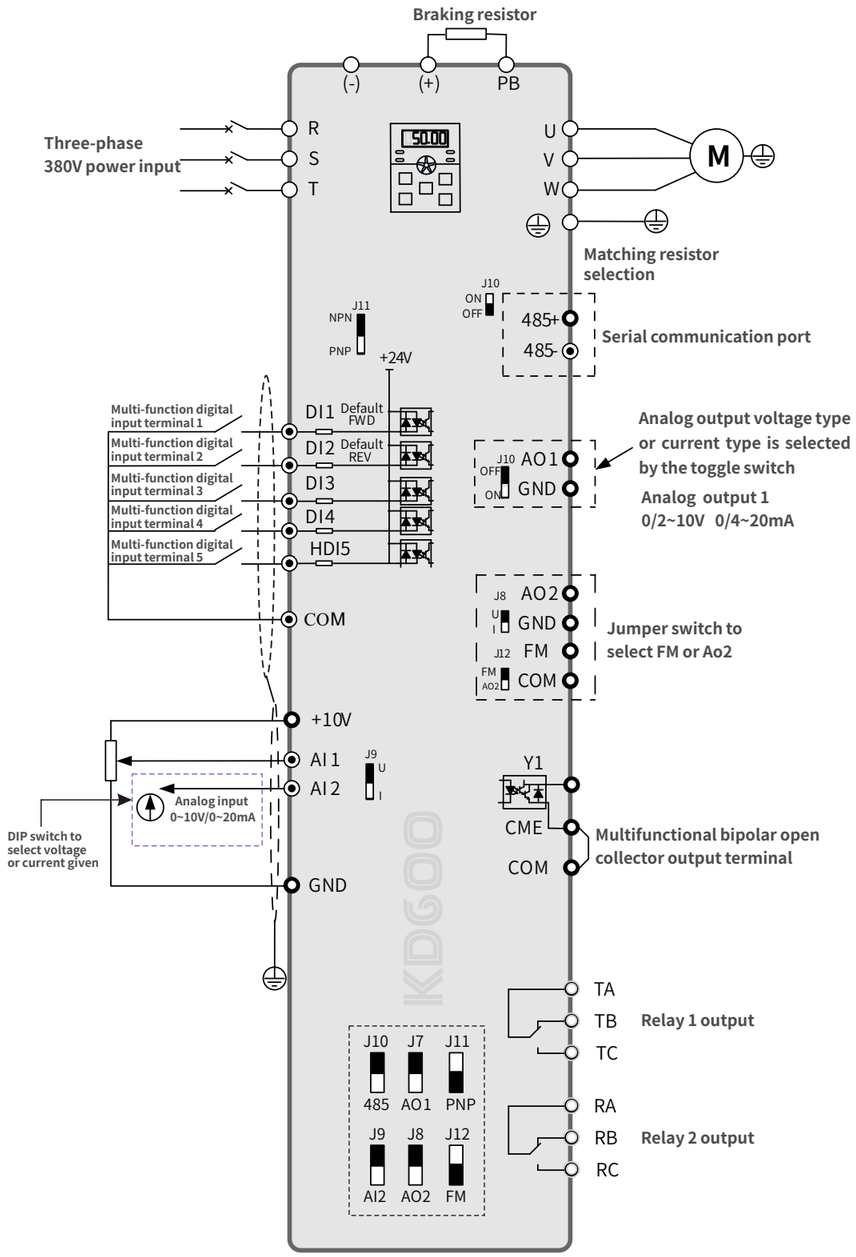
➢All KD600 Series Has Brake Unit Built In.

➢KD600 Series 0.4KW~22KW All Has Brake Unit Built In, and 30KW~400KW, All Can Make Brake Unit Built in.

➢ All Series Can Changed Into 480V Series.

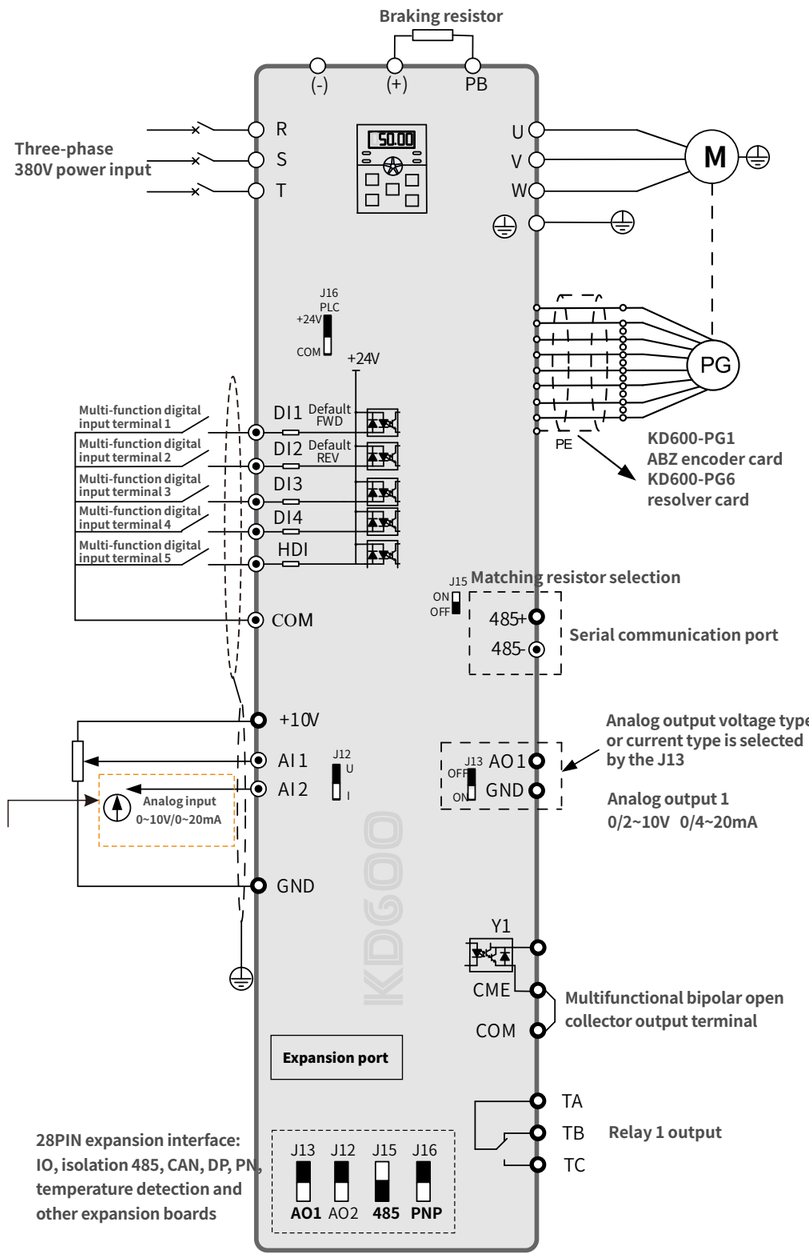
BASIC WIRING DIAGRAM

Three-phase inverter below 2.2kW

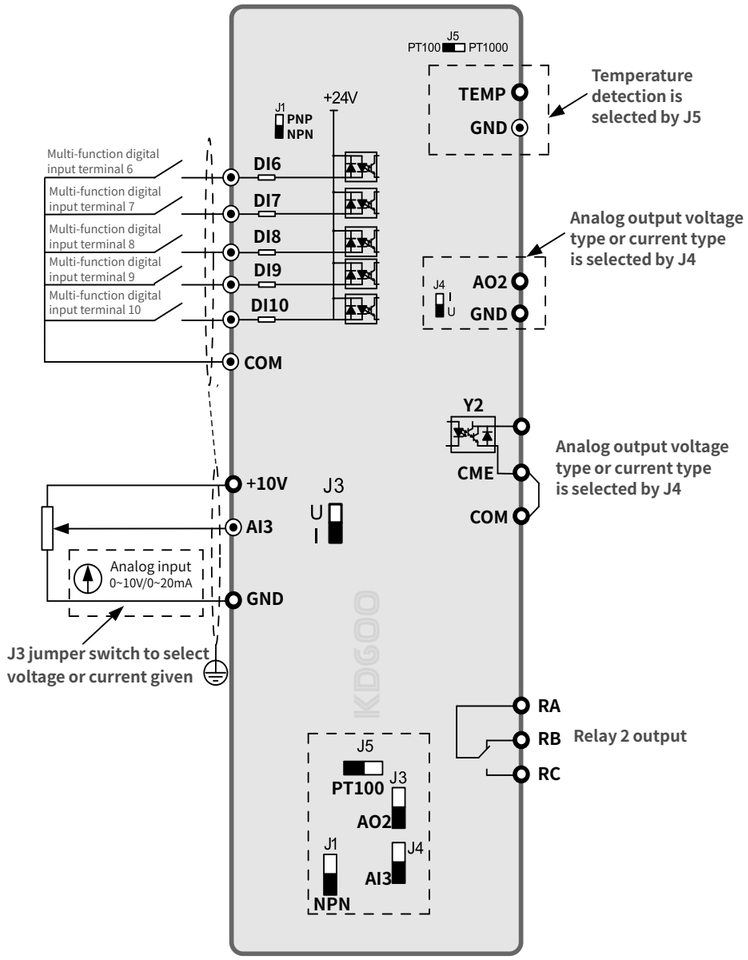


BASIC WIRING DIAGRAM

(4T/7T) Three-phase inverter above 4.0kW

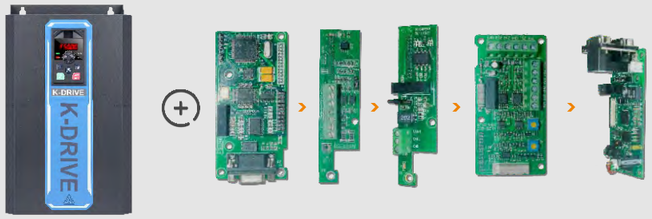


BASIC WIRING DIAGRAM KD600-IO1 expansion card



EXTERNAL AND EXPANSION CARDS

Various function expansion cards, IO cards, relay output cards, and various PG cards can be selected according to requirements to match various encoders, communication expansion cards, etc. Can be customized according to demand.



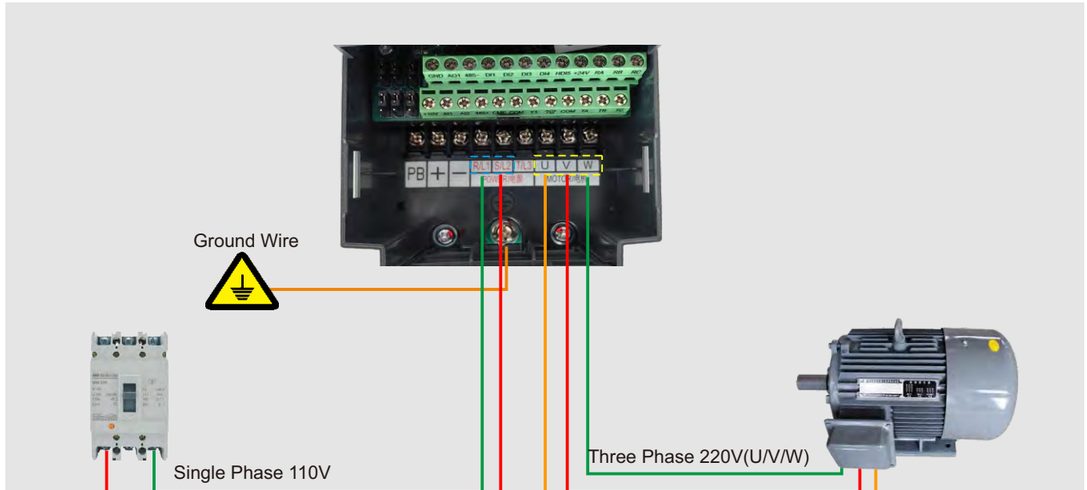
OPTIONS

Picture	Model	Name	Features
	KD600-IO1	I/O expansion card 1	5 digital inputs, one relay output, one analog A02 output, one digital y2 output, and one temperature detection (PT100/PT1000/PTC/KTY).
	KD600-IO2	I/O expansion card 2	Two digital inputs, one relay output, one analog AO2 output, and one LCD expansion network port RJ45 socket.
	KD600-ISO485	RS-485 communication card	One isolated MoDBus communication adapter card
	KD600-CAN	CAN communication expansion card	CANOPEN communication adapter card
	KD600-PN	ProFinet communication card	ProFinet communication card
	KD600-DP	Profbus-DP communication card	Profbus-DP communication card
	KD600-Ethercat	Ethercat communication card	Ethercat communication card
	KD600-PG1	Open collector ABZ encoder	Open collector PG card (PG card 1 can only be applied to asynchronous machines; compatible with complementary output, the encoder card output DC power supply can be selected +12V or +5V (jumper selection))
	KD600-PG3	Differential input ABZ encoder card	ABZ differential signal input PG card
	KD600-PG6	Resolver Interface Card	Applicable to resolver, DB9 interface, optional matching shielded encoder cable.
	KD600-LCD	LCD screen	The LCD screen needs to be used with a 102 expansion card.

K-DRIVE
AC DRIVE

KD600-1S/2T Series

KD600-1S/2T Series is for some solutions which need 110V, single phase input, but need 220V three phase output for AC Motors, General ways to solve out this problem is to add a transformer behind 110V VFD, and then connect to mo-tor, but this is very trouble, and costing is very high, and now our KD600-1S/2T series can solve out this solution wit-hout any problem, detailed wire diagram is as follows.

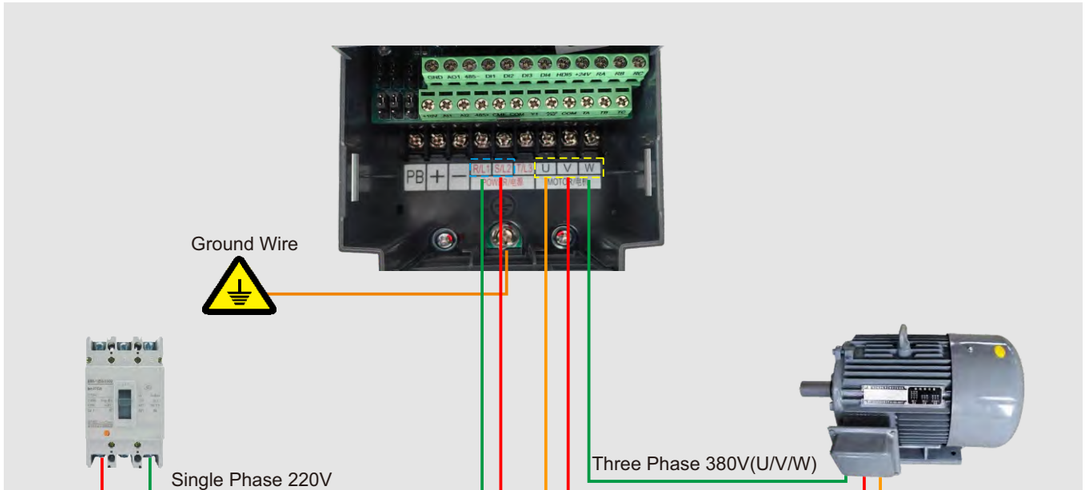


AC Drive Model	Module current(A)	Rated Input Current(A)	Rated Output Current(A)	Capacitance		Dimensions (mm)		
				Capacity(F)	Number	H	W	D
KD600-1S/2T-0.75G	15	11	2.3	560	2	165	86	140
KD600-1S/2T-1.5G	25	19	7	1200	2	192	110	165
KD600-1S/2T-2.2G	25	26.4	10	1200	4	234	123	176
KD600-1S/2T-3.7G	50	45.5	17	1200	6	275	160	186
KD600-1S/2T-5.5G	75	67.5	25	1200	6	275	160	186
KD600-1S/2T-7.5G	100	84.8	32	2700	4	330	189	186
KD600-1S/2T-11G	150	119.25	45	1800	8	425	255	206
KD600-1S/2T-15G	150	145.75	55	2200	8	425	255	206
KD600-1S/2T-18.5G	200	198.75	75	6800	4	534	310	258
KD600-1S/2T-22G	200	238.5	90	8200	4	534	310	258
KD600-1S/2T-30G	300	291.5	110	6800	6	560	350	268
KD600-1S/2T-37G	450	402.8	152	8200	6	560	350	268

K-DRIVE
AC DRIVE

KD600-2S/4T Series

KD600-2S/4T Series is for some solutions which need 220V, single phase input, but need 380V three phase output for AC Motors, General ways to solve out this problem is to add a transformer behind 220V VFD, and then connect to mo-tor, but this is very trouble, and costing is very high, and now our KD600-2S/4T series can solve out this solution wit-hout any problem, detailed wire diagram is as follows.



AC Drive Model	Module current(A)	Rated Input Current(A)	Rated Output Current(A)	Capacitance		Dimensions (mm)		
				Capacity(F)	Number	H	W	D
KD600-2S/4T-0.75G	15	7.3	2.3	560	2	165	86	140
KD600-2S/4T-1.5G	25	13.3	3.8	1200	2	192	110	165
KD600-2S/4T-2.2G	25	17.9	5.1	1200	2	192	110	165
KD600-2S/4T-3.7G	40	31.5	9	1200	4	234	123	176
KD600-2S/4T-5.5G	50	45.5	13	1200	4	234	123	176
KD600-2S/4T-7.5G	50	59.5	17	1200	6	275	160	186
KD600-2S/4T-11G	75	87.5	25	2200	4	330	189	186
KD600-2S/4T-15G	75	112.0	32	2200	4	330	189	186
KD600-2S/4T-18.5G	150	129.5	37	1800	8	425	255	206
KD600-2S/4T-22G	150	157.5	45	2200	8	425	255	206
KD600-2S/4T-30G	200	210.0	60	6800	4	534	310	258
KD600-2S/4T-37G	200	262.5	75	6800	4	560	350	268

KD600E

Dedicated AC Drive
For elevator,escalator and hoist

KD600E are specific for passenger and freight elevators installed in residential buildings, shopping malls, and office buildings. The drives can be programmed to have a commendable leveling even they adopt open-loop control, reducing the cost of additional devices. Flexible S-curve program greatly improves comfortability for the elevator users. All elevator parameters gathered in one chapter in the user manual, and well furnished parameter default values make the commissioning easy and fast.

COMPATIBILITY

Asynch motor control applicable

POWER RATINGS

3× 380 - 480V 3.7 - 30kW

CONTROL TECHNOLOGY

V/Hz SVC1 SVC2

FEATURES

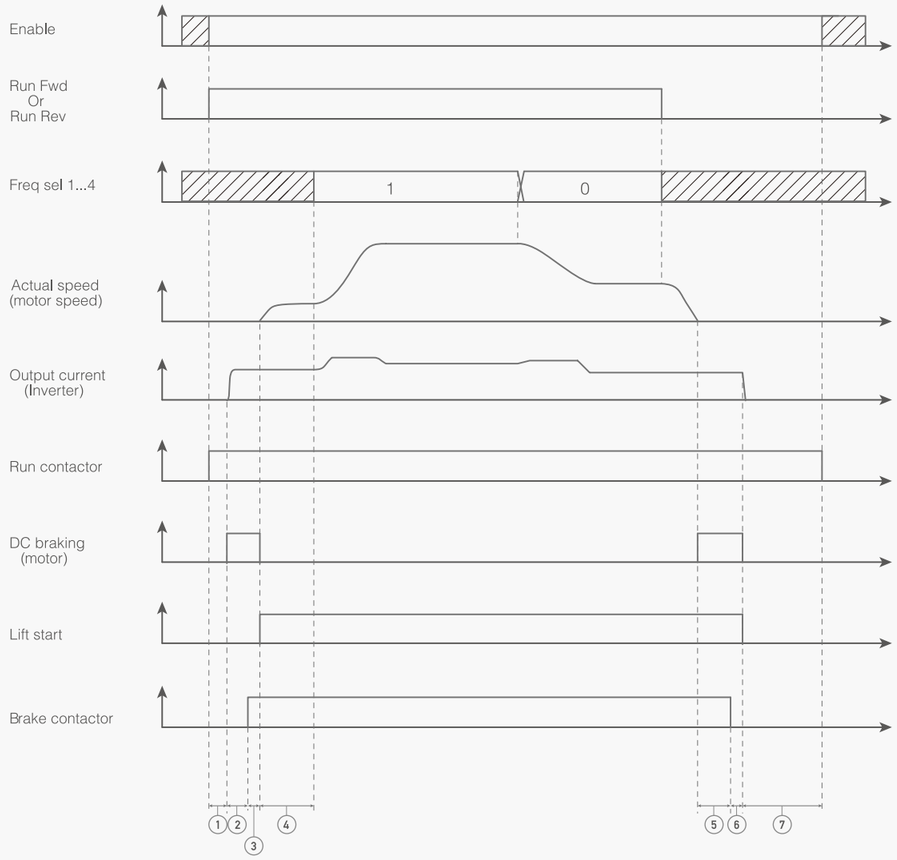
01 Safety and reliability

Safty at KD600E has the highest priority since we understand they are dedicated for passenger elevators. Through enable signal, the drive will enable the run of the motor only when the motor run contactor, all safty contactors are well closed. 220V AC UPS power supply, emergency speed, and inspection speed are supported or programmable at KD600E series, a full coverage on the safty requirement at the drive side.

UPS
appliable

02 Dedicated control sequence

Lift dedicated control sequence, big output torque at low frequency of V/Hz mode, and fast response time make the elevator motion stable and smooth.



① Cont close delay
② Magnet time
③ Brake open delay
④ Smooth start delay
⑤ Brake waiting time
⑥ Brake close delay
⑦ Cont open delay

03 Commendable leveling

Fast response time, programmable S-curve, slip compensation separated for elevator uplink or downlink make the car a commendable leveling for different motor brands.

04 Silky smoothness

Smoothness at the start and stop is quite important and the main reason for the users to select the drive or not. KD600E have a lot of approaches to program the smoothness at the start and stop, like smooth start frequency, DC injection brake, torque boost, V/Hz mode, brake sequency, and so forth.

05 Emergency and inspection speed programmable

If the grid power supply is suddenly lost, the drive will get into emergency mode and run at the emergency speed via UPS power supply. Inspection speed can also be programmed via multi-speed selections.

06 Easy commissioning

To reduce the time during commissioning is our consistent pursuit, for which we spent a lot of time in investigation, research and having in-depth conversation with elevator commissioning engineers before launching these elevator dedicated drives. For the majority of elevator applications, well-trained commissioning engineers just need to read through chapter 5 in KD600E user manual.

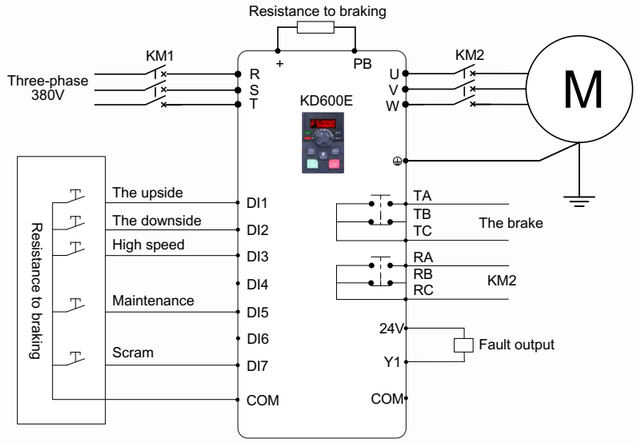
STO

BASIC CONNECTION

Following is the default wiring diagram for KD600E. Please consult K-DRIVE if customized solution is required.

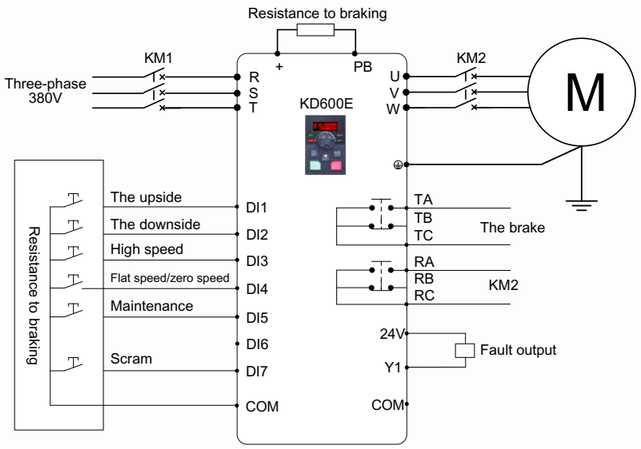
SINGLE MULTI-SPEED TERMINAL ELEVATOR CONTROLLER

For the elevator controller with only one multi-segment speed changing terminal, the high-speed segment and the layer speed segment are controlled by the on-off of the high-speed terminal. The wiring diagram of such elevator controller and frequency converter is as follows:



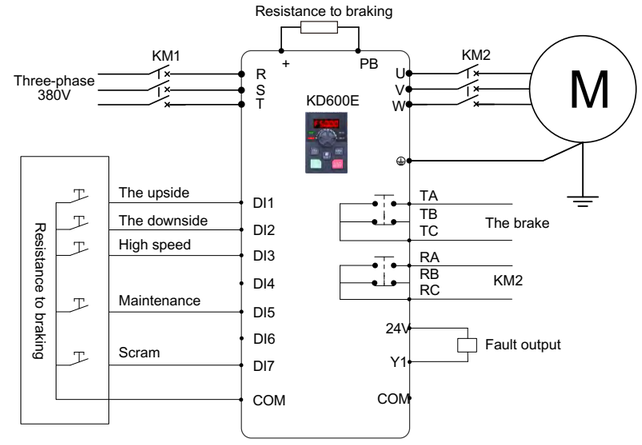
DOUBLE MULTI-SPEED TERMINAL ELEVATOR CONTROLLER

For the elevator controller with two multi-speed changing terminals, its high spe-ed is controlled by the on-off of one ter-minal, and the other terminal is to control the flat speed or zero speed according to different controllers. The wiring diagr-am of the elevator controller and frequency converter with two multi-speed termi-nals is as follows:



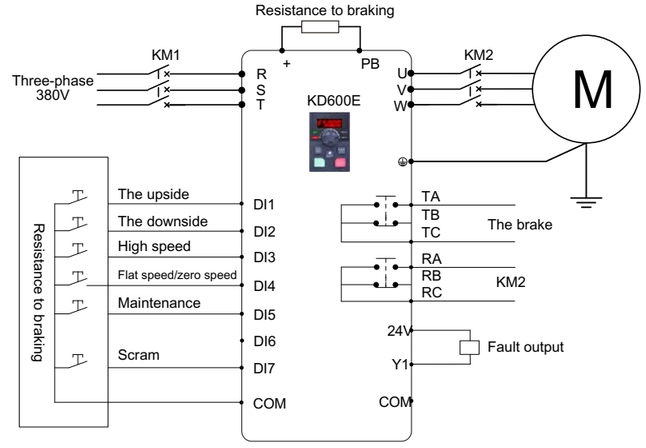
EMERGENCY OPERATION MODE

When the elevator is in use, if the system's power supply suddenly fails, it may result in passengers being locked in the car.KD600E series elevator inverter can support the emergency UPS power supply operation for emergency power outage operati-on, and the emergency signal can be received by the inverter terminal DI6. The wiring diagram is as follows:



CLOSED LOOP ELEVATOR CONTROL

KD600E series elevator inverter can support closed-loop control, and provides a variety of PG cards for use with different encoders. Please refer to Chapter 5 of KD600 series User manual for PG card information. The wiring diagram of elevat-or controller and frequency converter for closed-loop elevator control is shown in the following figure:



MODEL AND SIZE

2S

AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture	Frame NO.
				A	B	H	W	D	d	
Input voltage: single-phase 220V Range：-15%~20%										
KD600E-2S-0.4G	0.4	5.4	2.3	76	156	165	86	140	5	A
KD600E-2S-0.7G	0.75	8.2	4.0							
KD600E-2S-1.5G	1.5	14.0	7.0							

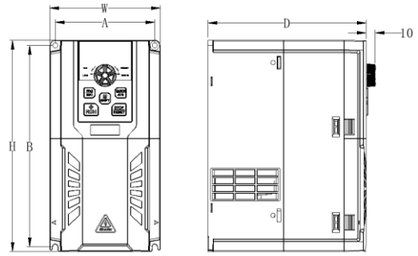
4T

AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture	Frame NO.
				A	B	H	W	D	d	
Input voltage: three-phase 380V Range: -15%~20%										
KD600E-4T-0.7G/1.5P	0.7	3.4	2.1	76	156	165	86	140	5	A
KD600E-4T-1.5G/2.2P	1.5	5.0	3.8							
KD600E-4T-2.2G/4.0P	2.2	5.8	5.1							
KD600E-4T-4.0G/5.5P	4.0	10.5	9.0	98	182	192	110	165	5	A
KD600E-4T-5.5G/7.5P	5.5	14.6	13.0							
KD600E-4T-7.5G/9.0P	7.5	20.5	17.0	111	223	234	123	176	6	A
KD600E-4T-9.0G/11P	9.0	22.0	20.0							
KD600E-4T-11G/15P	11	26.0	25.0	147	264	275	160	186	6	A
KD600E-4T-15G/18.5P	15	35.0	32.0							
KD600E-4T-18.5G/22P	18.5	38.5	37.0	174	319	330	189	186	6	A
KD600E-4T-22G/30P	22	46.5	45.0							
KD600E-4T-30G/37P	30	62.0	60.0	200	410	425	255	206	7	B
KD600E-4T-37G/45P	37	76	75							

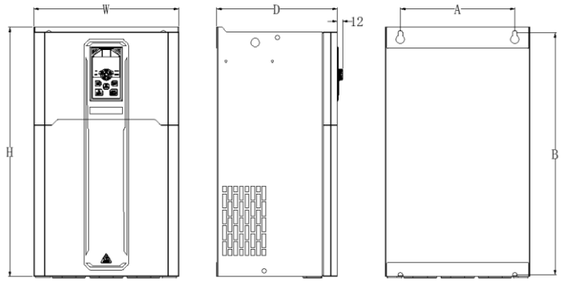
4T

AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture	Frame NO.
				A	B	H	W	D	d	
KD600E-4T-45G/55P	45	92	91	245	518	534	310	258	10	B
KD600E-4T-55G/75P	55	113	110							
KD600E-4T-75G/90P	75	157	152	290	544	560	350	268	10	B
KD600E-4T-90G/110P	90	180	176							
KD600E-4T-110G/132P	110	214	210	320	678	695	410	295	10	B
KD600E-4T-132G/160P	132	256	253							
KD600E-4T-160G/185P	160	307	304	380	1025	1050	480	330	10	C
KD600E-4T-185G/200P	185	345	340							
KD600E-4T-200G/220P	200	385	380							
KD600E-4T-220G/250P	220	430	426	500	1170	1200	590	365	14	C
KD600E-4T-250G/280P	250	468	465							
KD600E-4T-280G/315P	280	525	520							
KD600E-4T-315G/350P	315	590	585	500	1255	1290	700	400	16	C
KD600E-4T-350G/400P	350	665	650							
KD600E-4T-400G/450P	400	785	725							
KD600E-4T450G/500P	450	883	820	/	/	1800	1000	500	/	C
KD600E-4T500G/550P	500	920	900							
KD600E-4T550G/630P	550	1020	1000							
KD600E-4T630G/710P	630	1120	1100							
KD600E-4T710G/800P	710	1315	1250	/	/	2200	1200	600	/	C
KD600E-4T800G/900P	800	1525	1450							

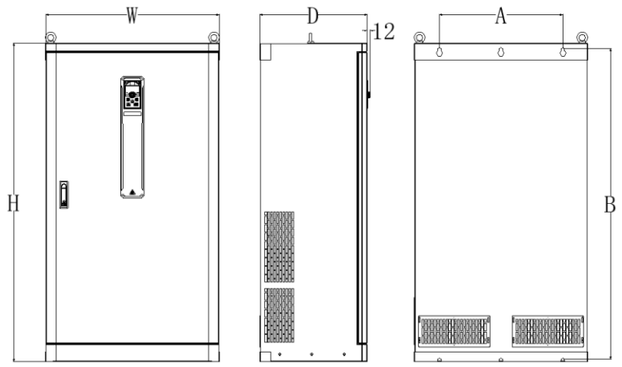
A



B



C



K-DRIVE
AC DRIVE

KD600/IP65 High protection AC Drive

KD600/IP65 series is a high protection perform-ance products, based on the KD600 platform developm-ent, efficient, intelligent, easy to use, econ-omy, quality, service as a whole. Realize synchronous, asynchronous motor integration drive, integration of various control, commu-nication, expansion and many other functions. Safe and reliable, excellent control!

POWER RATINGS

3 380 - 480V 1.5 - 132kW

COMPATIBILITY

Asynch motor control applicable

CONTROL TECHNOLOGY

V/Hz control
SVC1 SVC2 VC

FEATURES

- Flame retardant ABS thermoplastic polymer material, rice gold baking paint spray process, safer, more corrosion resistant;
- Built-in 105°C-10000h high quality capacitor, more durable;
- Independent air cooling design, longer life;
- 0.1s output 200% curve current protection, more vigorous;
- Equipped with PID, PLC function, more intelligent;
- A variety of phase, voltage, current, motor, drive protection, more comprehensive;
- Motor control mode optional, SVC speed sensorless vector control, more accurate;
- Thousands of groups of parameter Settings, more powerful;
- Wide voltage design -15% to +20%, more suitable.

CONTROL MODE SELECTION

Control mode	Speed control	Torque control	Position control	Applicable machine
VF	●			Asynchronous motor
Voltage-frequency separation	●			Torque motor, EPS power supply, series resonance
No PG high-performance vector	●	●		Asynchronous and permanent magnet synchronous
There are PG high-performance vectors	●	●	●	Asynchronous and permanent magnet synchronous

EXCELLENT PERFORMANCE

Control mode	Speed control	Torque control	Applicable machine
No PG high-performance vector	1:200	150%	Permanent magnet synchronous motor
No PG high-performance vector	1:100	150%	Asynchronous motor
There are PG high-performance vectors	1:1000	150%	Asynchronous, permanent magnet synchronous motor

SPECIFICATION AND MODEL

Product model	Output current (A)	Input current (A)	Adaptive motor (KW)
Single phase 220V range: -15% to 20%			
KD600/IP65-2S1.5G	14	7	1.5
KD600/IP65-2S2.2G	23	9.6	2.2
Three phase 380V range: -15% to 20%			
KD600/IP65-4T0.75GB	3.4	2.1	0.75
KD600/IP65-4T1.5GB	5.0	3.8	1.5
KD600/IP65-4T2.2GB	5.8	5.1	2.2
KD600/IP65-4T4.0GB	10.5	9.0	4.0
KD600/IP65-4T5.5GB	14.6	13.0	5.5
KD600/IP65-4T7.5GB	20.5	17.0	7.5
KD600/IP65-4T011GB	26.0	25.0	11.0
KD600/IP65-4T01 5GB	35.0	32.0	15.0
KD600/IP65-4T018GB	38.5	37.0	18.0
KD600/IP65-4T022GB	46.5	45.0	22.0
KD600/IP65-4T030G(B)	62.0	60.0	30.0
KD600/IP65-4T037G(B)	76.0	75.0	37.0
KD600/IP65-4T045G(B)	92.0	90.0	45.0
KD600/IP65-4T055G(B)	113.0	110.0	55.0
KD600/IP65-4T075G(B)	157.0	152.0	75.0
KD600/IP65-4T093G	180.0	176.0	93.0
KD600/IP65-4T110G	214.0	210.0	110.0
KD600/IP65-4T132G	256.0	253.0	132.0
KD600/IP65-4T160G	307.0	304.0	160.0
KD600/IP65-4T185G	345.0	340.0	185.0
KD600/IP65-4T200G	385.0	380.0	200.0
KD600/IP65-4T220G	430.0	426.0	220.0
KD600/IP65-4T250G	468.0	465.0	250.0
KD600/IP65-4T280G	525.0	520.0	280.0
KD600/IP65-4T315G	590.0	580.0	315.0
KD600/IP65-4T355G	665.0	650.0	355.0
KD600/IP65-4T400G	785.0	725.0	400.0

SPECIFICATIONS

Input & Output

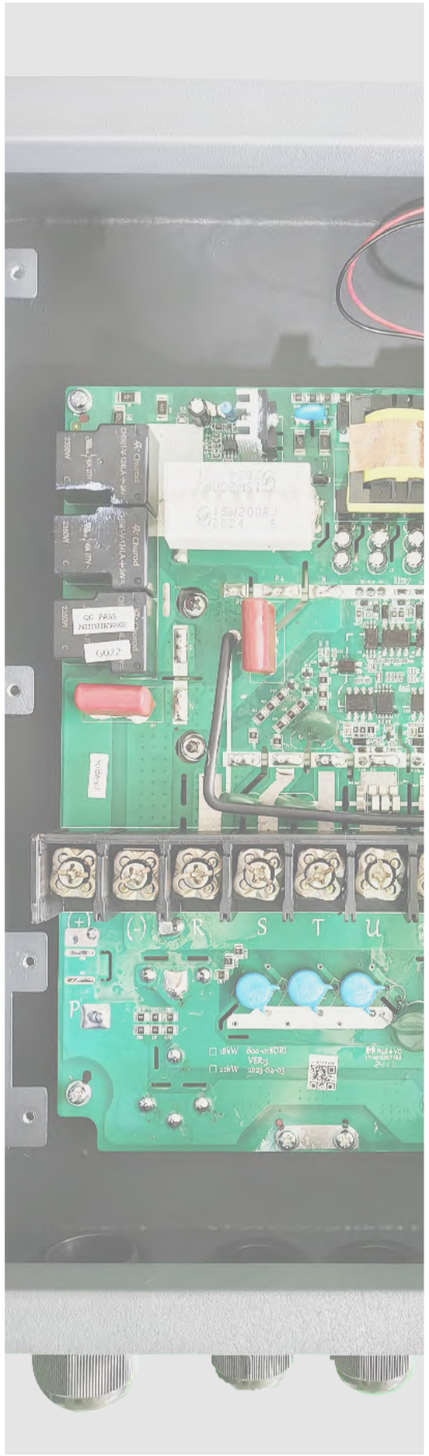
Input voltage	3AC 380~460V(± 15%)
Input frequency	50Hz/60Hz ±5%
Output voltage	0~input voltage, deviation <±3%
Output frequency	0~600Hz

Control Characteristics

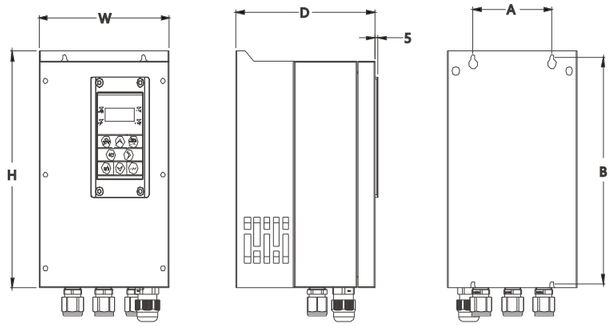
Control mode	V/F control Sensor-less vector control Torque control
Speed accuracy	±0,5% (V/F) ±0,2% (SVC)
Speed fluctuation	±0,3% (SVC)
torque response	< 10ms (SVC)
Starting torque	0,5Hz: 150% (V/F) 0,25Hz: 180% (SVC)
Overload capability	150% Rated current -60s 180% Rated current -10s 200% Rated current -1s
Simple PLC Multi-step speed	16 speed External digital signal control Internal clock
PID function	Standard build-in
Communication	Modbus

Featured functions

Featured functions	Input &Output delay Flexible parameters display AVR (Automatic Voltage Regulation) Timing control, fixed length control, etc. Simple PLC, 16-steps speed control Torque control build-in S curve acceleration/deceleration Multi-functional programmable keypad V/F separated control



MODEL AND SIZE



Product model	Mounting dimension (mm)		Overall dimensio (mm)			Aperture (mm)	Net weight (kg)
	A	B	H	W	D		
Single phase 220V range: -15% to 20%							
KD600/IP65-2S1.5G	100	230	240	165	176	Φ5	3.5
KD600/IP65-2S2.2G	100	230	240	165	176	Φ5	3.5
Three phase 380V range: -15% to 20%							
KD600/IP65-4T0.75GB	90	205	215	140	160	Φ5	3.5
KD600/IP65-4T1.5GB	90	205	215	140	160	Φ5	3.5
KD600/IP65-4T2.2GB	90	205	215	140	160	Φ5	3.5
KD600/IP65-4T4.0GB	100	230	240	165	176	Φ6	4.2
KD600/IP65-4T5.5GB	100	230	240	165	176	Φ6	4.2
KD600/IP65-4T7.5GB	120	264	275	177	200	Φ6	6
KD600/IP65-4T011GB	130	315	325	205	205	Φ6	8
KD600/IP65-4T015GB	130	315	325	205	205	Φ6	8
KD600/IP65-4T018GB	175	370	380	250	215	Φ6	11.8
KD600/IP65-4T022GB	175	370	380	250	215	Φ6	11.8
KD600/IP65-4T030G(B)	190	435	450	300	220	Φ7	17
KD600/IP65-4T037G(B)	190	435	450	300	220	Φ7	17
KD600/IP65-4T045G(B)	245	555	570	370	280	Φ10	30
KD600/IP65-4T055G(B)	245	555	570	370	280	Φ10	30
KD600/IP65-4T075G(B)	290	565	580	370	295	Φ10	45
KD600/IP65-4T093G	290	565	580	370	295	Φ10	45
KD600/IP65-4T110G	320	688	705	420	300	Φ10	65
KD600/IP65-4T132G	320	688	705	420	300	Φ10	65
KD600/IP65-4T160G	400	1330	1360	515	380	Φ14	124
KD600/IP65-4T185G	400	1330	1360	515	380	Φ14	124
KD600/IP65-4T200G	400	1330	1360	515	380	Φ14	124
KD600/IP65-4T220G	500	1480	1510	625	415	Φ14	175
KD600/IP65-4T250G	500	1480	1510	625	415	Φ14	175
KD600/IP65-4T280G	500	1480	1510	625	415	Φ14	175
KD600/IP65-4T315G	500	1620	1650	735	450	Φ14	228
KD600/IP65-4T355G	500	1620	1650	735	450	Φ14	228
KD600/IP65-4T400G	500	1620	1650	735	450	Φ14	228

K-DRIVE
AC DRIVE

CL100 Feedback Unit

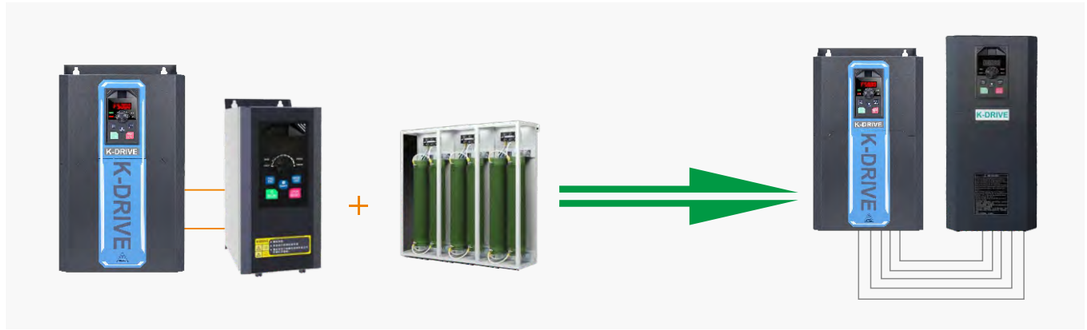
The CL100 eedback unit adopts advanced control algorithms, which have the characteristics of high efficiency, high power factor, and low harmonic interference. Applied in situations where electric energy regeneration and high requirements for harmonic and energy conservation and emission reduction are required during variable frequency speed regulation. The feedback unit ensures effective bra-king of variable frequency speed regulation while returning more than 97% of renewable energy to the power grid, achieving the goal of energy conservation and emission reduction.

CL100: Power Rate	3 phase input 3 phase output	380V (+-20%) 11KW~315KW

PRODUCT ADVANTAGE

01 Space saving

Small footprint, plug and play, easy to use. Compared to traditional energy consumption braking, it saves more space.



02 Economic energy-saving

Regenerated electricity is fed back to the power grid, which has higher economic efficiency and is more energy-efficient.

Compared to traditional energy consumption braking

Comprehensive energy-saving rate

Up to *20%~60%*

03 Low Pollution

Low harmonic pollution, THD<5%.

50Hz low-frequency harmonics

04 Built in MODBUS

Built in MODBUS communication protocol for centralized monitoring and external control of start stop.

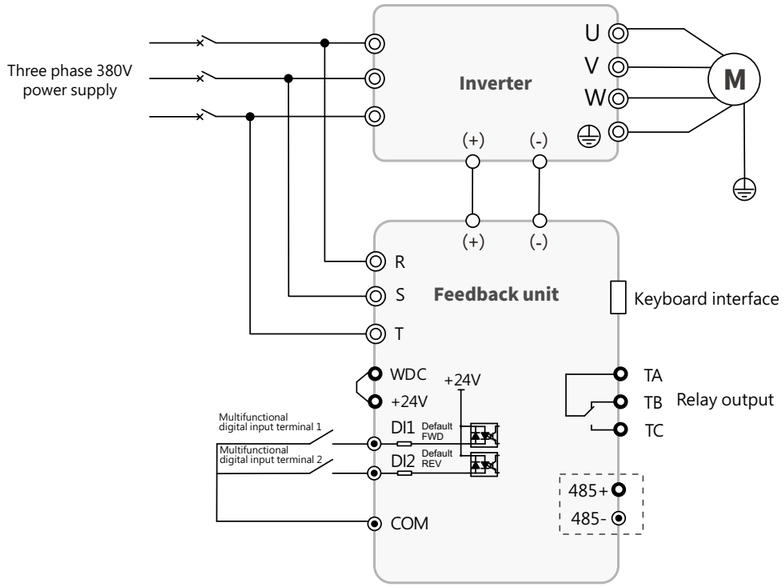
TECHNICAL SPECIFICATIONS

Project		Content
Source	Grid voltage	Three phase -380V
	Grid frequency	45Hz~65Hz
Control	Current control mode	Direct current control method
	Working mode	Rectification feedback/feedback
	Feedback starting voltage	620V
	Fan control	Parameter selection
	Overheat protection	90 ℃
Display	Status indication	Power indication, fault indication, feedback status indication, etc
Environment	Installation site	Indoor, altitude not exceeding 1000m, no direct sunlight, no conductive dust or corrosive gases
	ambient temperature	-10~40 ℃, well ventilated
	Environmental humidity	Below 90% RH (without condensation)
	Vibration degree	Below 0.5g

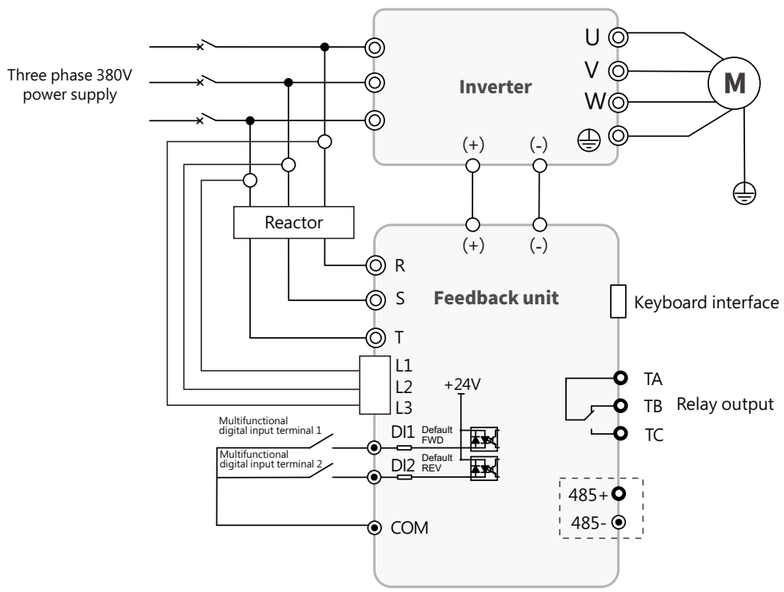
PRODUCT SELECTION

Model (50% DTC)	50% DTC rated current (A)	Peak current (A)	Adaptive asynchronous motor (kW)	Adapted synchronous motor (kW)
CL100-4T-11KW	20A	27A	11kW	7.5kW
CL100-4T-22KW	28A	37A	22kW	11kW
CL100-4T-30KW	34A	45A	30kW	22kW
CL100-4T-37KW	42A	54A	37kW	30kW
CL100-4T-45KW	57A	74A	45kW	37kW
CL100-4T-55KW	70A	91A	55kW	45kW
CL100-4T-75KW	85A	111A	75kW	55kW
CL100-4T-90KW	104A	136A	90kW	75kW
CL100-4T-110KW	137A	185A	110kW	90kW
CL100-4T-132KW	165A	223A	132kW	110kW
CL100-4T-160KW	209A	273A	160kW	132kW
CL100-4T-185KW	221A	326A	185kW	160kW
CL100-4T-220KW	250A	417A	220kW	185kW
CL100-4T-250KW	284A	475A	250kW	220kW
CL100-4T-280KW	319A	531A	280kW	250kW
CL100-4T-315KW	358A	600A	315kW	280kW

BASIC CONNECTION

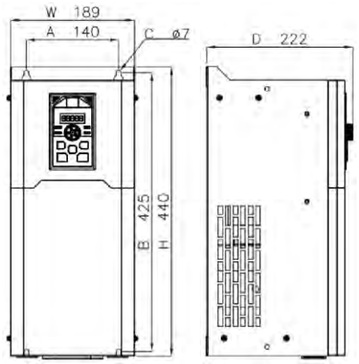


11~110KW Feedback Unit Wiring Diagram



132~315KW Feedback Unit Wiring Diagram

MODEL AND SIZE



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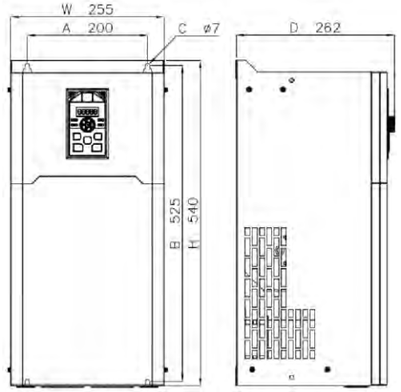

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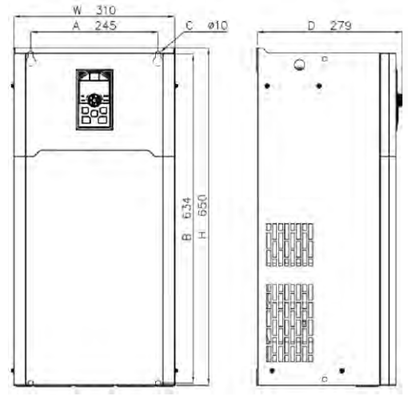
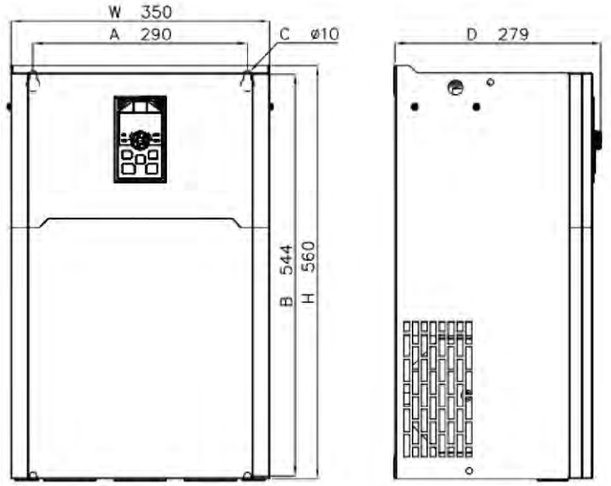


C

MODEL AND SIZE



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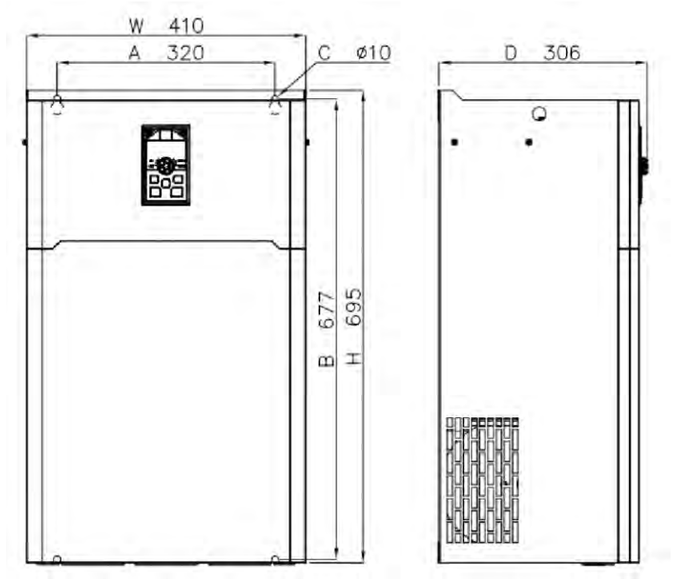


E

4T

AC Drive Model	Installation size (mm)		Dimensions (mm)			Aperture	Reactor	Frame NO.
	A	B	H	W	D	d		
CL100-4T-11KW	140	425	440	189	222	Φ7	Built-in	A
CL100-4T-22KW								
CL100-4T-30KW								
CL100-4T-37KW								
CL100-4T-45KW	200	525	540	255	262	Φ7	Built-in	B
CL100-4T-55KW								
CL100-4T-75KW								
CL100-4T90KW	245	634	650	310	279	Φ10	Built-in	C
CL100-4T-110KW								
CL100-4T-132KW	290	544	560	350	279	Φ10	External L1	D
CL100-4T-160KW								
CL100-4T-185KW								
CL100-4T-220KW	320	677	695	410	306	Φ10	External L1	E
CL100-4T-250KW							External L2	
CL100-4T-280KW								
CL100-4T-315KW								

K-DRIVE
AC DRIVE

CL200 four-quadrant inverter

CL200 series four-quadrant inverter ad-opts IGBT as rectification bridge, and uses DSP with high speed and high computing power to generate PWM control pulse. On the one hand, the input power factor can be adjusted to eliminate harmonic pollution to the power grid. On the ot-her hand, the energy generated by the motor can be returned to the power grid to achieve a thorough energy-saving effect. Products supp-ort three-phase asynchronous motor and permanent magnet synch-ronous motor control, strong performan-ce, stable and reliable, can be used in pumping units, cranes, elevators, lifts and other industries.

CL200: Power Rate	3 phase input 3 phase output	380V (+-20%) 18.5KW~315KW

PRODUCT ADVANTAGE

01 Powerful function

Stepless speed regulation, relative power frequency start-up, small impact on the power grid and equipment, extend the service life and maintenance cycle of the equipment, reduce the maintenance cost and downtime of the equipment;

Monitor the load of the well in real time according to the load current of the pumping unit. When the condition of the well changes, the system can automatically increase or decrease the number of strokes to improve the system efficiency;

Increase the power factor on the grid side of the drive to prevent small horse-drawn carts;

Identify the up and down strokes of the pumping unit in a working cycle through the integrated cabinet, and increase the crude oil production per unit time by high frequency oil extraction in the upper stroke and low frequency slowdown in the lower stroke;

For the special use environment of the oilfield site, unattended and remote monitoring, self-actuated frequency conver-sion switching, to ensure the stable operation of the product, while reducing the labor intensity of well patrol parameters.

02 High reliability

Long-Life Technology

Comprehensive monitoring of key components and PCB temperature rise, rational design, and high thermal red-undancy.

New generation device platform with large design margin

Adopting a new generation of IGBT and rectifier bridge hardware platform, higher configuration, and large de-sign margin.

Severe high and low temperature environment testing

High and low temperature cycle testing, able to maintain stable operation in extreme environments, with strong environmental adaptability.

Advanced three proof paint process design

The machine can import different three proof paint pr-ocesses according to the model and specifications of the single board, ensuring the uniformity of the prod-uct's three proof process and batch consistency.

03 Excellent performance

- Stable speed accuracy: ± 0.5% (SVC), ± 0.02% (FVC);
- Speed regulation range: 1:200 (SVC), 1:1000 (FVC);
- Torque response: < 40ms (SVC), < 10ms (FVC);
- In closed-loop vector mode, the torque linearity de-viation is within 3%. Stable torque output, high low-frequency torque, and convenient switching between torque mode and speed mode;
- Supporting multiple PG cards, supporting various encoder interfaces such as collector signals, differe-ntial signals, and rotary signals, facilitating closed-loop vector control;
- Capable of automatically identifying asynchronous induction motors and achieving high-performance vector control; Can achieve accurate setting of mot-or parameters for long-distance power cables under load conditions; Can automatically distinguish the direction of encoder signals under encoder condit-ions, simplifying the debugging process.

SPECIFICATIONS

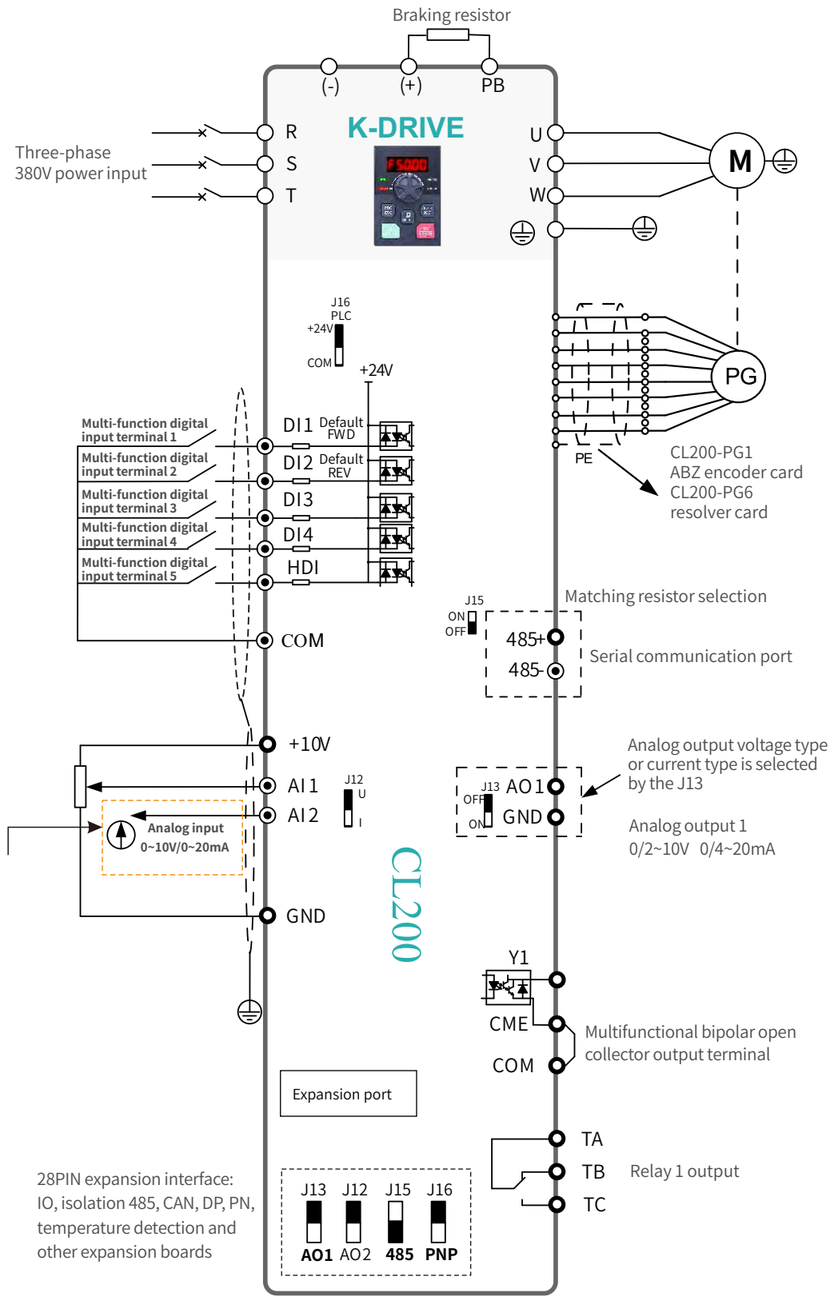
Control performance	
Frequency control range	0-300Hz
Output frequency accuracy	0.01Hz
Set frequency resolution	Digital setting: 0.01Hz; Simulation setting: AD conversion accuracy is one thousandth
Control mode	Three phase asynchronous motor: VF control, SVC, FVC Permanent magnet synchronous motor: SVC, FVC
Overload capacity	150% rated current for 60 seconds; 180% rated current for 1 second
Function Description	
V/F curve	Three methods: linear type; Multi point type; Square V/F curve
DC braking	DC braking frequency: 0.00 Hz to maximum frequency; Braking time: 0.0s~100.0s; Braking action current value: 0.0%~100%
Automatic Voltage Adjustment (AVR)	When the voltage of the power grid changes, it can automatically maintain a constant output voltage
Acceleration and deceleration curve	Linear or S-curve acceleration and deceleration; Four types of acceleration and deceleration times; 0.1~6500.0 seconds continuously adjustable

SPECIFICATIONS

Function Description	
Standard function	Motor parameter automatic detection function, open-loop vector, closed-loop vector, multi-point VF curve, manual torque increase, skip frequency function, carrier frequency automatic adjustment, start DC brake, stop DC brake, instantaneous power outage restart, automatic fault reset, 16 segment multi speed operation, simple PLC program operation, textile swing frequency function, closed-loop PID adjustment control
Control characteristics	Automatic torque increase, automatic slip compensation, automatic stable output voltage, speed tracking start function, overcurrent suppression during acceleration, overcurrent frequency reduction function at constant speed, overvoltage suppression during deceleration, and automatic energy-saving operation
Run Command Channel	Three control methods: keyboard control, terminal control, and serial communication control
Frequency source selection	Digital setting, analog voltage setting, analog current setting, and serial communication port setting; Multiple ways to combine and switch
Frequency source	There are a total of 10 frequency sources: digital given, analog voltage given, analog current given pulse given, and serial communication given. It can be switched in multiple ways
Auxiliary frequency source	10 types of auxiliary frequency sources. Flexible implementation of auxiliary frequency fine-tuning and frequency synthesis
Input terminals	Standard with seven digital input terminals, up to nine digital input terminals (AI1 and AI2 can be used as DI terminals), compatible with active PNP or NPN input methods Two analog input terminals, where AI1 can only be used as voltage input and AI2 can be used as voltage or current input
Output terminal	One digital output terminal (bipolar output) Two relay output terminals Two analog output terminals, optional from 0/4mA to 20mA or 0/2V to 10V, can output physical quantities such as set frequency, output frequency, and speed
Protection function	Overvoltage protection, undervoltage protection, overcurrent protection, module protection, radiator overheating protection, motor overload protection, external fault protection, current detection abnormality, input power supply abnormality, output phase loss abnormality, EEPROM abnormality, relay suction abnormality
Display	
LED display	Display parameters, support parameter copying
LCD display	Optional, Chinese/English prompt operation content, supporting parameter copying
Protection level	IP20
Operating environment	
Installation site	Vertically installed in a well ventilated electrical control cabinet, in an environment free of dust, corrosive gases, flammable gases, oil mist, steam, and dripping water, and not exposed to direct sunlight
Ambient temperature	-10°C to+40°C (If the ambient temperature is higher than 40 ° C, please reduce the rated output current by 1% for every 1°C increase)
Altitude	0-2000 meters, for use with a reduction of 1000 meters or more, for every 100 meters increase, the rated output current decreases by 1%
Humidity	20% to 90% RH (without condensation)
Vibration	Less than 5.8 meters per square second (0.6g)
Storage temperature	-25°C to+65°C

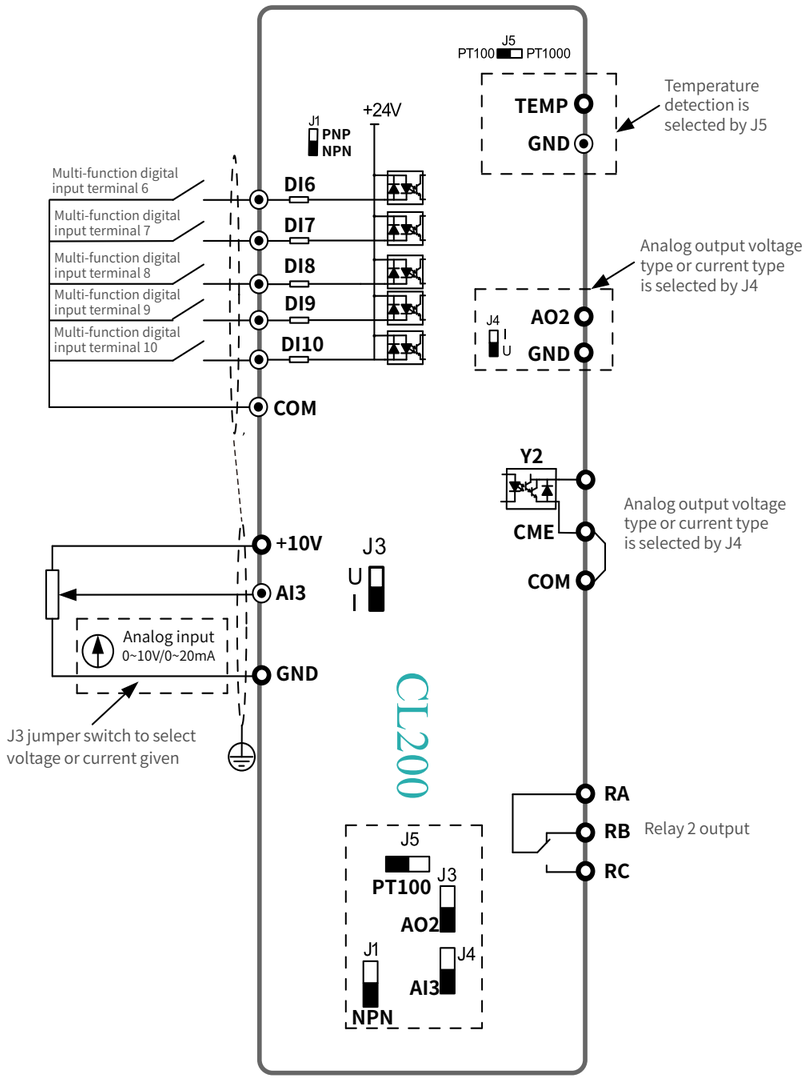
BASIC CONNECTION

CL200-4T-18.5-315KW



BASIC CONNECTION

CL00-IO1 expansion card



MODEL AND SIZE

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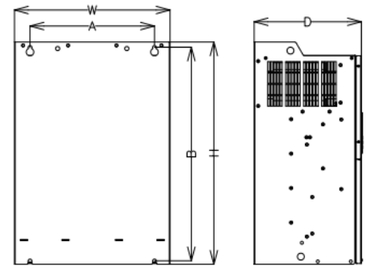

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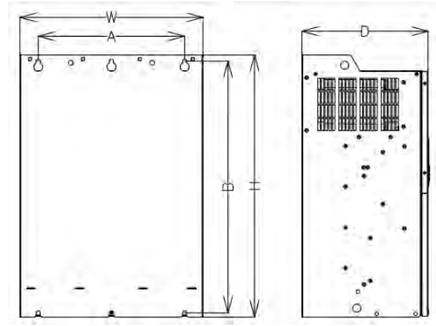

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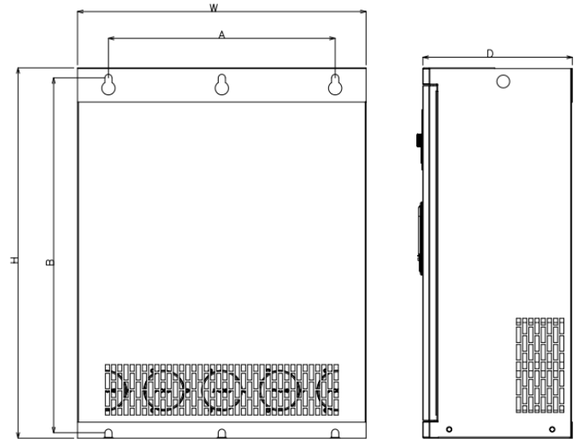
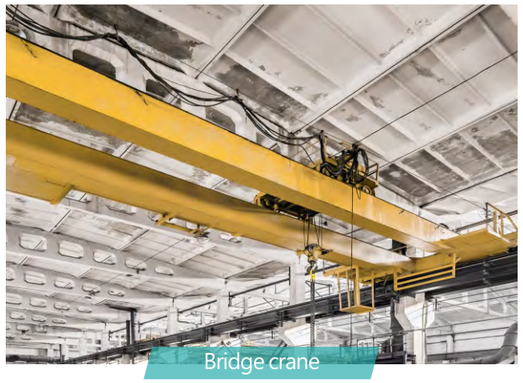


4T

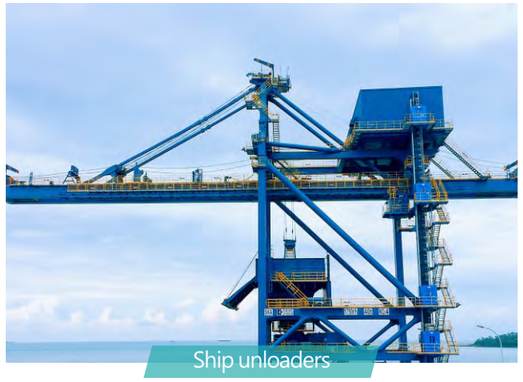
AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture	Frame NO.
				A	B	H	W	D	d	
CL200-4T-18.5KW	18.5	38	37	300	575	592	360	220	Φ8	A
CL200-4T-22KW	22	46	45							
CL200-4T-30KW	30	62	60							
CL200-4T-37KW	37	76	75							
CL200-4T-45KW	45	92	90	360	620	645	450	310	Φ10	B
CL200-4T-55KW	55	113	110							
CL200-4T-75KW	75	157	150	440	690	720	560	290	Φ12	C
CL200-4T-93KW	93	180	176							
CL200-4T-110KW	110	214	210	700	717.5	750	820	300	Φ12	C
CL200-4T-132KW	132	256	253							
CL200-4T-160KW	160	307	304	720	1026	900	960	330	Φ12	C
CL200-4T-185KW	185	345	340							
CL200-4T-200KW	200	385	380							
CL200-4T-220KW	220	430	426	900	933	965	1175	350	Φ12	C
CL200-4T-250KW	250	468	465							
CL200-4T-280KW	280	525	520							
CL200-4T-315KW	315	590	585							

The CL200-4T-18.5KW~55KW filtering reactor is built-in, and the CL200-4T-75KW~315KW filtering reactor is external.

APPLICATION CASES


Bridge crane


Injection machine


Ship unloaders


Pumping unit


Elevator


Conveyer belt

K-DRIVE
AC DRIVE

CE100 Variable frequency drive for freight construction elevators

HIGH INTEGRATION

HIGH CONTROL PRECISION

CE100 series variable frequency driver is a special model developed for the electronic control of ca-rgo construction lifts. The system int-egrates the functions of frequency converter, wireless video surveill-ance, wireless voice intercom, wireless re-mote control, logic control unit, brake control unit and weight limiter in one, and can choose three installation methods: wall hanging, semi-embedded and fully embedded. It has the ad-vantages of comprehensive functions, st-able pe-rformance, beautiful appearance, easy installation and ma-intenance, and provides customers with a set of high-performance and complete solutions.

CL200: Power Rate	3 phase input 3 phase output	380V (+-20%) 18.5KW~315KW

PRODUCT ADVANTAGE

01 Wireless video surveillance

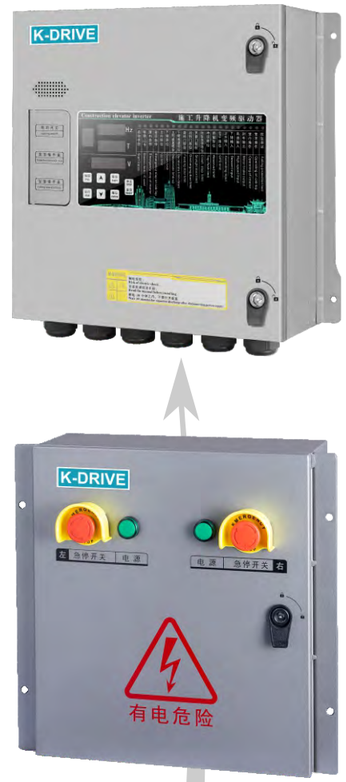
For the first time in the industry, fisheye camera is used, and there is no dead Angle in the elevator cage monitoring;

02 Automatic leveling function

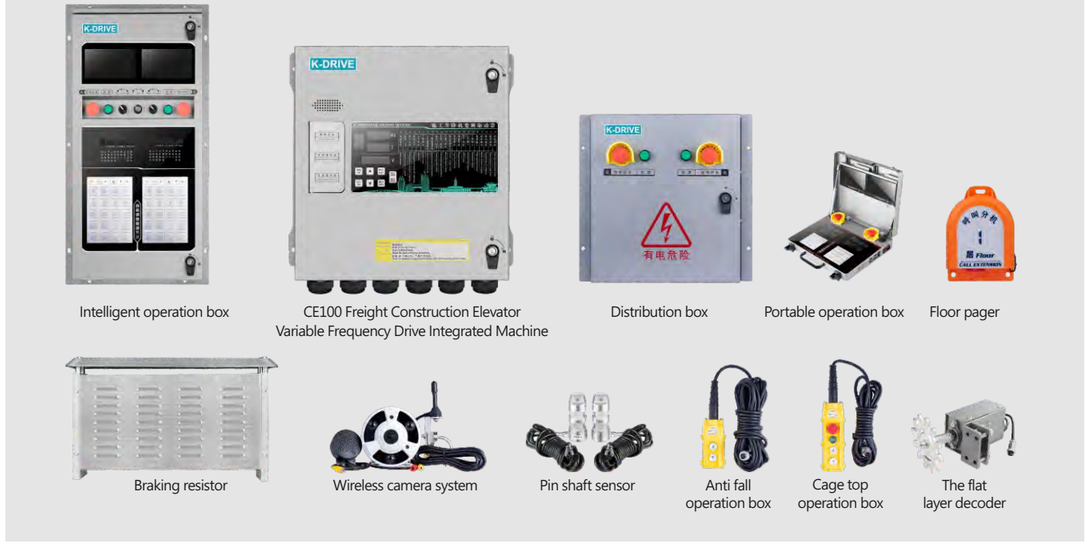
Reduce the work intensity of the operator driver, automatically run in place after entering the floor, and the level position is accurate (≤5mm);

03 Floor caller control function

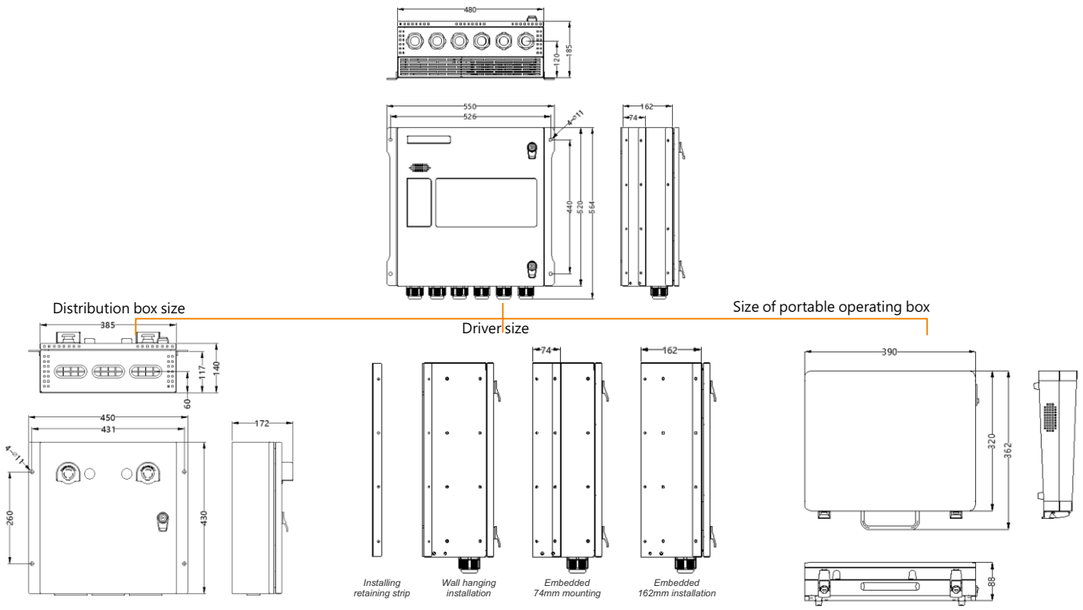
After meeting the operating conditions of the lift, press the floor caller of the corresponding floor, the lift will automatically run to the floor, the wor-ker will close the discharge door after handling things, press the floor caller of the floor, the lift will automatically run to the first floor.



COMPLETE SYSTEM COMPOSITION



PRODUCT PARAMETER



K-DRIVE
AC DRIVE

CE200 Man-cargo elevator special inverter

CE200 series variable frequency driver is a special model developed for the electric control of construction lifts. The system integrates the functions of frequency converter, brake unit, logic control unit, brake control unit and weight limiter in one, and can choose three installation methods: wall hanging, semiembedded and fully embed-ded, with comprehensive functions, stable performance, beautiful appearance, easy installation and maintenance. To provide custom-ers with a set of high-performance, complete solutions.

PRODUCT ADVANTAGE

01 Rich door panel display

Operating frequency and load information are dis-played in real time on the door panel, and all lim-it, handle input and brake output status are pro-mpted by separate indicators;

02 Rich voice function

Voice broadcast content is rich, common faults have a separate voice prompt, combined with the door panel display information, greatly improve the efficiency of on-site fault diagnosis;

03 Brake resistance short circuit protection

Built-in brake unit with brake resistance short-circuit protection function;

04 Brake coil short circuit protection function

Real-time monitoring of the brake coil current value, abnormal situation immediately cut off the input, protect the brake coil and internal devices;

PRODUCT ADVANTAGE

05 Man-machine interface function

The interface display is optimized and upgraded, using pictures instead of text description, and ad-ding fault recording function interface;

06 Automatic leveling function

Reduce the work intensity of the operator driver, automatically run in place after entering the floor, and the level position is accurate (⩽5mm).

08 Dedicated lock control logic

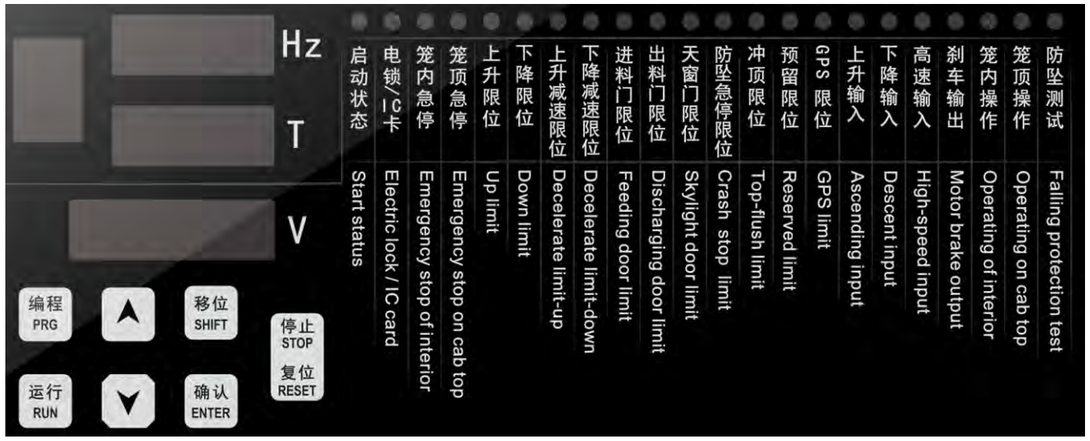
Through the release current, release frequency, re-lease delay time and so on, the special lock contr-ol logic is realized to ensure the safe and reliable operation of the lift.

07 Pre-authorization function

The built-in perpetual calendar clock can be set for three perio-ds of device authorization time, and each of the three periods can be set independent passwords, which is convenient for us-ers to manage the installment payment of the device.

Man-machine interaction interface

The door panel screen is displayed



COMPLETE SYSTEM COMPOSITION

Braking resistor

CE200 series dual-purpose construction elevator with variable frequency drive integrated machine

The flat layer decoder

Control panel

Wireless camera system

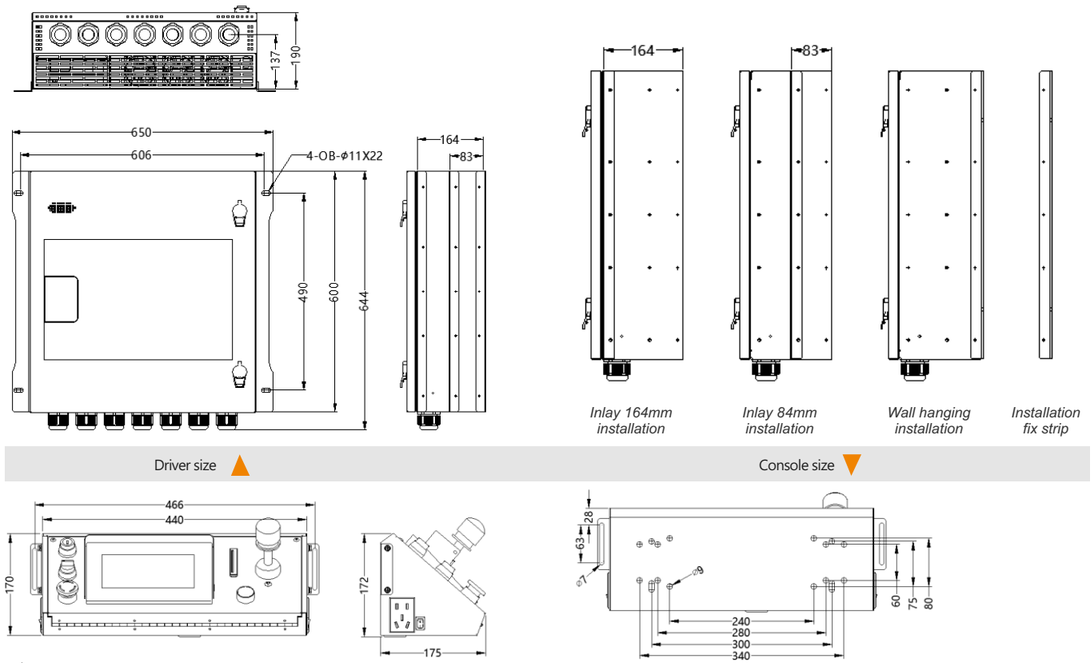
Floor pager

Pin shaft sensor

Cage top operation box

Anti fall operation box

PRODUCT PARAMETER



Inlay 164mm installation

Inlay 84mm installation

Wall hanging installation

Installation fix strip

Driver size

Console size

K-DRIVE
AC DRIVE

CF600 Industrial ceiling fan inverter machine

HIGH INTEGRATION

HIGH CONTROL PRECISION

CF600 industrial fan machine is mainly composed of variable frequency driver, power-on knob switch, speed regulating positioner and LCD display. Set a variety of functions, smooth start ultra-quiet, small size, easy operation, energy saving and other advantages. Automatic identification of motor position, stable operation in the full speed range, 5HZ low frequency can output rated torque.

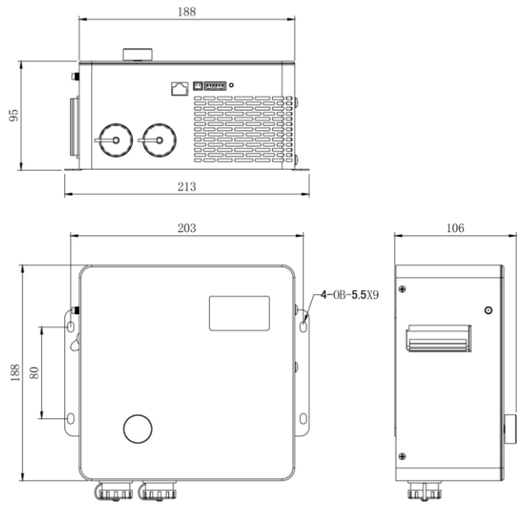
Compatible with asynchronous, synchronous motor control, while supporting a variety of expansion accessories.

RATED PARAMETER

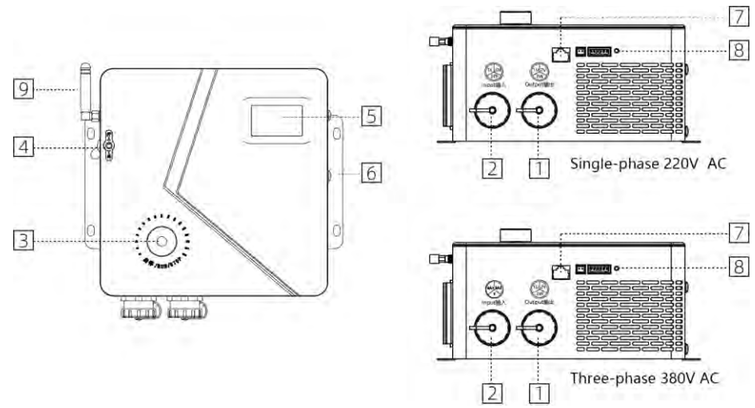
Model	Power (KW)	Input voltage(V)
CF600-3SR75G	0.75	200~240(single or three phase)
CF600-3S1R5G	1.5	
CF600-4TR75	0.75	380V~440V(three -phase)
CF600-4T1R5	1.5	
CF600-4T2R2	2.2	

Model	Input current	Output current
CF600-3SR75G	8.2	4
CF600-3S1R5G	14	7
CF600-4TR75	3.4	2.1
CF600-4T1R5	5.9	3.8
CF600-4T2R2	8	5.1

PRODUCT SIZE

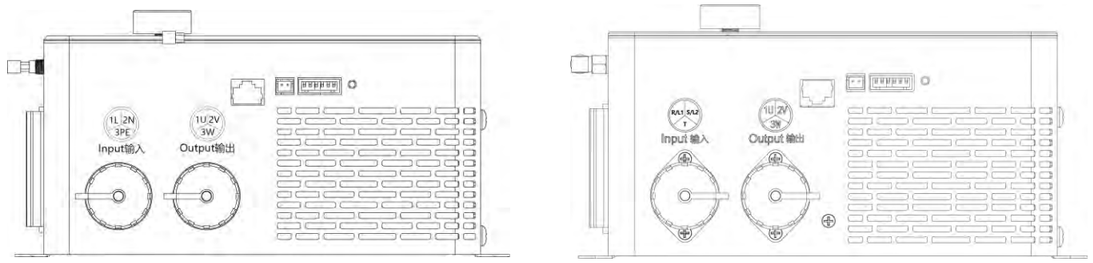


APPEARANCE FUNCTION



Number	Name	Function description
①	Total power control area	The main power switch of the controller is ON. OFF indicates off; The factory setting is OFF
②	Power input cable aviation plug	Power input connector
③	Liquid crystal display area	Display the actual motor speed and alarm parameters
④	Operating knob	Start, stop, speed control function, clockwise rotation, speed from 0 to rated speed
⑤	Parameter debugging interface	Standard network cable interface, used when debugging product parameters
⑥	Hide key	One key self-study key, manufacturers debug
⑦	Motor line aviation plug	Connect the motor input cable

TERMINAL



Terminal symbol		Terminal name	Function description
Input power supply	R/L1	Three-phase (single-phase) main circuit power input	Three-phase AC power input terminal, connected to the power supply
	S/L2		
	T		
Grounding	PE(PE)		
Output motor	U	Industrial ceiling fan output terminal	Three-phase output terminal, connected to the motor
	V		
	W		

K-DRIVE
AC DRIVE

CBR600 Universal energy consumption brake unit

CBR600 series energy consumption braking units are mainly used in large inertia loads, four-quadrant loads, fast stops and long time energy feedback occasions. During the braking of the driver, due to the mechanical inertia of the load, the kinetic energy will be converted into electric energy and fed back to the driver, resulting in the DC bus voltage of the driver rising. The energy consumption brake unit converts excess electrical energy into resistive thermal energy consumption to prevent excessive bus voltage from damaging the driver. The energy consumption brake unit has over current, over voltage, over temperature, brake resistance short circuit protection, etc. With the parameter setting function, the user can set the braking start and stop voltage; It can also realize the need of high power driver braking through master and slave parallel.

PRODUCT CHARACTERISTICS

Voltage level:
AC380V and AC690V

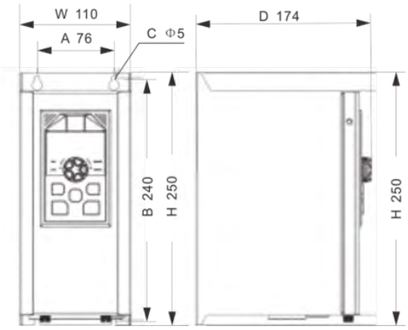
Support LED and LCD display, flexible parameter Settings.

IP21 protection class

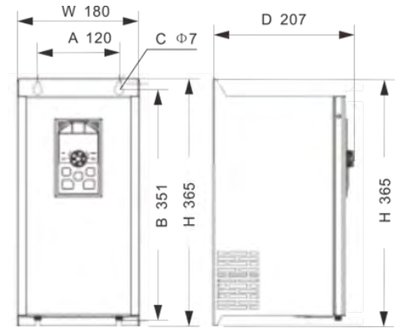
Power range:
37KW to 800KW

PRODUCT MODEL AND SPECIFICATION

Brake unit type	Voltage level (V)	Minimum allowable resistance (Ω)	Peak current (A)	Maximum adaptive inverter power (KW)	Cable cross-sectional area (mm^2)
CBR600-4T037	380	24	32	37	6
CBR600-4T075	380	12	60	75	6
CBR600-4T132	380	6.8	110	132	10
CBR600-4T200	380	3.4	210	200	10
CBR600-4T315	380	2.3	310	315	16
CBR600-4T450	380	1.5	470	450	16
CBR600-4T630	380	1.0	700	630	25
CBR600-7T037	690	40	30	37	6
CBR600-7T075	690	20	60	75	6
CBR600-7T132	690	12	90	132	10
CBR600-7T200	690	6	190	200	10
CBR600-7T315	690	4	280	315	16
CBR600-7T450	690	2.6	430	450	16
CBR600-7T630	690	1.8	630	630	25
CBR600-7T800	690	1.7	650	800	25



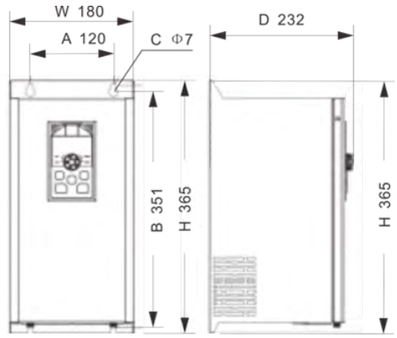
CBR600-4T132/CBR600-7T132 and below installation dimensions hole position diagram



CBR600-4T200 and below installation dimensions hole position diagram

DIMENSIONS OF MOUNTING HOLES

Model	Installation size (mm)		Dimensions (mm)			Aperture
	A	B	H	W	D	d
CBR600-4T037	76	240	250	110	174	Φ5
CBR600-4T075	76	240	250	110	174	Φ5
CBR600-4T132	76	240	250	110	174	Φ5
CBR600-4T200	120	351	365	180	207	Φ7
CBR600-4T315	120	351	365	180	207	Φ7
CBR600-4T450	120	351	365	180	207	Φ7
CBR600-4T630	120	351	365	180	207	Φ7
CBR600-7T037	76	240	250	110	174	Φ5
CBR600-7T075	76	240	250	110	174	Φ5
CBR600-7T132	76	240	250	110	174	Φ5
CBR600-7T200	120	351	365	180	207	Φ7
CBR600-7T315	120	351	365	180	207	Φ7
CBR600-7T450	120	351	365	180	207	Φ7
CBR600-7T630	120	351	365	180	207	Φ7



CBR600-7T200 and below installation dimensions hole position diagram

P100S Servo Drive and Motor

✧The response frequency is up to 1.5Khz, which is especially suitable for applications requiring high-speed response;

✧The drive menu, control interface, parameter modification and write operation are consistent with the Panasonic A5 series servo drive;

✧The encoder interface of the A-type servo driver is the same as the Panasonic A5 series servo drive,and can directly carry the Panasonic A5 and A6 servo motors;

✧Our drive can directly drive the direct drive motor, support up to 23-bit absolute encoder;

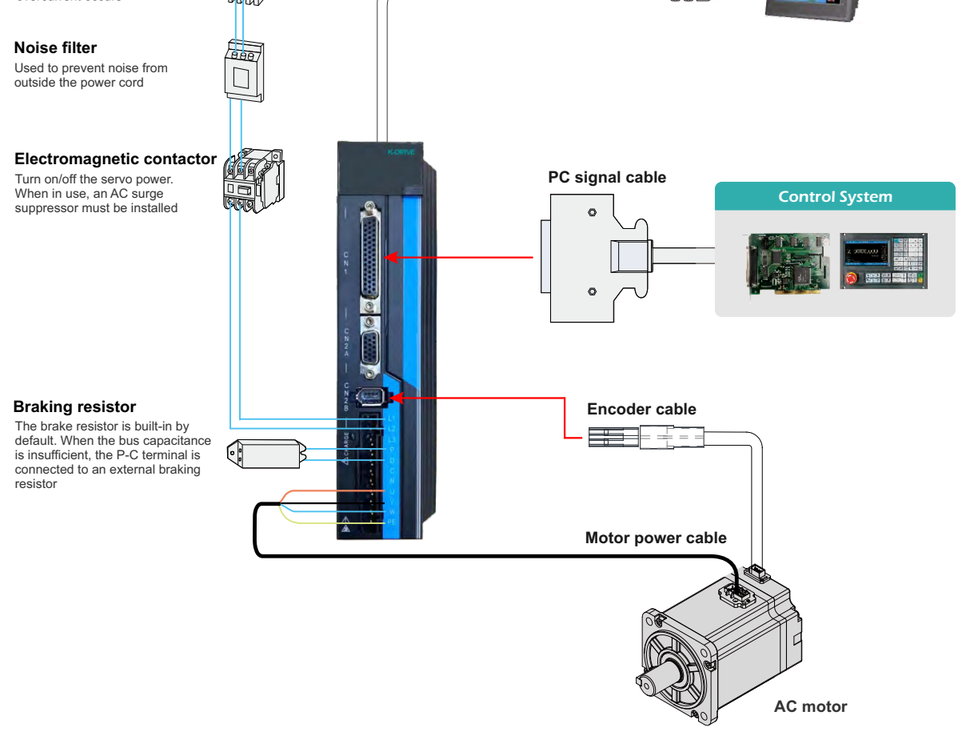
✧There are electronic cam special machines and internal location special machine available;

✧Our drive is currently used in robots, loading and unloading, winding machine, die cutting machine,3C processing, carving, textile, SCARA robot, tensile machine, capping machine, labeling machine and other automation equipment.

MOTOR AND DRIVE ADAPTATION TABLE

Item No.	Motor Power (kw)	Rated Torque (N.m)	Rated Speed (R/Min)	Voltage (V)	Shaft diameter
Input voltage: Single-phase 220V Range: -15%~20%					
60 Flange	0.4	1.3	3000	220	14
80 Flange	0.75	2.4	3000		19
	1.1	4	2500		19
110 Flange	1.5	5	3000		19
	1.8	6	3000		19
130 Flange	2	7.7	2500		22
	2.3	15	1500		22
	2.6	10	2500		22
	3	15	2000		22
	3.8	15	2500		22

DRIVER WIRING DIAGRAM



KSS80 Series Soft Starter

✧Reduce the starting current of the motor, reduce the distribution capacity, and avoid investment in capacity expansion;

✧Reduce starting stress and extend the service life of motors and related equipment;

✧Smooth start and soft stop avoid the surge problem and water hammer effect of traditional starting equipment;

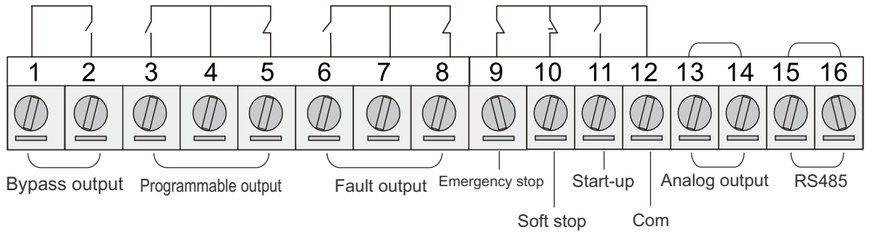
✧A variety of starting modes and a wide range of current and voltage settings, can adapt to a variety of load occasions, improve the process;

✧Improve the reliable protection function, more effective-ly protect the safety of the motor and related equipment;

✧Can be used for frequent start and stop The occasion.

Items	Specification
Certification/QCS	CE, TUV/ISO9001
（VAC）Three-phase power supply voltage	380V±15%
Frequency	50Hz
Apply to the motor	Rattrap type three-phase asynchronous motor
Starting frequency	IP40 (Negotiable)
Power of resisting voltaic impingement	15g/11ms
Shock resistance	Below 3000m above the ground, vibration power plant under 0.5G
Environment temperature/working temperature	-10℃ to +40℃ w/o derating (between 40℃-60℃, rasing each 1℃ will cause 1.2% current derating)
Storage temperature	90% RH in Max. (no dewing)
Maximum working height	Below 1000 meters non-condensing (more than 1000 meters, each additional 100 meters, the current reduced by 0.5%)
Type of cooling	Natural air cooling
Vertical installation location relative to the maximum working angles	No requirement

TERMINAL SHOW



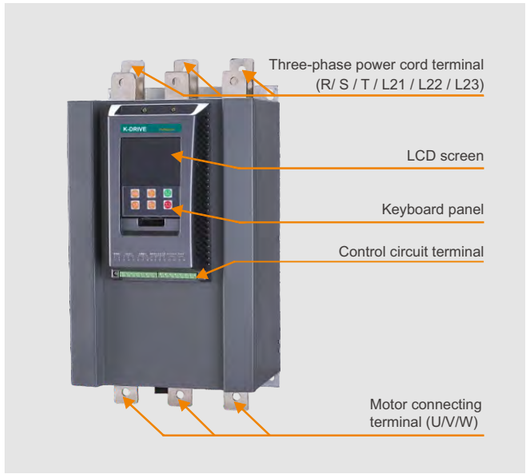
220V/380V/660V-50/60Hz	Rated motor power			Model appearance
Max working current	220V	280V	660V	Please refer to the following page
38A	9KW	18.5KW	30KW	R1
44A	11KW	22KW	37KW	
60A	15KW	30KW	45KW	
74A	18.5KW	37KW	55KW	
100A	22KW	45KW	75KW	
110A	30KW	55KW	95KW	
150A	37KW	75KW	115KW	
160A	45KW	95KW	132KW	R2
200A	55KW	115KW	160KW	
250A	75KW	132KW	200KW	
300A	95KW	160KW	250KW	
360A	115KW	200KW	355KW	
480A	132KW	250KW	400KW	R3
590A	160KW	315KW	500KW	
660A	—	355KW	630KW	
790A	200KW	400KW	710KW	
1000A	250KW	500KW	900KW	
1200A	355KW	630KW	—	

✧The rated power in the table is standard load power,when the load is heavy or the application is special, should select a higher rated power rating.

OPTIONAL ACCESSORIES TABLE

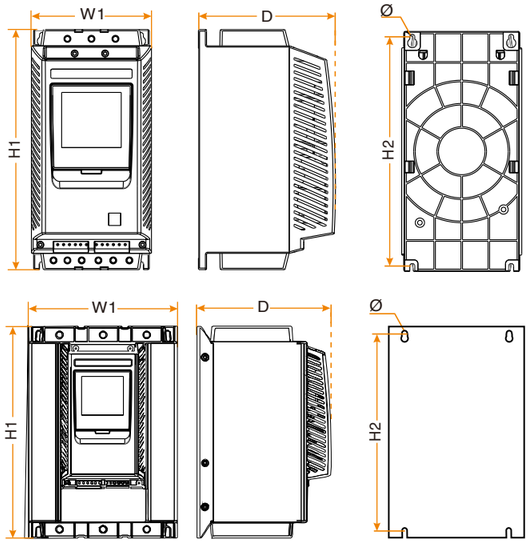
Attachment name	Selection Number	Option Description
Panel outside extension cable	A3	The digital part is mean the cable length
English LCD Panel	E	
Modbus communiction card	M	Some models offer dafault presets
Profibus communication card	P	
CAN Open communication card	C	

TERMINALS



BASIC WIRING DIAGRAM

SIZE



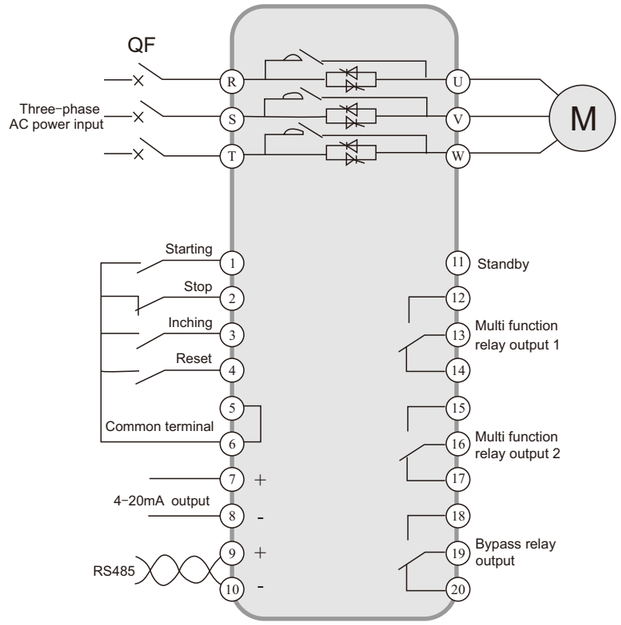
Outline Dimension (mm)			Installing Dimension(mm)			Package size (cm)	G.W. (kg)
H1	W1	D	H2	W2	Ø		
R1							
190	110	150	178	98	M6	38*23.5*27.5	5
R2							
210	130	160	236	141	M8	65*39*38	20.5
R3							
250	155	176	236	141	M8	57.5*43*39	31
R4							
295	176	188	279	160	M8	65*40*38	27

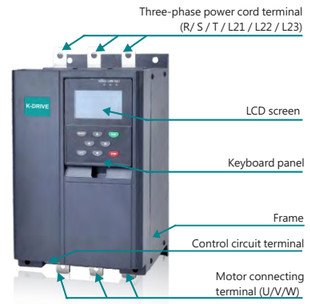
K-DRIVE
AC DRIVE

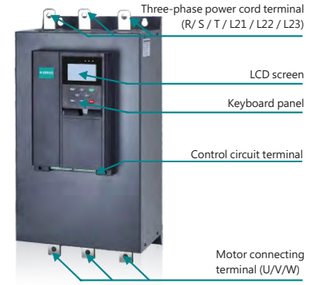
KSS90 Soft Starter

- Reduce the starting current of the motor, reduce the distribution capacity, and avoid investment in capacity expansion;
- Reduce starting stress and extend the service life of motors and related equipment;
- Smooth start and soft stop avoid the surge problem and water hammer effect of traditional starting equipment;
- A variety of starting modes and a wide range of current and voltage settings, can adapt to a variety of load occasions, improve the process;
- Improve the reliable protection function, more effectively protect the safety of the motor and related equipment;
- Can be used for frequent start and stop The occasion.

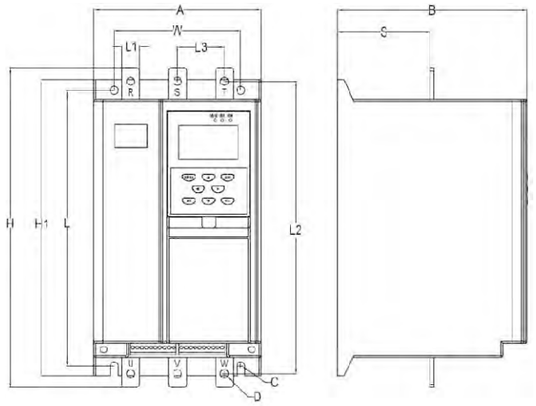
WIRING DIAGRAM



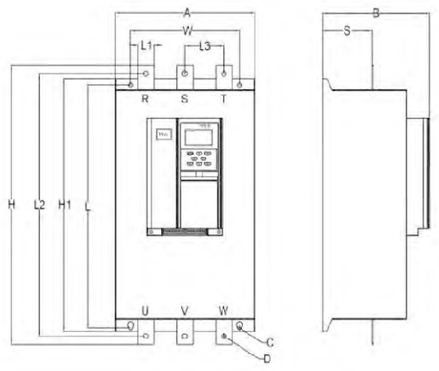




PRODUCT SIZE



Rr1 Outline and copper bar structure diagram



RR2-RR3 Outline and copper bar structure diagram

Model	Overall dimension (A×B×H×H1)	Mounting dimensions (W×L)	Mounting screws	Structure code	Remarks
KSS90-4T-015	185×210×348×325	140×305	M6	RR1	Plastic shell wall hang
KSS90-4T-022	185×210×348×325	140×305	M6	RR1	
KSS90-4T-030	185×210×348×325	140×305	M6	RR1	
KSS90-4T-037	185×210×348×325	140×305	M6	RR1	
KSS90-4T-045	185×210×348×325	140×305	M6	RR1	
KSS90-4T-055	185×210×348×325	140×305	M6	RR1	
KSS90-4T-075	300×250×605×560	215×536	M8	RR2	Metal wall hanging
KSS90-4T-090	300×250×605×560	215×536	M8	RR2	
KSS90-4T-110	300×250×605×560	215×536	M8	RR2	
KSS90-4T-132	300×250×605×560	215×536	M8	RR2	
KSS90-4T-160	300×250×605×560	215×536	M8	RR2	
KSS90-4T-185	300×250×605×560	215×536	M8	RR2	
KSS90-4T-200	340×260×661×615	265×590	M8	RR3	
KSS90-4T-250	340×260×661×615	265×590	M8	RR3	
KSS90-4T-280	340×260×661×615	265×590	M8	RR3	
KSS90-4T-320	340×260×661×615	265×590	M8	RR3	

Structure code	L1×L2×L3	S	D
RR1	20×322×52	103	M8
RR2	30×570×96	115	M10
RR3	40×627×106	118	M10

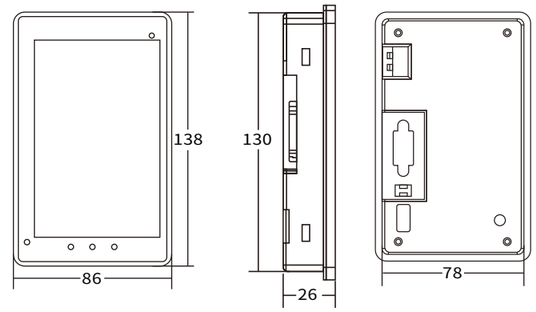
KD SERIES 4.3 INCH HMI

Features

Project	Content
powered by	Wide input DC10-30V
Backlight adjustment	Support
Touch screen	4-wire resistive touch screen
LCD screen resolution	480×272
CPU	32-bit 600MHz ARM9
USB1	Micro USB, download port
USB2	TYPE-A, U disk port
LCD screen	Normal viewing angle, 300cd/m²
COM1 communication	RS422RS232/RS485 communication (choose one out of three)
COM2 communication	RS232/RS485 communication (optional)
Storage	128Mbyte SPI NAND FLASH
Power supply	Anti-reverse connection, distinguish the positive and negative poles of the power supply.
RTC clock	Support
Power-off data saving	Support
Download	SD card, USB download, U disk

Product Size

Product number	Overall size	Hole Size
KD043W01RGA	138mm×86mm×26mm	130mm×78mm



Product number

Model	Specifications
KD043W01RGA	Full viewing angle LCD screen, 485,422,232 standard DB9 communication ports, support U disk download and data export

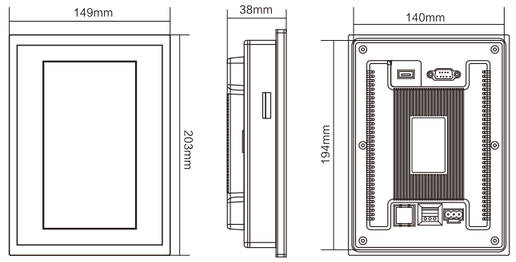
KD SERIES 7 INCH HMI

Features

Project	Content
powered by	Wide input DC10-30V
Backlight adjustment	Support
Touch screen	4-wire resistive touch screen
LCD screen resolution	800×480
CPU	32-bit 600MHz ARM9
USB1	Micro USB, download port
USB2	TYPE-A, U disk port
LCD screen	Normal viewing angle, >400cd/m²
COM1 communication	Rs422, RS232/RS485 communication (choose one out of three)
COM2 communication	RS232/RS485 communication (optional)
Storage	128Mbyte SPI Nand FLASH
Power supply	Anti-reverse connection, distinguish the positive and negative poles of the power supply
RTC clock	Support
Power-off data saving	Support
Download	SD card, USB download, U disk

Product Size

Product number	Overall size	Hole Size
KD070W01RAG	149mm×203mm×38mm	194mm×140mm



Product number

Model	Specifications
KD070W01RAG	7-inch resistive touch screen, 485,422,232 standard communication, support U disk download and data export, 1 COM
KD070W01RAG (dual serial port 232 or 485)	7-inch resistive touch screen, 485, 422, 232 standard communication, support U disk download and data export, 2 COM communication, the second channel 485 or 232 choose one

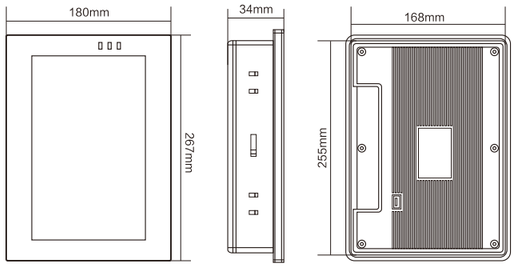
KD SERIES 10 INCH HMI

Features

Project	Content
powered by	Wide input DC10-30V
Backlight adjustment	Support
Touch screen	4-wire resistive touch screen
LCD screen resolution	1024×600
CPU	32-bit 600MHz ARM9
USB1	TYPE-C, download port
USB2	TYPE-A, U disk port
LCD screen	normal viewing angle, >250cd/m²
COM1 communication	RS422, RS232/RS485 communication (choose one out of three)
COM2 communication	RS232/RS485 communication (optional)
Storage	128Mbyte SPI Nand FLASH
Power supply	Anti-reverse connection, distinguish the positive and negative poles of the power supply
RTC clock	Support
Power-off data saving	Support
Download	SD card, USB download, U disk

Product Size

Product number	Overall size	Hole Size
KD101W01RAG	180MM×267MM×34MM	255MM×168MM

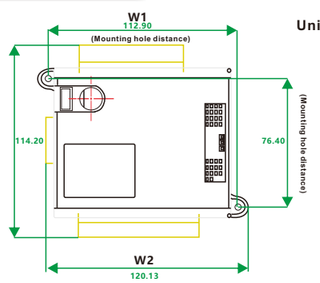


Product number

Model	Specifications
KD101W01RAG	10-inch resistive touch screen, 485,422,232 standard communication, support U disk download and data export, 1-way COM communication
KD101W01RAG (dual serial port 232 or 485)	10-inch resistive touch screen, 485, 422, 232 standard communication, support U disk download and data export, 2 COM communication, the second channel 485 or 232 choose one

R3U SERIES PLC

Dimension



Unit:mm

Model	W1 Size (UNIT :MM)	W2 Size (UNIT :MM)	Weight (unit :Kg)
R3U-16M2T / R3U-16M2R	112.9	120.13	0.35
R3U-24M2T / R3U-24M2R	112.9	120.13	0.42
R3U-36M4T / R3U-36M4R	144.2	156.8	0.64

General specification

Ambient Temperature	Use：-20~55℃，Storage：-40~70℃				
Relative Humidity	Use：35~85%RH（No condensation）				
Earthquake Resistance	Conform to jisc0040 standard				
		Frequency	Acceleration	Vibration	10 times in X, Y and Z directions (80 minutes in each direction)
	DIN rail mounting products	10~57Hz		0.035mm	
		57~150Hz	4.9m/s²		
	Direct installation products	10~57Hz		0.075mm	
		57~150Hz	9.8m/s²		
Impact Resistance	JISC0040 standard（147m/s2，action time 11ms，sine half wave pulse in X、Y、Z three directions three times each）				
Resistance to noise	Noise voltage 1000Vp-p noise amplitude 1us rise 1ns frequency 30~100Hz noise simulation experiment				
Withstand Voltage	AC1500V(1 minutes)			Conform to JEM-1021 standard power terminal and connectionBetween ground terminals	
Insulation Impedance	DC500V insulation tester more than 5 m Ω measured				
Grounding	Third grounding (Do not share ground with high power system)				
Use environment	No corrosive, combustible gas, no large amount of conductive dust (dust)				

Model specification

Model	Power Supply	Input / Output Points			Number of communication ports	Input form	Output form	Connection form
		Total Points	Input Points	Output Points				
R3U-16M2T	DC24V	16	8	8	3	DC24V (Leakage type / source type)	Transistor (source type)	terminal
R3U-16M2R	DC24V	16	8	8	3	DC24V (Leakage type / source type)	Relay	terminal
R3U-24M2T	DC24V	24	12	12	3	DC24V (Leakage type / source type)	Transistor (source type)	Pluggable terminal
R3U-24M2R	DC24V	24	12	12	3	DC24V (Leakage type / source type)	Relay	Pluggable terminal
R3U-36M4T	DC24V	36	20	16	3	DC24V (Leakage type / source type)	Transistor (source type)	Pluggable terminal
R3U-36M4R	DC24V	36	20	16	3	DC24V (Leakage type / source type)	Relay	Pluggable terminal

Electrical specification

Item	R3U-16M2*/R3U-24M2*/R3U-36M4*
Rated voltage	DC24V
Permissible voltage range	DC24V±10%
Max.Load	Below 30W (excluding external power supply of expansion module)

1 R3U-16M2T

Model	Main Specification
	With 8 inputs and 8 output interfaces
	Can be used to control 4-axis servo/stepper motor, the highest output frequency Y0, Y1 is 200KHZ, Y2, Y3 is 10KHZ. And S-type trajectory planning function, the motor runs more smoothly.
	Input and output adopts a 7.62mm double-layer terminal. Each output has a 0.5A drive capability
	Built in two communication interfaces: in addition to the programming interface, there is a RS422 interface which can be directly connected to the touch screen and an Rs485 interface which can be used as the master-slave interface
	2-channel pulse high-speed input (multiplexed with X0-X1), up to 500KHZ, can receive external encoder input, or can be set to 2 high-speed input signal capture
	F4 series floating point, 210DMIPS 32-bit processor of DSP instruction of Swiss ST company
	With absolute positioning, relative positioning, zero return, trapezoidal and S-shaped trajectory planning.
	DC 24V Input

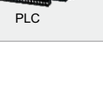
2 R3U-24M2T

Model	Main Specification
	With 12 inputs and 12 output interfaces
	8 differential pulse plus direction output, can be used to control 4-axis servo/stepper motor, the highest output frequency Y0, Y1 is 200KHZ, Y2, Y3 is 10KHZ. And S-type trajectory planning function, the motor runs more smoothly
	Input and output are detachable double-layer terminals. Each output has a 0.5A drive capability
	Built in two communication interfaces: in addition to the programming interface, there is a RS422 interface which can be directly connected to the touch screen and an Rs485 interface which can be used as the master-slave
	2-channel pulse high-speed input (multiplexed with X0-X1), up to 500KHZ, can receive external encoder input, or can be set to 2 high-speed input signal capture
	F4 series floating point, 210DMIPS 32-bit processor of DSP instruction of Swiss ST company
	With absolute positioning, relative positioning, zero return, trapezoidal and S-shaped trajectory planning
	DC 24V Input

3 R3U-36M4T

Model	Main Specification
	With 20 inputs, 16 output interfaces, and real-time clock function, MODBUS master-slave communication function
	4-way high-speed pulse output: It can be used to control 4-axis servo/stepping motor. highest output frequency Y0 Y1 are 200KHZ, Y2 and Y3 are 100KHZ. And S-type trajectory planning function, the motor runs more smoothly
	Input and output adopt detachable double-layer terminal. Each output has 0.5A driving capacity
	Built in two communication interfaces: in addition to the programming interface, there is a RS422 interface which can be directly connected to the touch screen and an Rs485 interface which can be used as the master-slave
	4-channel pulse high-speed input (multiplexed with X0-X3), up to 500KHZ, can receive external encoder input, or can be set to 2 high-speed input signal capture
	F4 series floating point, 210DMIPS 32-bit processor of DSP instruction of Swiss ST company
	With absolute positioning, relative positioning, zero return, trapezoidal and S-shaped trajectory planning
	DC 24V Input

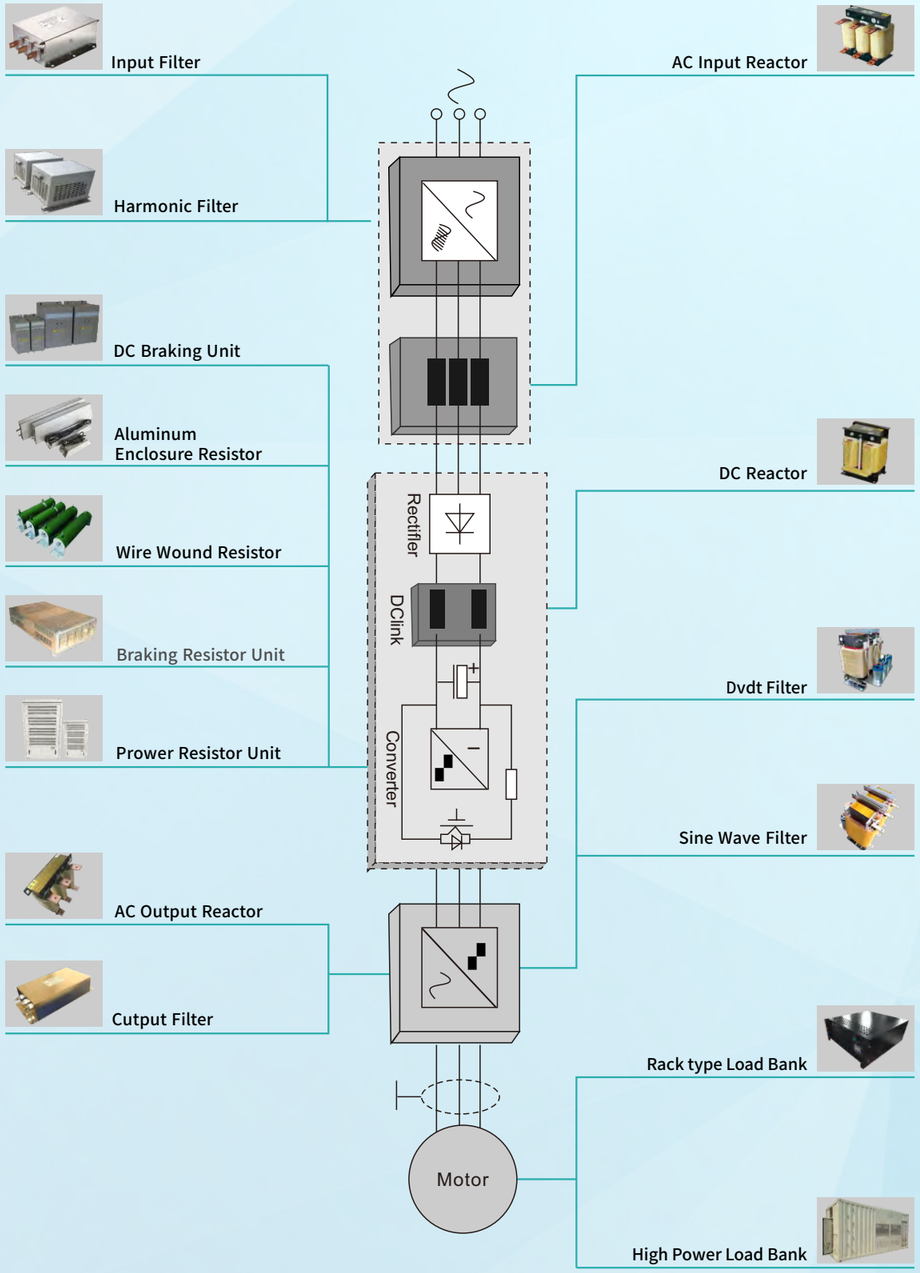
4 IO Expansion Board: E3U-32

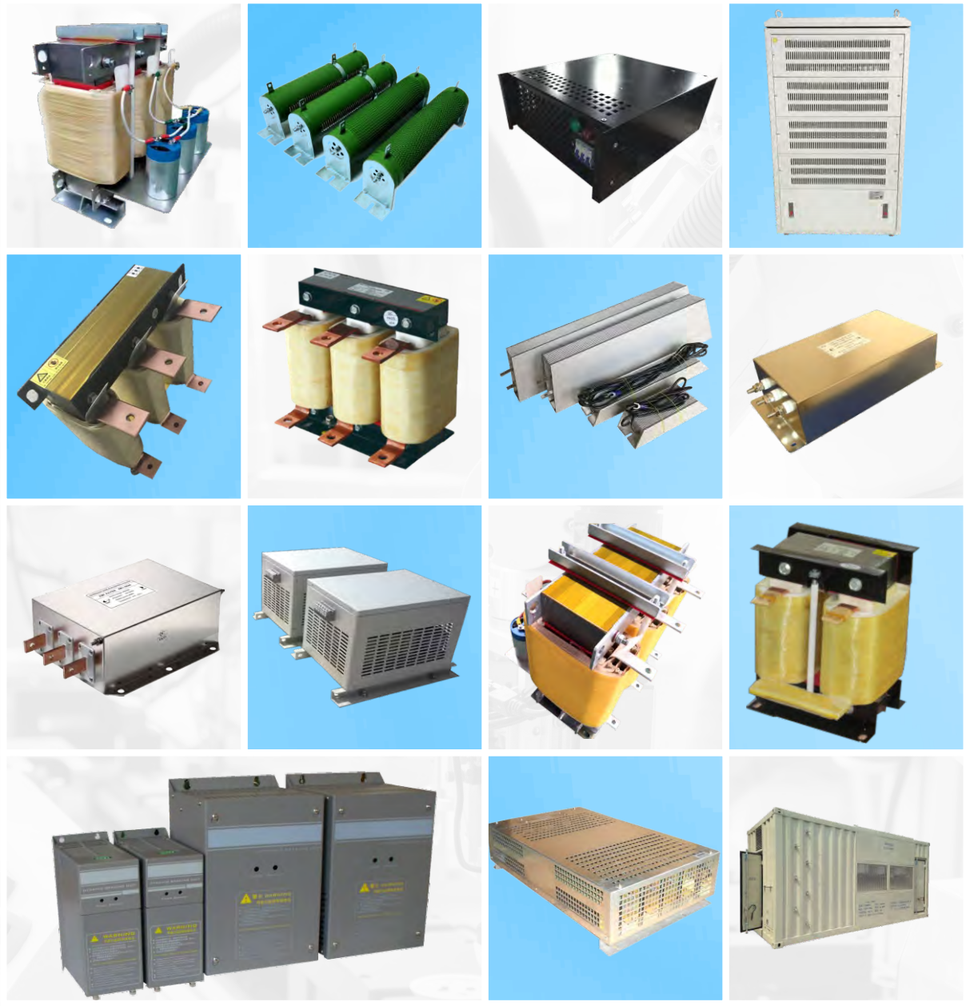
Model	Main Specification
	With 16 inputs, 16 output interfaces (transistors), the output has 0.5A high current output capability and short circuit protection.
	Input and output optocoupler isolation ; DC 24V input
	Multiple expansion boards can be cascaded, and the number is limited to 8

5 R3U Series PLC Performance Characteristics:

1 In addition to the programming port, each host of the series has built-in 422 interface and 485 interface, in which 422 interface can be directly connected with the touch screen, 483 interface can communicate with the server, frequency converter, touch screen, step motor driver, etc. for Modbus master-slave or RTU ASCII communication.
2 This series of main engines have 2-axis / 4-axis high-speed pulse and direction output ports. Among them, Y0, Y1 high-speed pulse output can be as high as 200kHz, Y2, Y3 high-speed pulse output can be as high as 100kHz, each host can be equipped with 4 servers or stepping motors.
3 The frequency of high-speed pulse input port with hardware counting can be as high as 500KHz
4 When using ddrva and ddrvi command, Y0 ~ Y4 pulse port automatically uses S-curve acceleration and deceleration, which can effectively slow down mechanical vibration and improve machining efficiency.

POWER ELECTRONICS





- Input Filter
- Harmonic Filter
- DC Braking Unit
- Braking resistor
- Aluminum Enclosure Resistor
- Wire Wound Resistor
- Braking Resistor Unit
- Prower Resistor Unit
- AC Output Reactor
- Cutput Filter
- AC Input Reactor
- DC Reactor
- Dvdt Filter
- Sine Wave Filter
- Rack type Load Bank
- High Power Load Bank

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