

# K-DRIVE

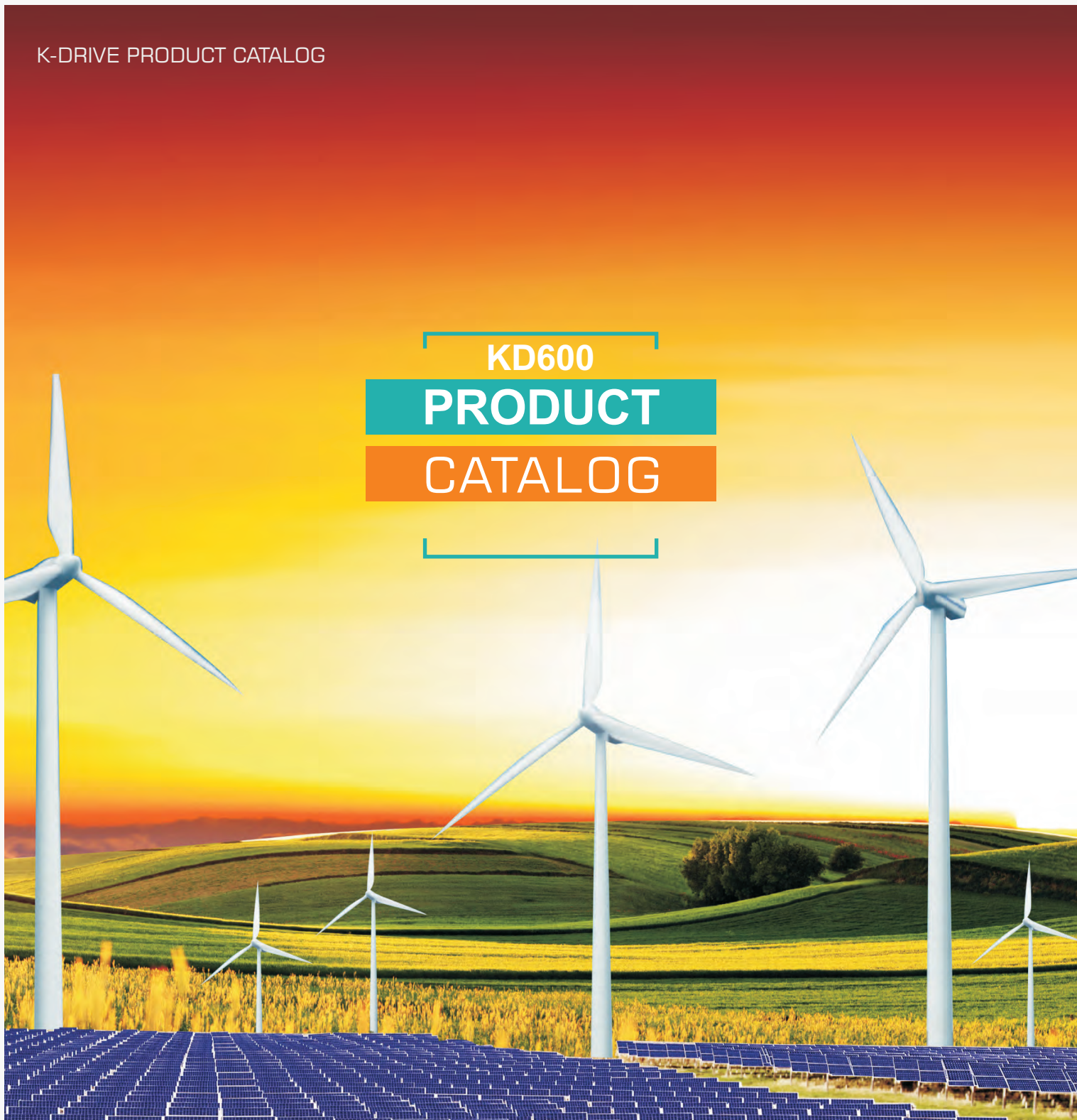
*Energy efficient, Beautiful environment*

K-DRIVE PRODUCT CATALOG

KD600

**PRODUCT**

**CATALOG**



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 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

 <p><b>BUSINESS TYPE</b> Manufacturer, Exporter</p>	 <p><b>BRANDS</b> K-DRIVE</p>	 <p><b>NO. OF EMPLOYEES</b> 300-600</p>
 <p><b>ANNUAL SALES</b> 45000000-50000000</p>	 <p><b>YEAR ESTABLISHED</b> 2010</p>	 <p><b>EXPORT P.C.</b> 95%-100%</p>





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**K-DRIVE AC DRIVES**

For energy saving, efficiency improvement, and system higher intellectualization.



# 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 consumption 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 addition 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.

## 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 cheapest 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

Ambient temperature 45° C without derating  
Thickened conformal coating  
Optimized cooling system

#### User-friendly

Parameter copy  
Detachable control panel  
One platform numerous versions

#### Intelligent

Warning systems  
Multiple frequency references  
All-sided protection  
Online autotuning  
PC-based monitoring software  
Extensible features/parameter blocks

#### Benefit

Less need for cooling or oversizing  
Resistant to harsh surroundings  
Lower temperature rise

Save time for Commissioning  
Easy for remote control  
Save stocks

Warning before stop  
Powerful in intelligent applications  
Long lifetime & less maintenance 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

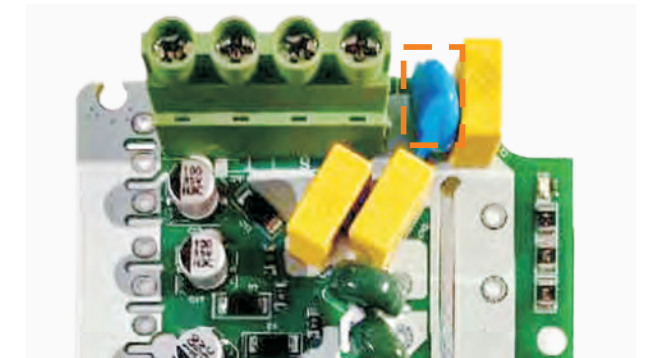
KD600M adopt book-type frames to save mounting space. Close parallel mounting is permitted without requirement of derating.



02

### EMC grounding design

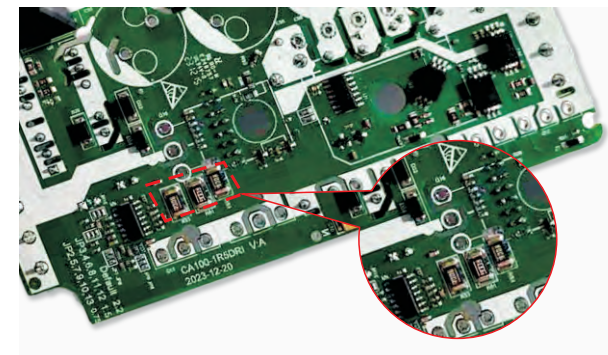
Independent grounding system selection switch (through the screw access or not to choose), easy to solve the problem of EMC interference and leakage current.



03

### Three resistance current sampling and reconstruction technology

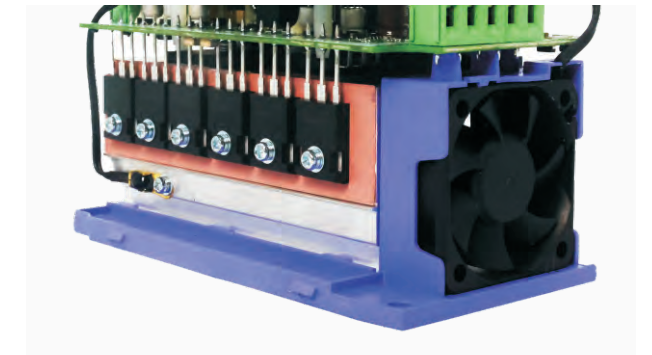
Whole back facet covered, and fin-corrugated heat sink has the optimized contribution to heat dissipation. Minimized temperature rise brings about reliable operation and pledges the lifespan of drive components.



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.

06

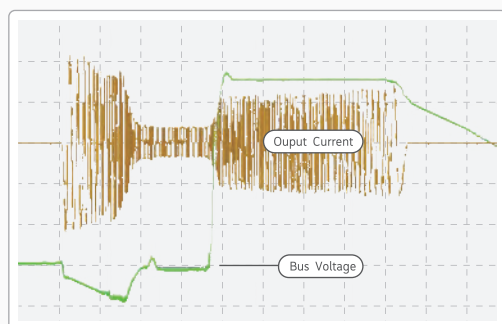
Strong adaptability to temperature

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

07

Multi-step speed

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



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.

180%

50°C

16

SPECIFICATIONS

Input & Output

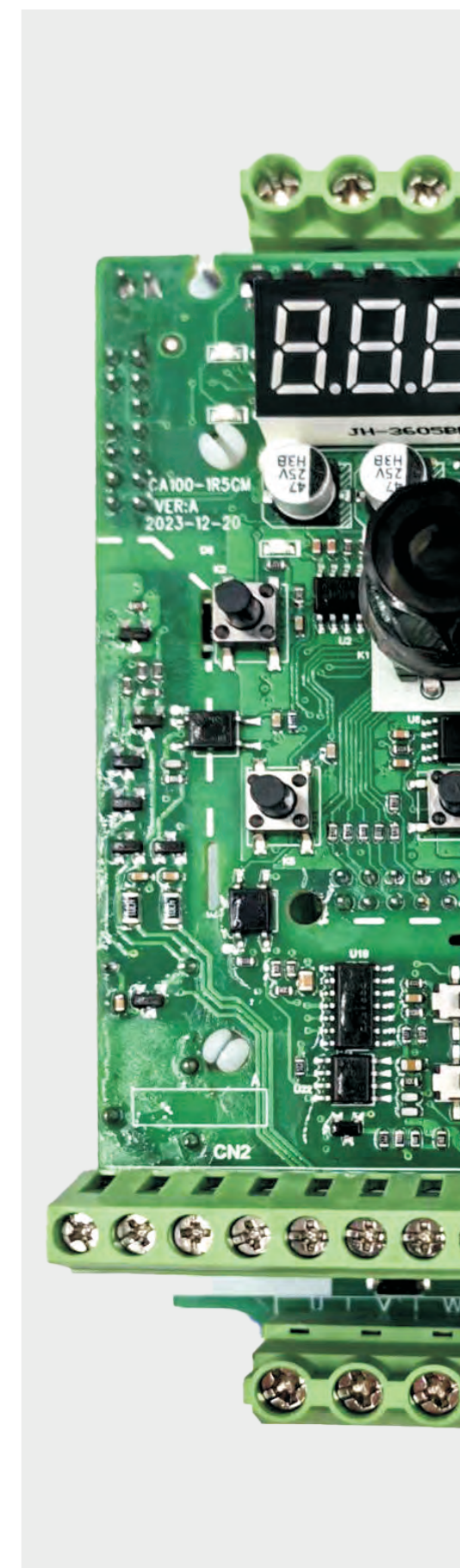
Input voltage	1AC 220~240V(± 15%)
	3AC 220~240V(± 15%)
	3AC 380~460V(± 15%)
Input frequency	50Hz/60Hz ±5%
Output voltage	0~input voltage, deviation <±3%
Output frequency	0~600Hz

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 accelerator/deceleration Multi-functional programmable keypad V/F separated control



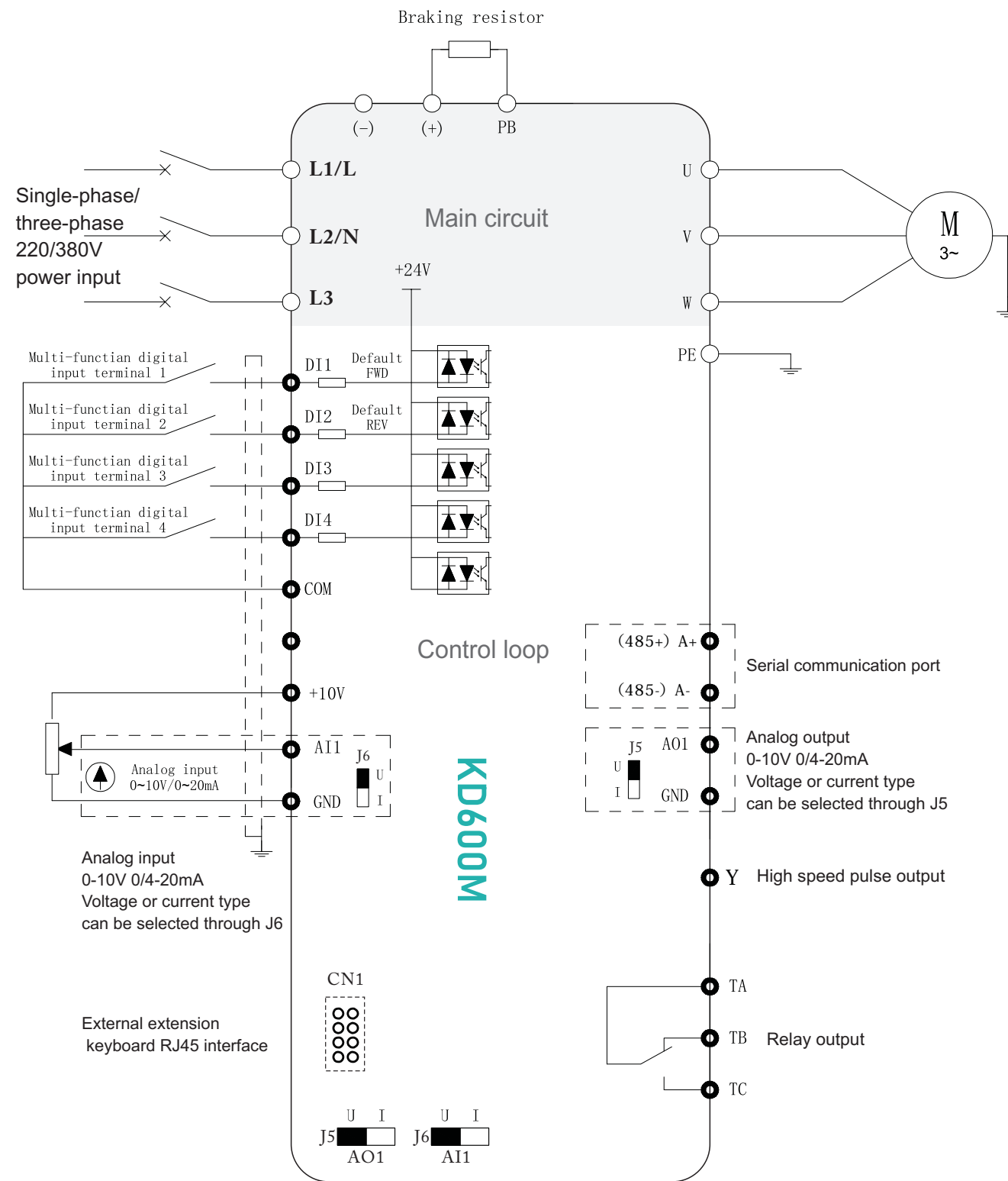


**Environment Limitation**

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**

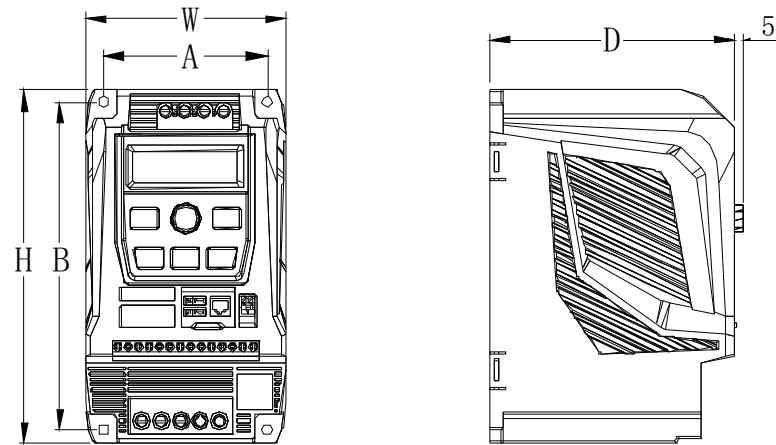
Following is the default wiring diagram for KD600M. Please consult K-DRIVE if customized solution is required.



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 <td 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





# KD600 High Performance AC Drive



The KD600 series are the drives that cover an entire range of applications, particular in demanding ones that require precise speed control, torque control, tension control, fast response, etc.

### POWER RATINGS

1×220 - 240V	0.4 - 75kW
3×220 - 240V	0.4 - 75kW
3×380 - 480V	1.5 - 400kW

### COMPATIBILITY

Asynch motor control applicable

### CONTROL TECHNOLOGY

V/Hz control  
SVC1 SVC2 VC

### FEATURES

#### Reliable

Ambient temperature 45° C without derating  
Thickened conformal coating  
Optimized cooling system

#### User-friendly

Parameter copy  
Detachable control panel  
One platform numerous versions

#### Intelligent

Warning systems  
Multiple frequency references  
All-sided protection  
Online autotuning  
PC-based monitoring software  
Extensible features/parameter blocks

#### Benefit

Less need for cooling or oversizing  
Resistant to harsh surroundings  
Lower temperature rise

Save time for Commissioning  
Easy for remote control  
Save stocks

Warning before stop  
Powerful in intelligent applications  
Long lifetime & less maintaince cost  
Intelligent response to delicate variation  
Easy to operate  
Make the drives "just for you"

### APPLICATIONS

Hoists & Cranes, Elevators & Escalators, Machine tool, Drawbench, etc.



## More Beyond Inheritance



01

Faster, stronger, more precise

Inheriting all the merits of KD600S drives, KD600 drives are extended more on performance, I/O interfaces and functionalities. Users could choose KD600 drives in demanding applications for bigger output torque, more precise speed and faster response.

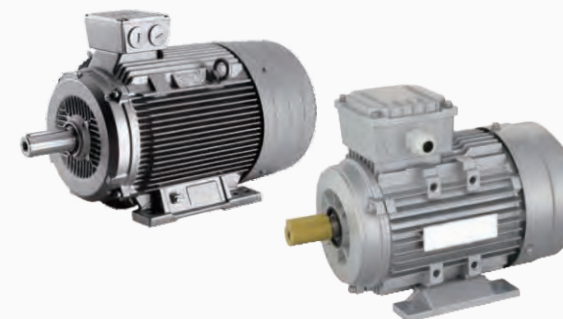
NOTE: Only 0.4kW-400kW are listed here. Please contact K-DRIVE for more information of other power ratings.

Latest dedicated chip



02

One for all



KD600 drives can well control asynchronous motors and permanent magnet synchronous motors. A KD600 drive can be set to control two motors, switched by a programmable terminal or a parameter.

### 03 Hot pluggable and detachable control panel

Quite convenient for users to implement remote control via a cable connection, and the settings are easily transferred via the control panel to another drive or from a PC to a drive with K-DRIVE Drive Monitoring Software

### 04 Abundant hot-plugged options

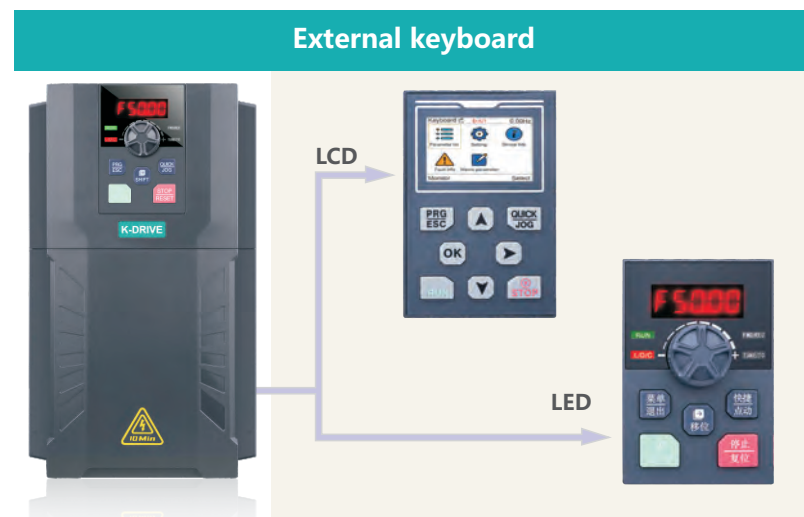
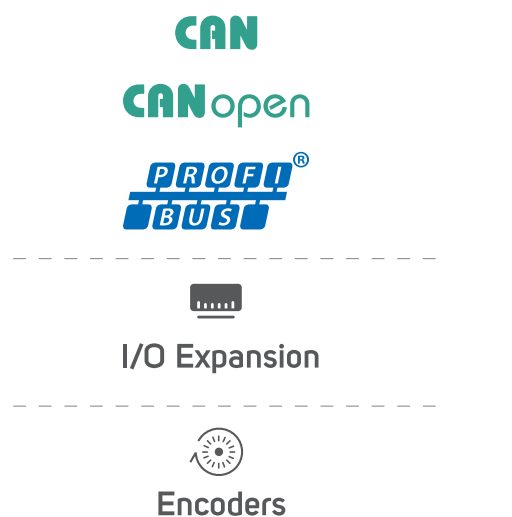
One platform millions of version is the basic design concept of KD600. Numerous options are available and can be mounted and tested at factory or be hot-plugged in later for change-over or upgrade.

#### Fieldbus options

- KD600-CAN CAN communication expansion card
- KD600-PN ProFinet communication card
- KD600-DP Profbus-DP communication card

#### I/O options

- KD600-IO1 I/O expansion card 1
- KD600-IO2 I/O expansion card 2
- KD600-ISO485 RS-485 communication card
- KD600-Ethercat Ethercat communication card
- KD600-PG1 Open collector ABZ encoder
- KD600-PG3 Differential input ABZ encoder card
- KD600-PG6 Resolver Interface Card
- KD600-LCD LCD screen
- KD600-4P One Card For 4 Pumps



#### Cooperation brand

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

### 05 Four control modes

KD600 drives are equipped with four kinds of control modes, V/Hz, SVC1, SVC2, VC, fulfilling a wide variety of demanding industrial applications.

Control mode	V/Hz	SVC1	SVC2	VC
Speed adjustable range	1:100	1:100	<b>1:200</b>	<b>1:1000</b>
Speed accuracy	±0.5%	±0.2%	±0.2%	±0.02%
Speed ripple	/	±0.3%	±0.3%	±0.1%

### 06 Supreme start torque

The drives of KD600 series can output 200% of the rated output torque at 0Hz under VC control mode.



### 07 Torque control programmable

Speed control and torque control are programmable via parameter or can be switched via terminal digital input at KD600. Torque control accuracy reaches ±5%, while response time is less than 5ms.



### 08 Four kinds of position control

Under VC control mode, a KD600 drive can undertake the task of zero-speed clamping, angular positioning\*1, fixed-length control\*2, and positioning via pulse input. The precision of positioning at pulse input reaches ±1 pulse.

NOTE: \*1:4angular positions realizable; \*2: 8 fixed-length positions programmable.



### 09 Flexible electronic gear

Through the function of electronic gear at KD600, closed-loop vector control still can be performed even the encoder is not mounted at the motor shaft, quite convenient for applications when the encoder is not easily to be mounted at the motor shaft.

NOTE: \*3: The shaft that the encoder is mounted at should have fixed speed ratio with motor shaft.



## 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 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 accelerator/deceleration Multi-functional programmable keypad V/F separated control
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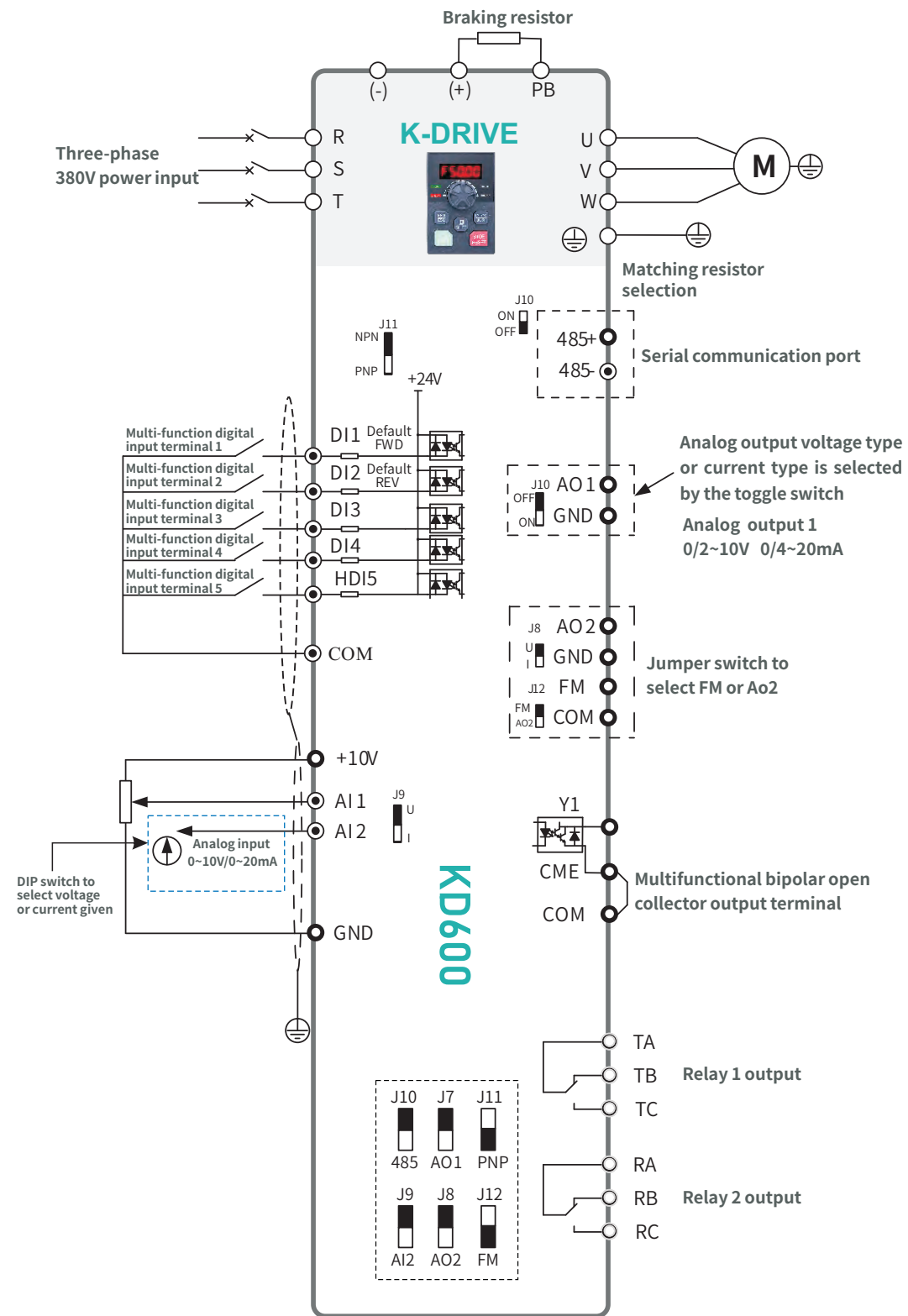


### Environment Limitation

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

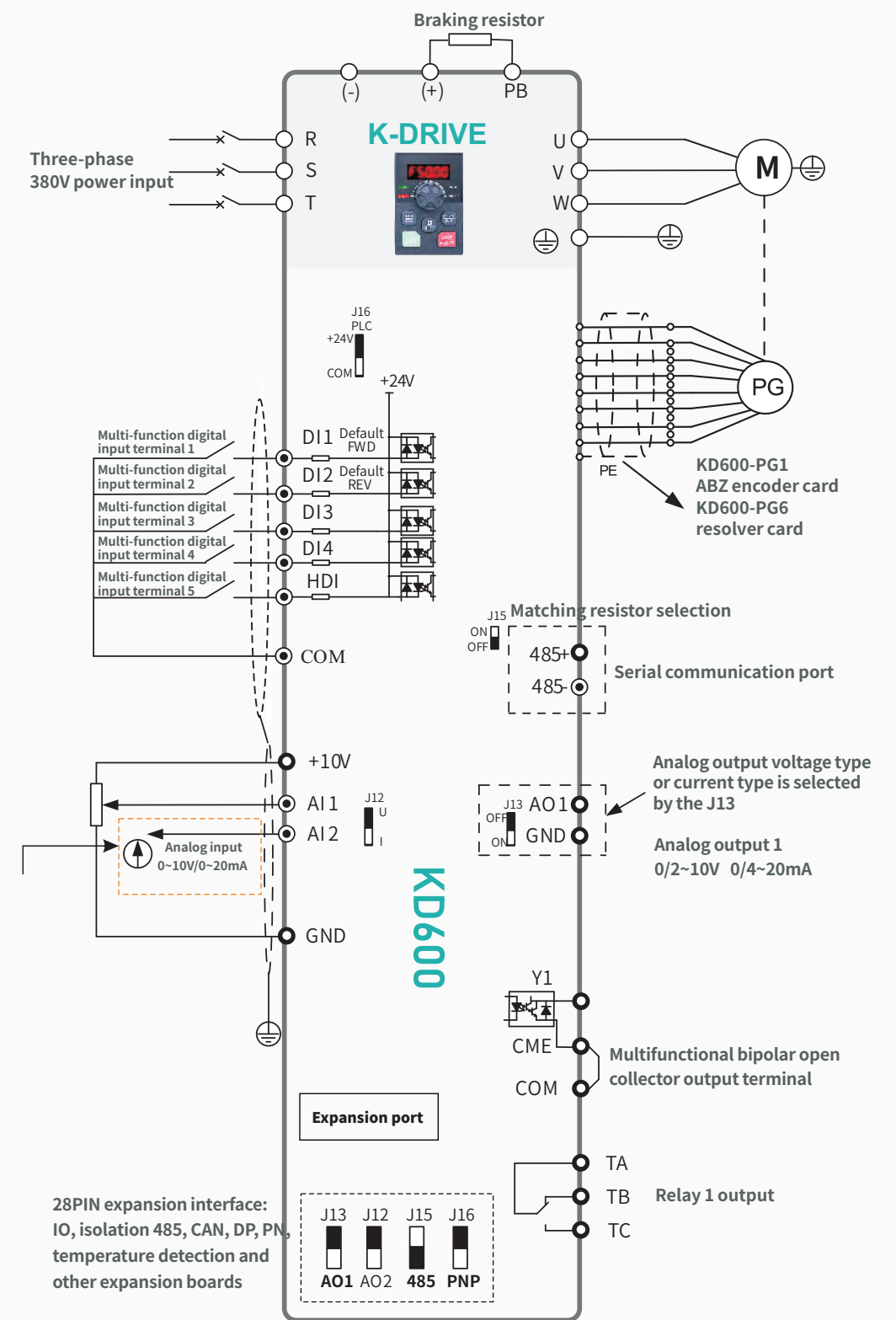
## BASIC CONNECTION

Three-phase inverter below 2.2kW.



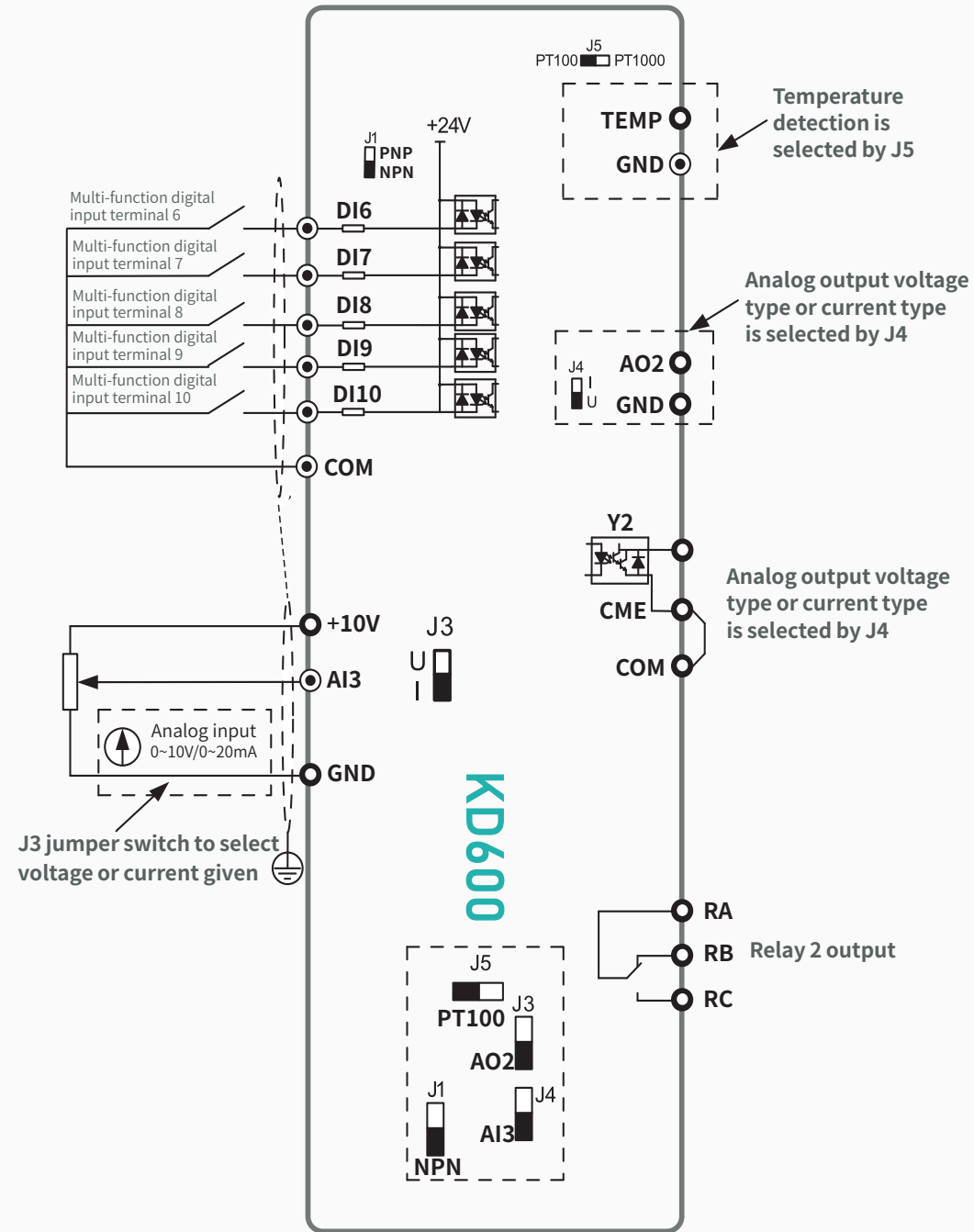
## BASIC CONNECTION

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



## MODEL AND SIZE

KD600-IO1 expansion card



## MODEL AND SIZE

# 2S

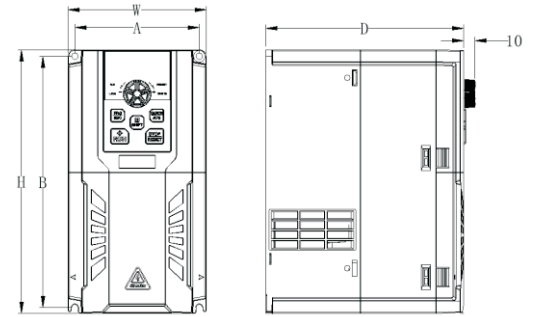
AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture d	Frame NO.
				A	B	H	W	D		
				Input voltage: single-phase 220V Range : -15%~20%						
KD600-2S-0.4G	0.4	5.4	2.3	76	156	165	86	140	5	A
KD600-2S-0.7G	0.75	8.2	4.0							
KD600-2S-1.5G	1.5	14.0	7.0							

# 4T

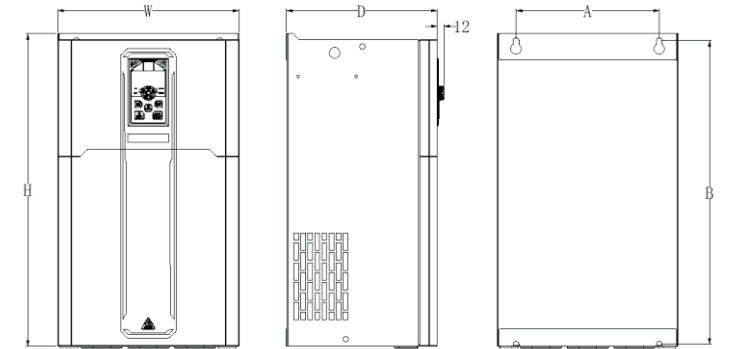
AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture d	Frame NO.
				A	B	H	W	D		
				Input voltage: three-phase 380V Range: -15%~20%						
KD600-4T-0.7G/1.5P	0.7	3.4	2.1	76	156	165	86	140	5	A
KD600-4T-1.5G/2.2P	1.5	5.0	3.8							
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	A
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	A
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	A
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	A
KD600-4T-22G/30P	22	46.5	45.0							
KD600-4T-30G/37P	30	62.0	60.0	200	410	425	255	206	7	B
KD600-4T-37G/45P	37	76	75							

# 4T

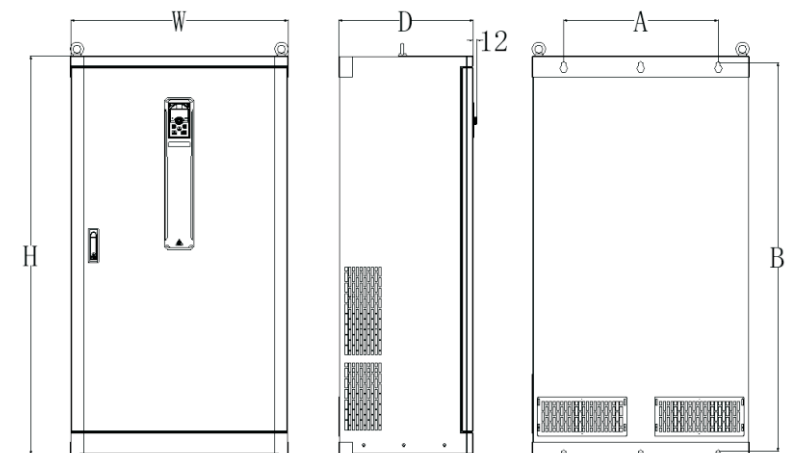
AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture d	Frame NO.
				A	B	H	W	D		
KD600-4T-45G/55P	45	92	91	245	518	534	310	258	10	B
KD600-4T-55G/75P	55	113	110							
KD600-4T-75G/90P	75	157	152	290	544	560	350	268	10	B
KD600-4T-90G/110P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



A



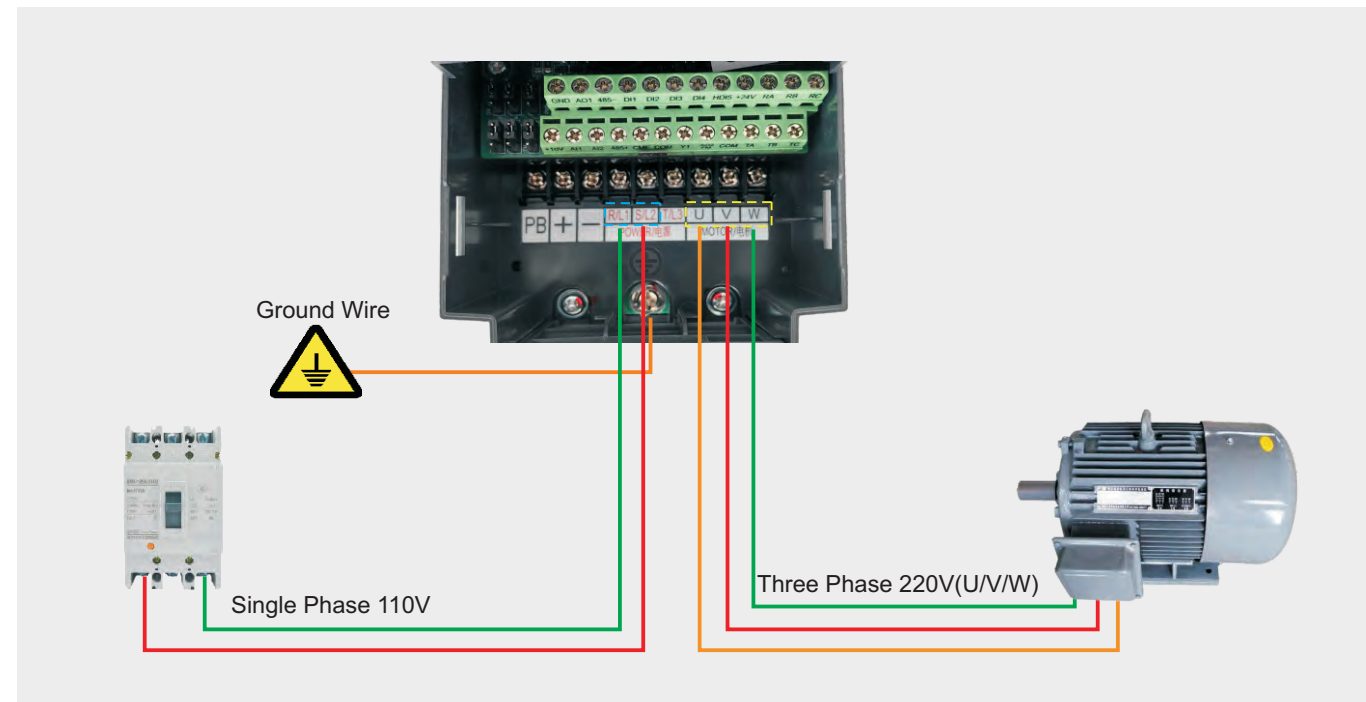
B



C

## KD600-1S/2T Series

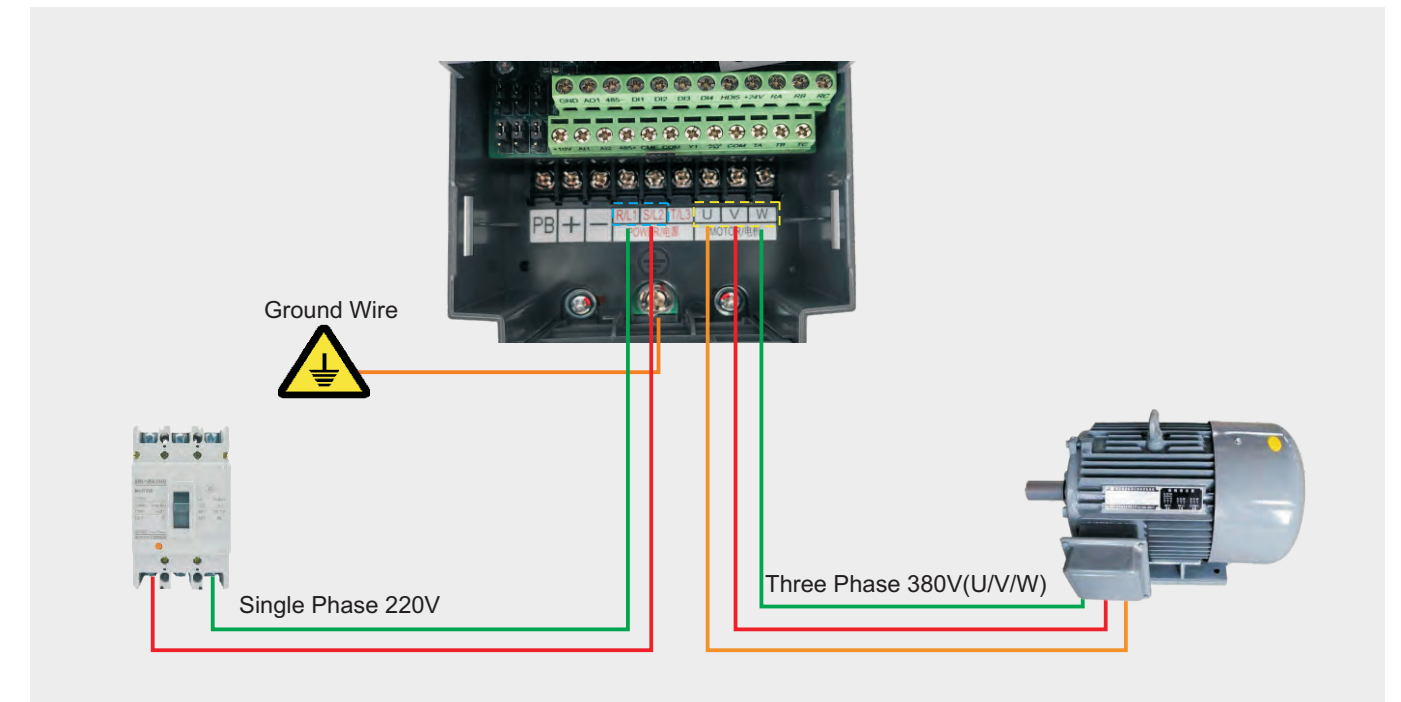
KD600-1S/2T Series is for some solutions which need 110V, single phase input, but need 220V three phase output for AC Motors, General ways to solve out this problem is to add a transformer behind 110V VFD, and then connect to mo-tor, but this is very trouble, and costing is very high, and now our KD600-1S/2T 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( $\mu$ 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

## 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( $\mu$ 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

K-DRIVE  
AC DRIVE

ELEVATOR  
THE POWER



**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**

3x 380 - 480V

3.7 - 30kW

**CONTROL TECHNOLOGY**

V/Hz SVC1 SVC2

**FEATURES**

**01**

Safety and reliability

Safety 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 safety 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 safety requirement at the drive side.

**UPS**  
applicable

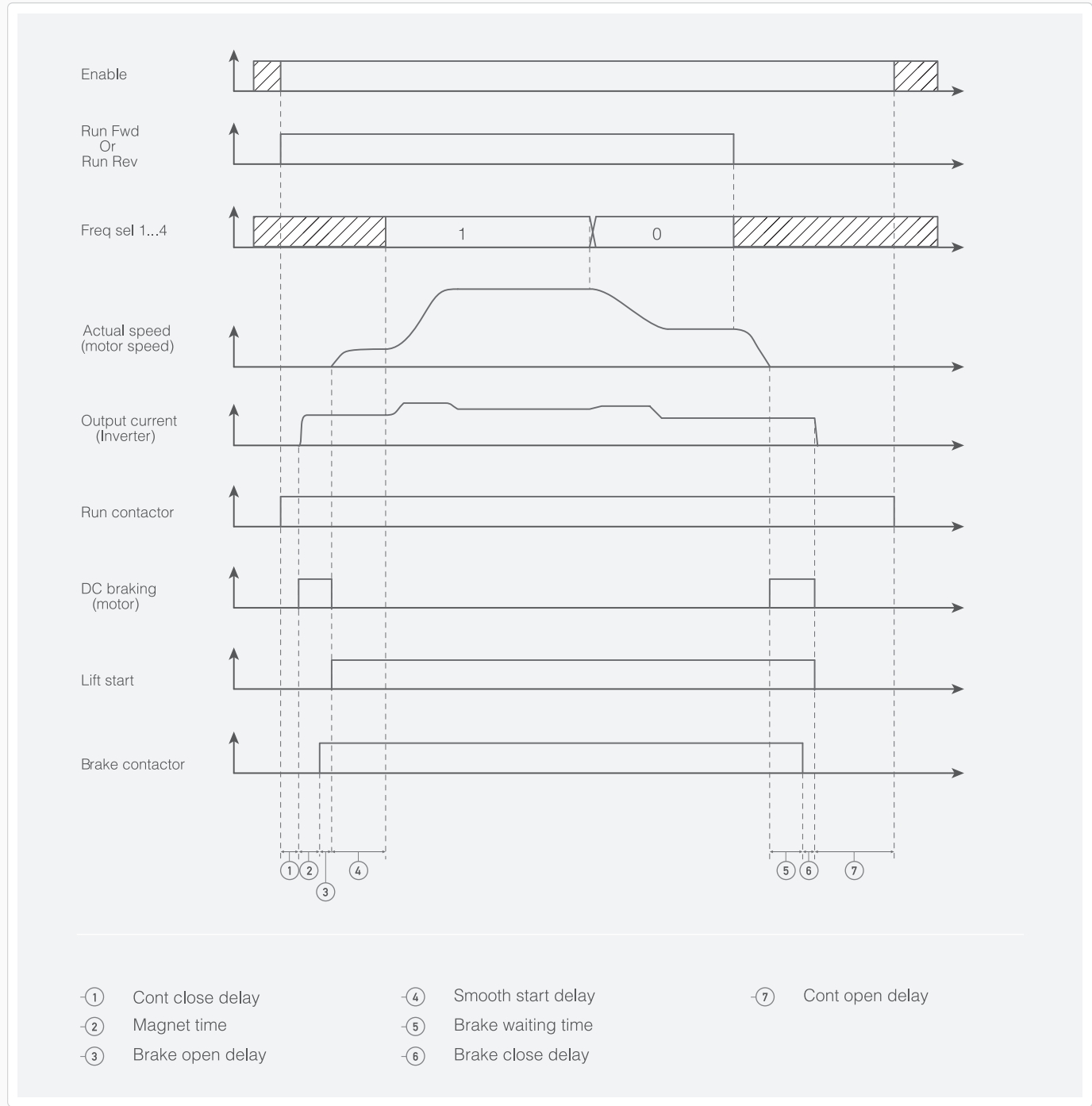
**02**

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.







### 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

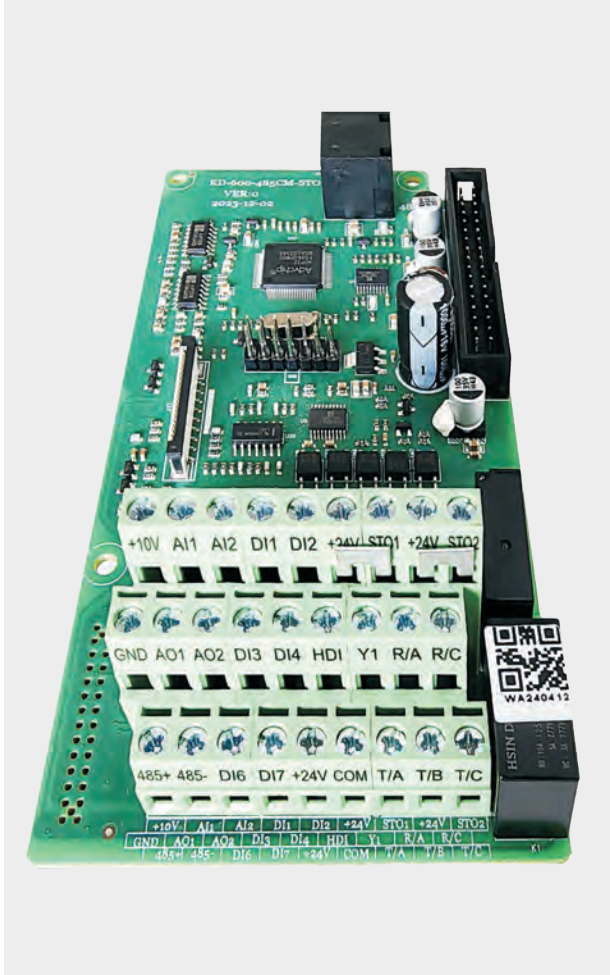
Smoothness at the start and stop is quite important and the main reason for the users to select the drive or not. KD600E have a lot of approaches to program the smoothness at the start and stop, like smooth start frequency, DC injection brake, torque boost, V/Hz mode, brake sequency, and so forth.

### 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.

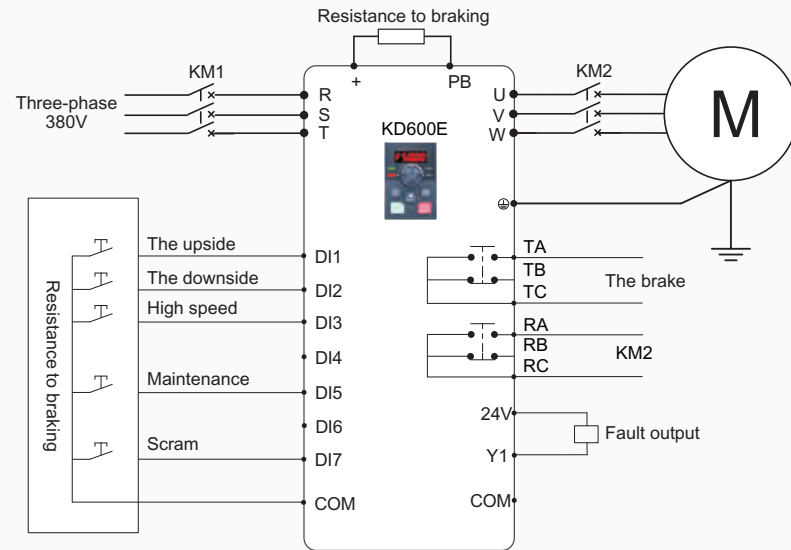


## BASIC CONNECTION

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

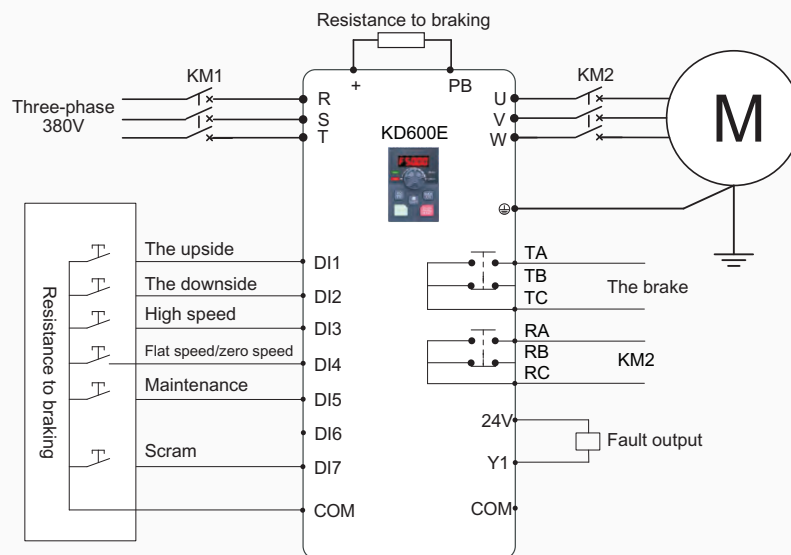
### SINGLE MULTI-SPEED TERMINAL ELEVATOR CONTROLLER

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:



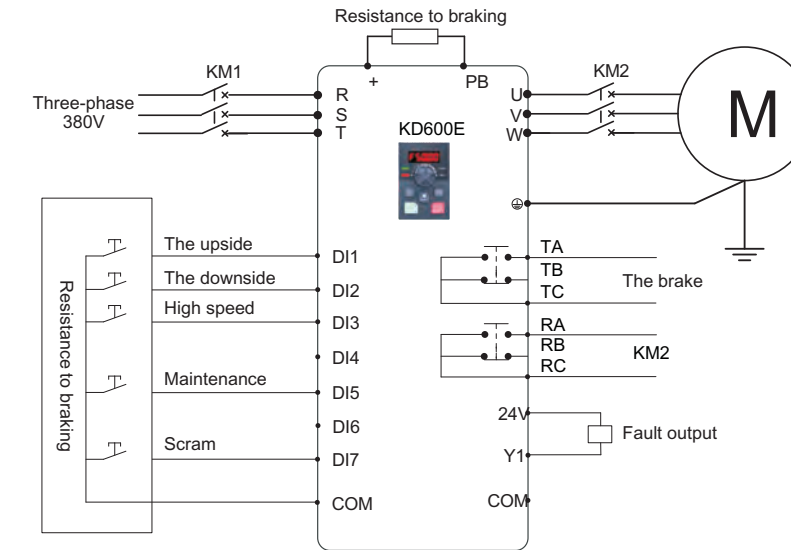
### DOUBLE MULTI-SPEED TERMINAL ELEVATOR CONTROLLER

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



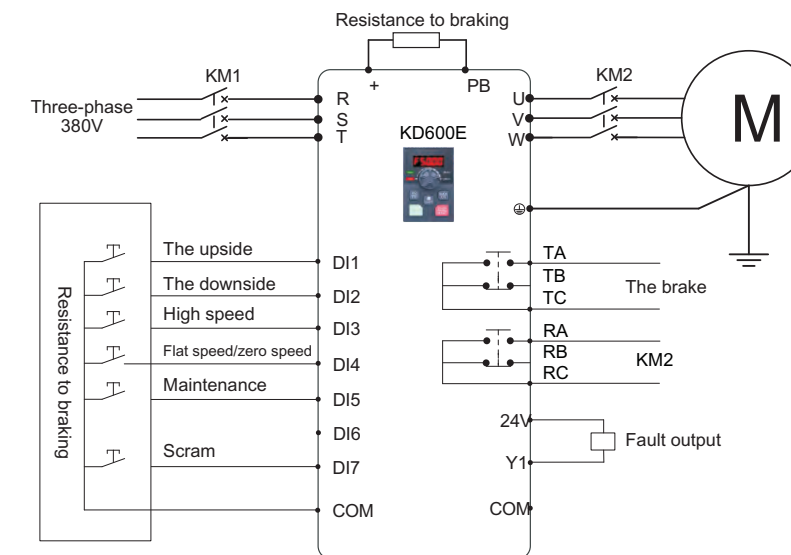
### EMERGENCY OPERATION MODE

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 operation, 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 elevator 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 d	Frame NO.
				A	B	H	W	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	
KD600E-2S-0.7G	0.75	8.2	4.0							
KD600E-2S-1.5G	1.5	14.0	7.0							

# 4T

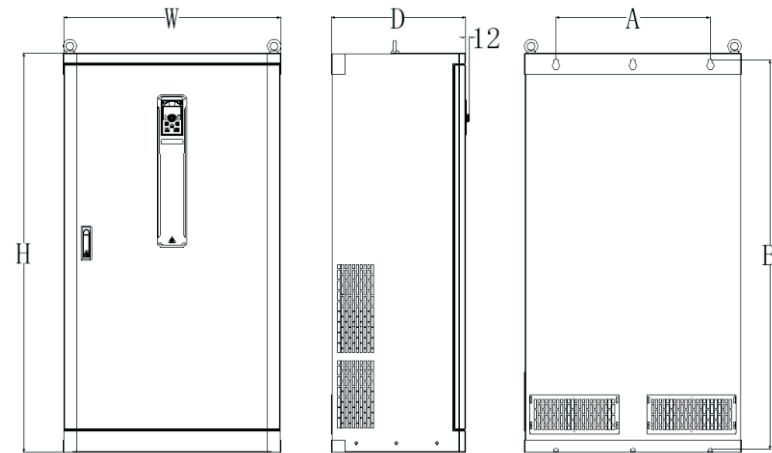
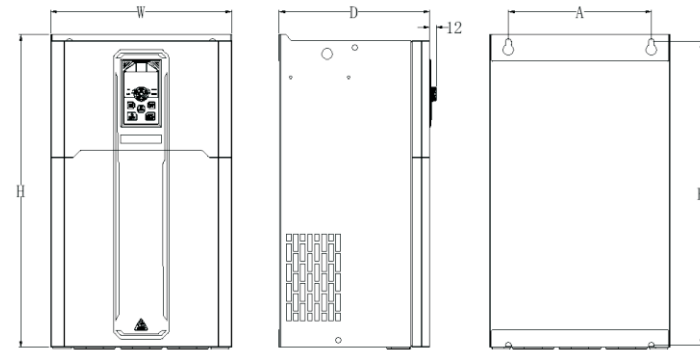
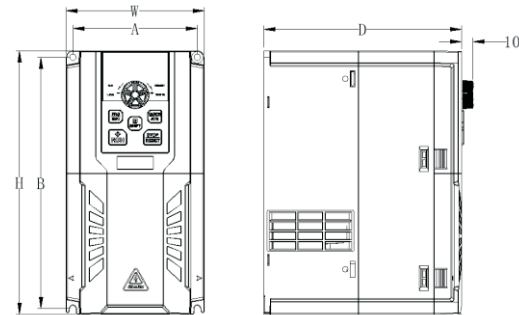
AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture d	Frame NO.
				A	B	H	W	D		
Input voltage: three-phase 380V				Range: -15%~20%						
KD600E-4T-0.7G/1.5P	0.7	3.4	2.1	76	156	165	86	140	5	
KD600E-4T-1.5G/2.2P	1.5	5.0	3.8							
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	
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	
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	
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	
KD600E-4T-22G/30P	22	46.5	45.0							
KD600E-4T-30G/37P	30	62.0	60.0	200	410	425	255	206	7	
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 d	Frame NO.
				A	B	H	W	D		
KD600E-4T-45G/55P	45	92	91	245	518	534	310	258	10	
KD600E-4T-55G/75P	55	113	110							
KD600E-4T-75G/90P	75	157	152	290	544	560	350	268	10	
KD600E-4T-90G/110P	90	180	176							
KD600E-4T-110G/132P	110	214	210	320	678	695	410	295	10	
KD600E-4T-132G/160P	132	256	253							
KD600E-4T-160G/185P	160	307	304	380	1025	1050	480	330	10	
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	
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	
KD600E-4T-350G/400P	350	665	650							
KD600E-4T-400G/450P	400	785	725							
KD600E-4T450G/500P	450	883	820	/	/	1800	1000	500	/	
KD600E-4T500G/550P	500	920	900							
KD600E-4T550G/630P	550	1020	1000							
KD600E-4T630G/710P	630	1120	1100	/	/	2200	1200	600	/	
KD600E-4T710G/800P	710	1315	1250							
KD600E-4T800G/900P	800	1525	1450							

K-DRIVE  
AC DRIVE

# KD600/IP65 High protection AC Drive



KD600/IP65 series is a high protection performance products, based on the KD600 platform development, efficient, intelligent, easy to use, economy, quality, service as a whole. Realize synchronous, asynchronous motor integration drive, integration of various control, communication, 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

A

B

C

## 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

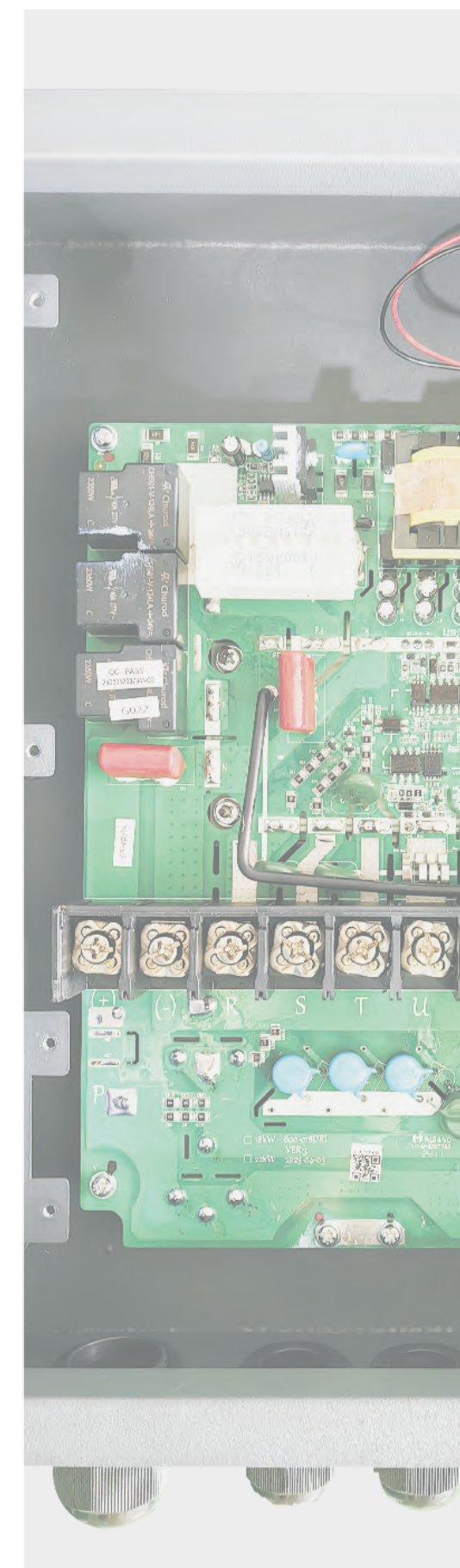
Input voltage	3AC 380~460V(± 15%)
Input frequency	50Hz/60Hz ± 5%
Output voltage	0~input voltage, deviation <±3%
Output frequency	0~600Hz

### Control Characteristics

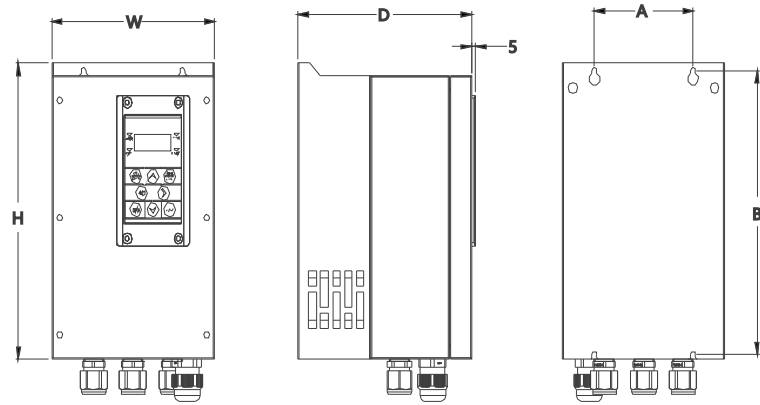
Control mode	V/F control Sensor-less vector control Torque control
Speed accuracy	±0,5% (V/F) ±0,2% (SVC)
Speed fluctuation	±0,3% (SVC)
torque response	< 10ms (SVC)
Starting torque	0,5Hz: 150% (V/F) 0,25Hz: 180% (SVC)
Overload capability	150% Rated current -60s 180% Rated current -10s 200% Rated current -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 accelerator/deceleration Multi-functional programmable keypad V/F separated control
--------------------	--



## MODEL AND SIZE



Product model	Mounting dimension (mm)		Overall dimension (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 feedback 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 braking 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

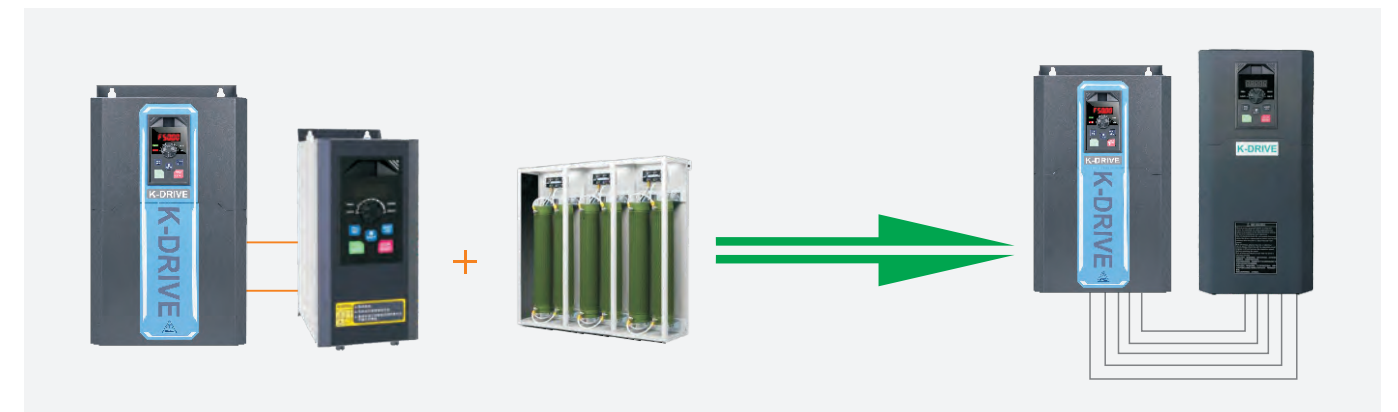
3 phase input  
3 phase output

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%**

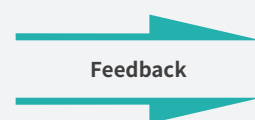


## 03 Low Pollution

Low harmonic pollution, THD < 5%.



50Hz low-frequency harmonics



Power grid

## 04 Built in MODBUS

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



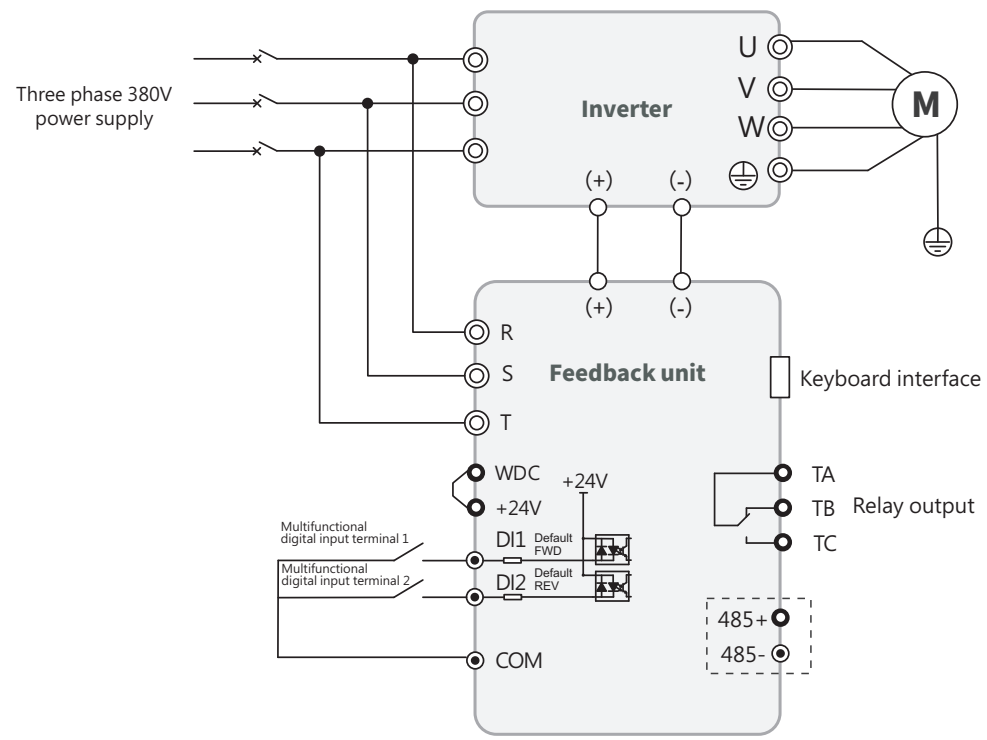
## TECHNICAL SPECIFICATIONS

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
Display	Overheat protection	90 °C
	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 °C, well ventilated
	Environmental humidity	Below 90% RH (without condensation)
	Vibration degree	Below 0.5g

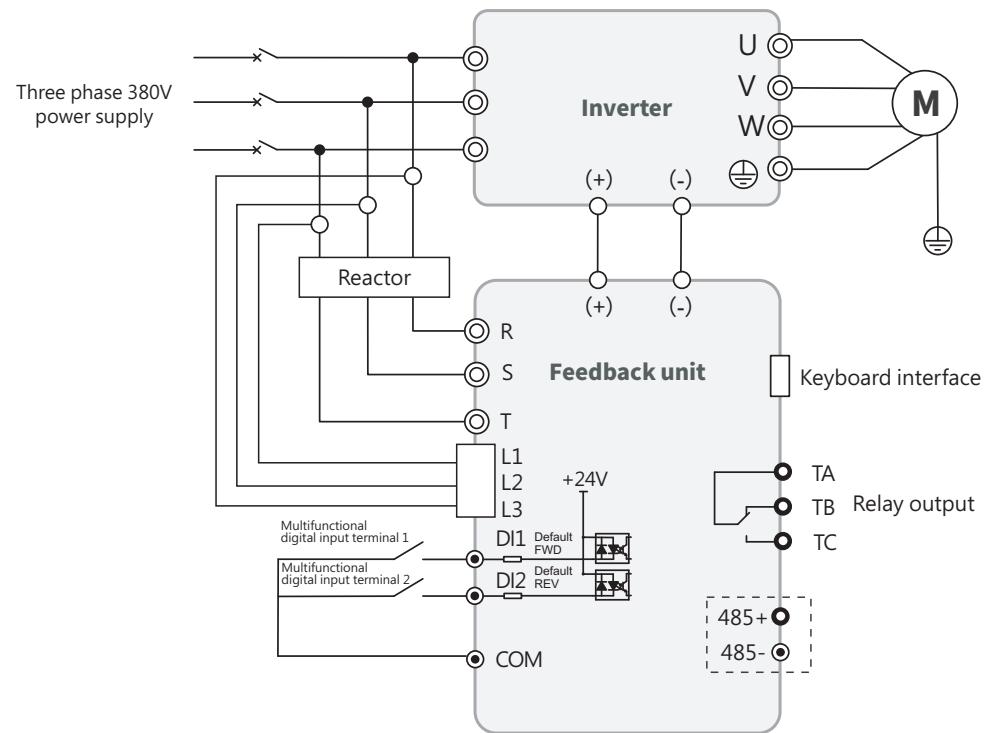
## PRODUCT SELECTION

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

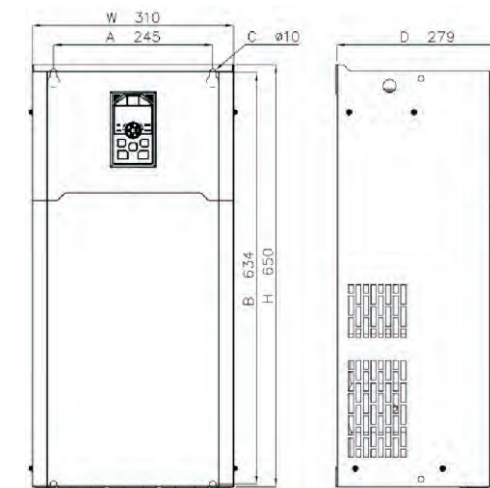
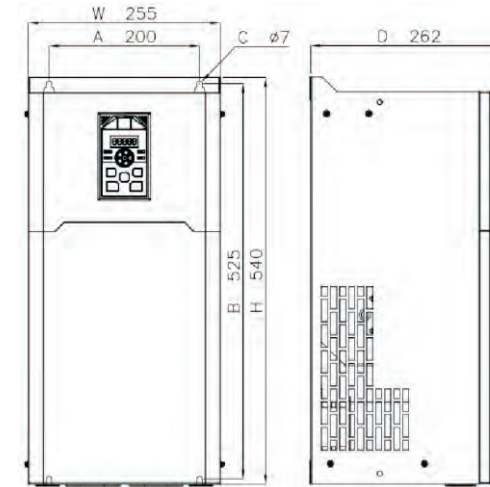
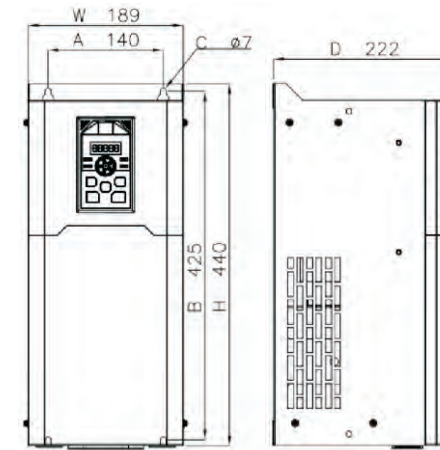


11~110KW Feedback Unit Wiring Diagram



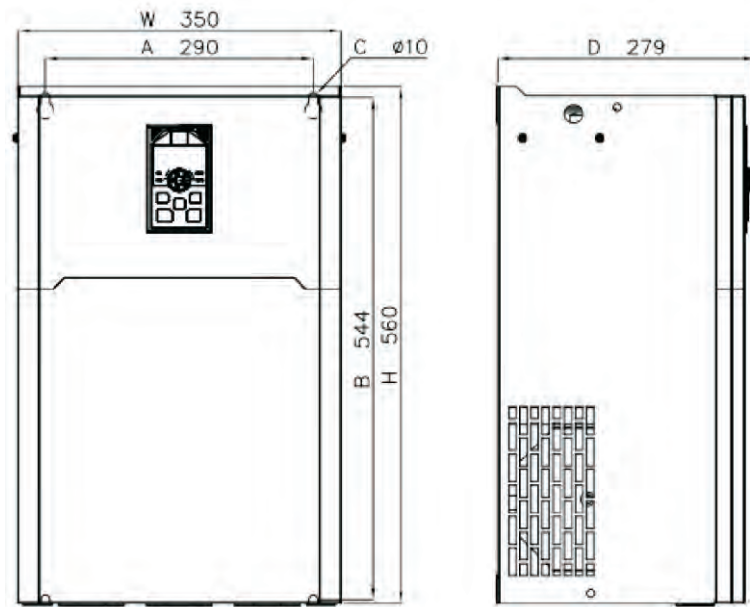
132~315KW Feedback Unit Wiring Diagram

## MODEL AND SIZE

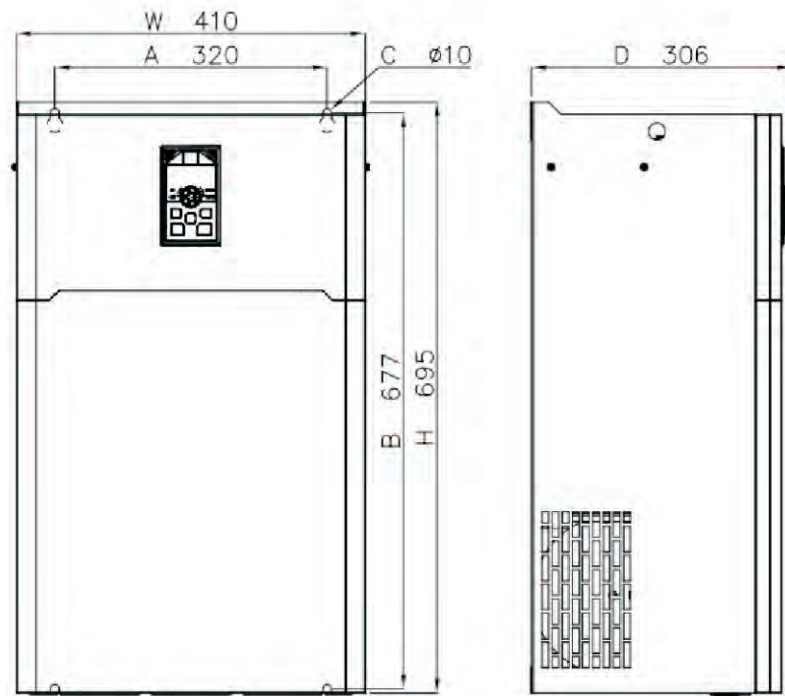




## MODEL AND SIZE



D



E

# 4T

AC Drive Model	Installation size (mm)		Dimensions (mm)			Aperture d	Reactor	Frame NO.
	A	B	H	W	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								

# CL200 four-quadrant inverter



CL200 series four-quadrant inverter adopts 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 other hand, the energy generated by the motor can be returned to the power grid to achieve a thorough energy-saving effect. Products support three-phase asynchronous motor and permanent magnet synchronous motor control, strong performance, 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 conversion 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 redundancy.

#### New generation device platform with large design margin

Adopting a new generation of IGBT and rectifier bridge hardware platform, higher configuration, and large design 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 processes according to the model and specifications of the single board, ensuring the uniformity of the product's three proof process and batch consistency.

### 03 Excellent performance

- ✦ Stable speed accuracy:  $\pm 0.5\%$  (SVC),  $\pm 0.02\%$  (FVC);
- ✦ Speed regulation range: 1:200 (SVC), 1:1000 (FVC);
- ✦ Torque response:  $< 40\text{ms}$  (SVC),  $< 10\text{ms}$  (FVC);
- ✦ In closed-loop vector mode, the torque linearity deviation 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, differential 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 motor parameters for long-distance power cables under load conditions; Can automatically distinguish the direction of encoder signals under encoder conditions, simplifying the debugging process.

## SPECIFICATIONS

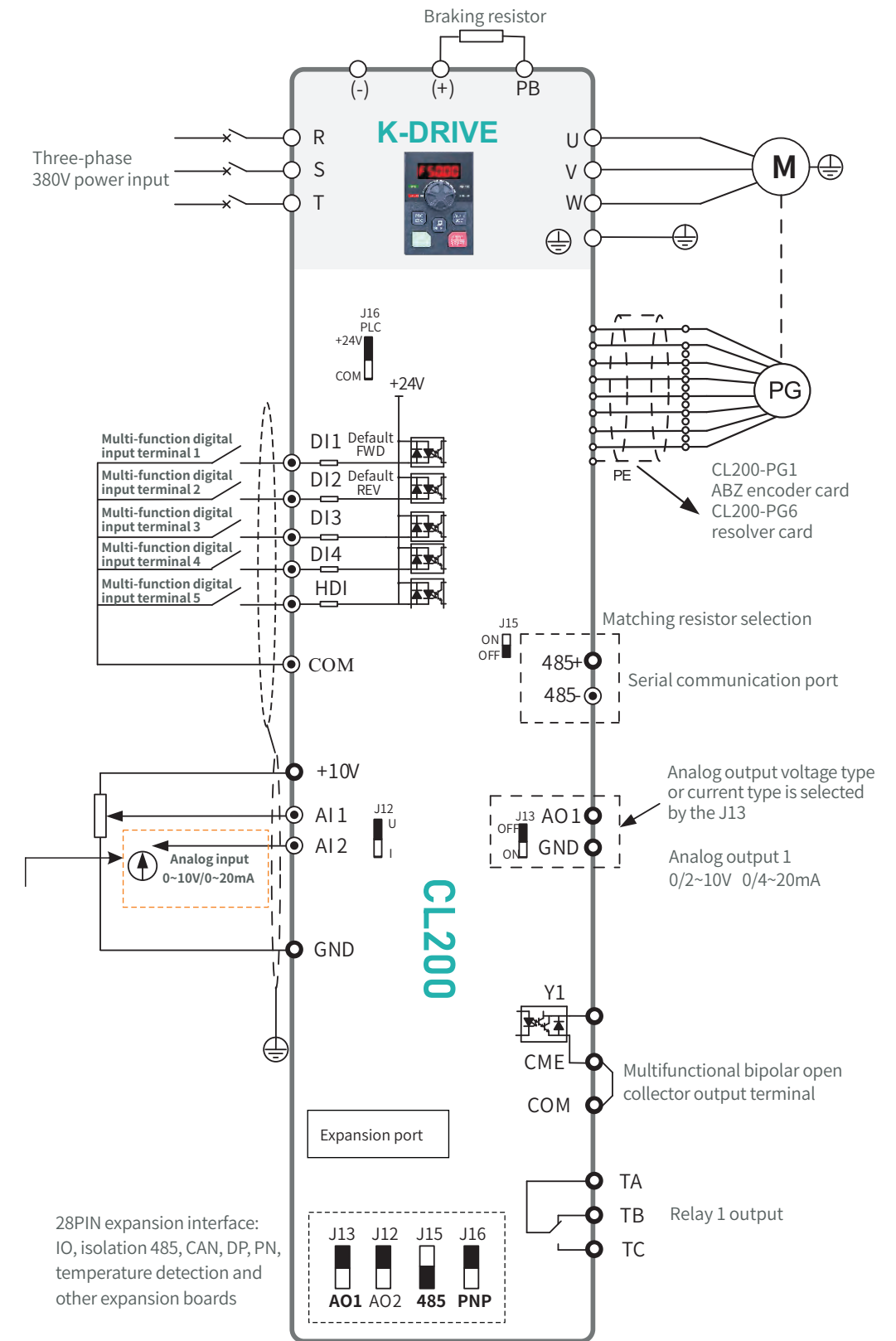
Control performance	
Frequency control range	0-300Hz
Output frequency accuracy	0.01Hz
Set frequency resolution	Digital setting: 0.01Hz; Simulation setting: AD conversion accuracy is one thousandth
Control mode	Three phase asynchronous motor: VF control, SVC, FVC Permanent magnet synchronous motor: SVC, 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

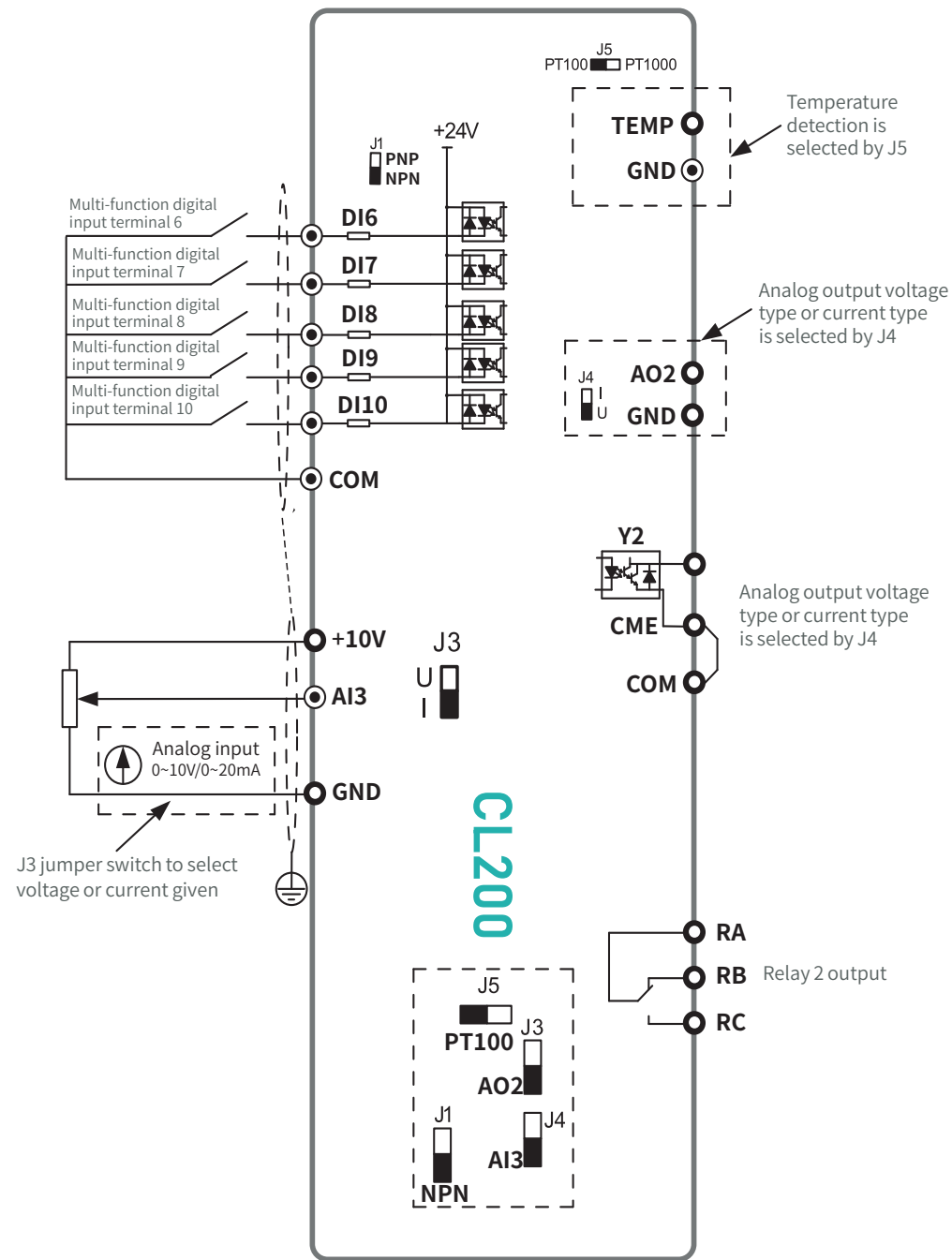
## BASIC CONNECTION

CL200-4T-18.5-315KW

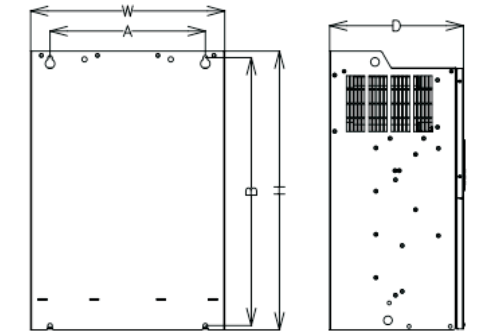


## BASIC CONNECTION

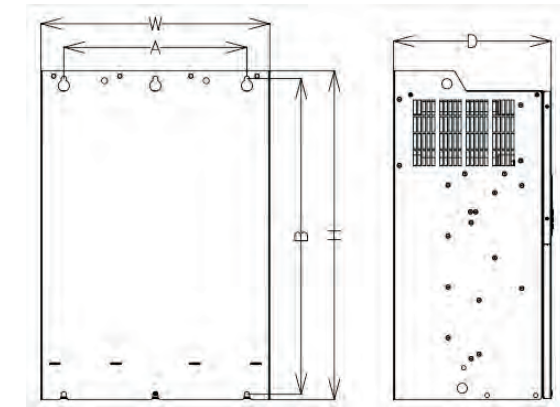
CL00-IO1 expansion card



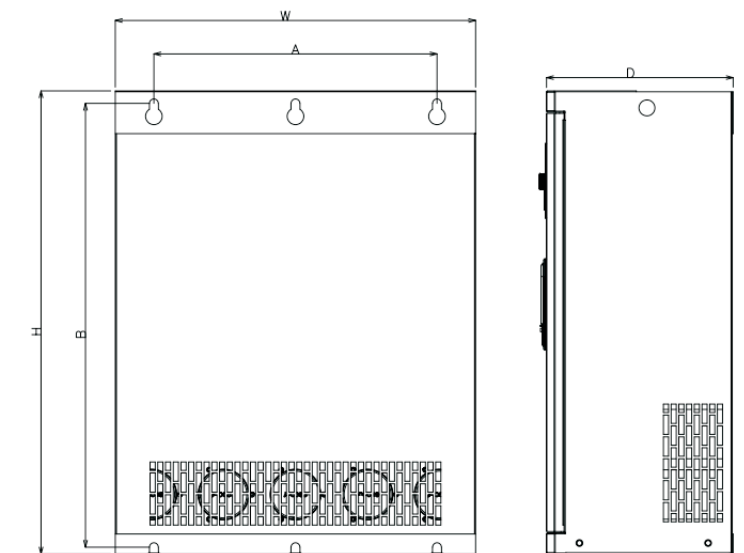
## MODEL AND SIZE



A



B



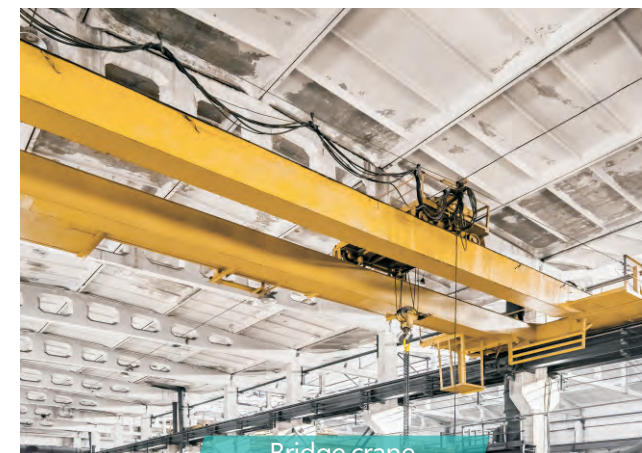
C

# 4T

AC Drive Model	Adapter motor (KW)	Rated Input Current(A)	Rated Output Current(A)	Installation size(mm)		Dimensions (mm)			Aperture d	Frame NO.
				A	B	H	W	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.

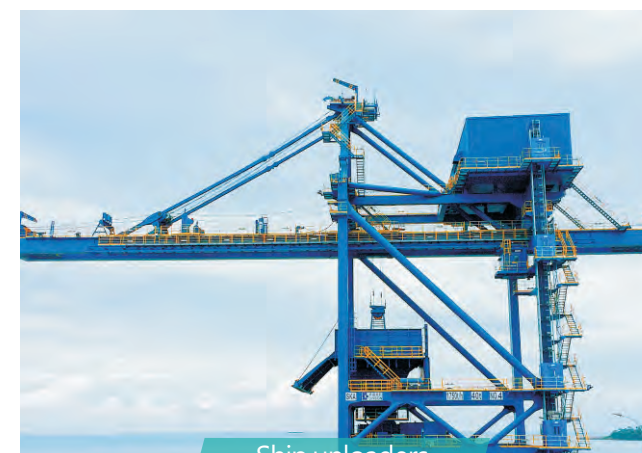
## APPLICATION CASES



Bridge crane



Injection machine



Ship unloaders



Pumping unit



Elevator



Conveyer belt

# 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 cargo construction lifts. The system integrates the functions of frequency converter, wireless video surveillance, wireless voice intercom, wireless remote 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 advantages of comprehensive functions, stable performance, beautiful appearance, easy installation and maintenance, and provides customers with a set of high-performance and complete solutions.

CL200: Power Rate

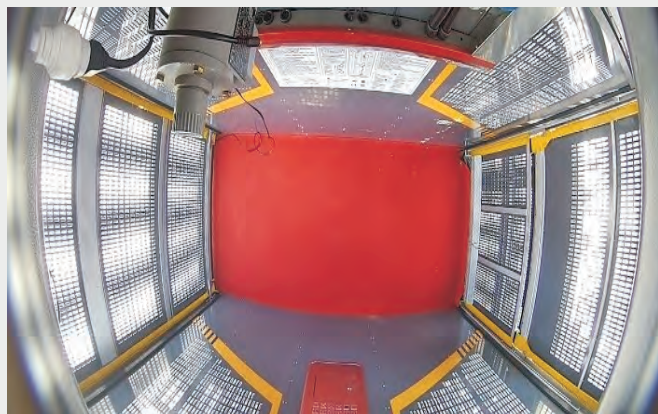
3 phase input  
3 phase output

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

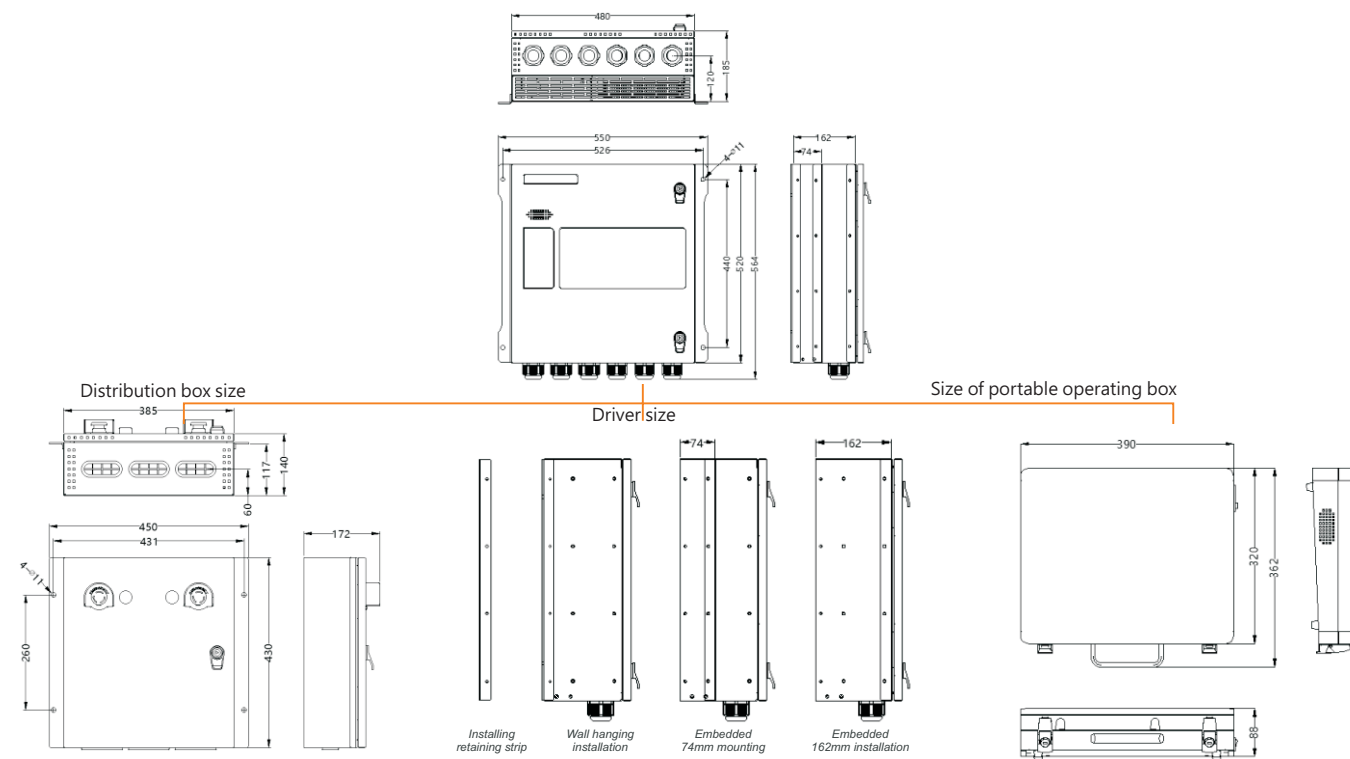
After meeting the operating conditions of the lift, press the floor caller of the corresponding floor, the lift will automatically run to the floor, the worker will close the discharge door after handling things, press the floor caller of the floor, the lift will automatically run to the first floor.



## COMPLETE SYSTEM COMPOSITION

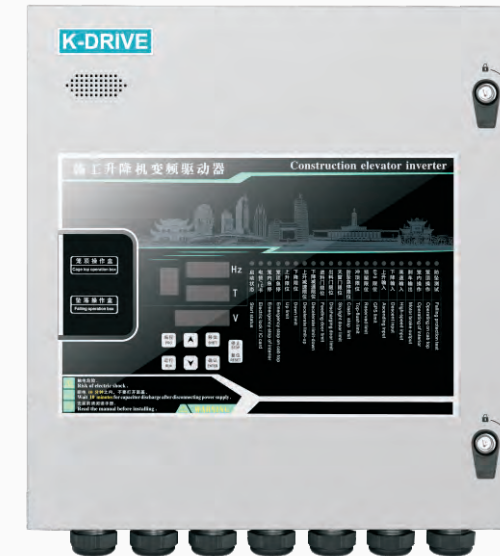


## PRODUCT PARAMETER



## 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 displayed in real time on the door panel, and all limit, handle input and brake output status are pro-mpted by separate indicators;

### 03 Brake resistance short circuit protection

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

### 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;

### 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 adding 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

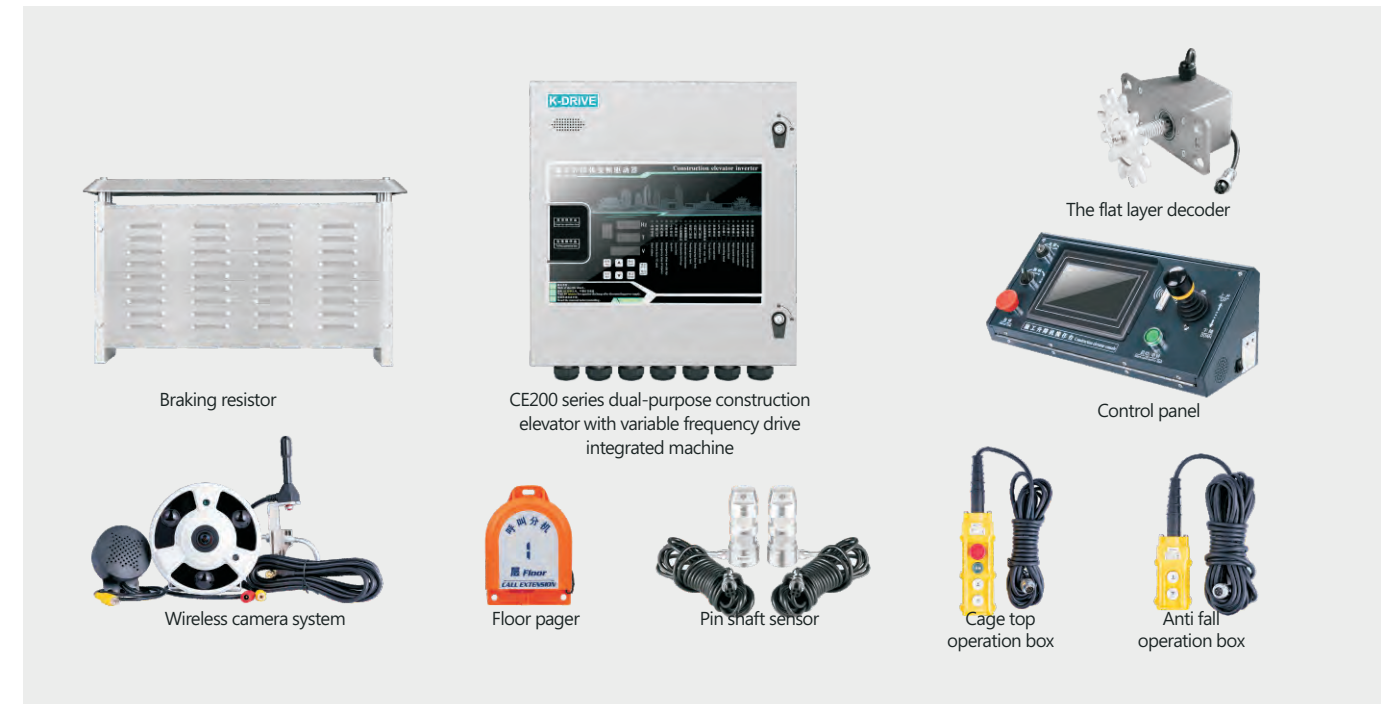
Through the release current, release frequency, release delay time and so on, the special lock control logic is realized to ensure the safe and reliable operation of the lift.

### 07 Pre-authorization function

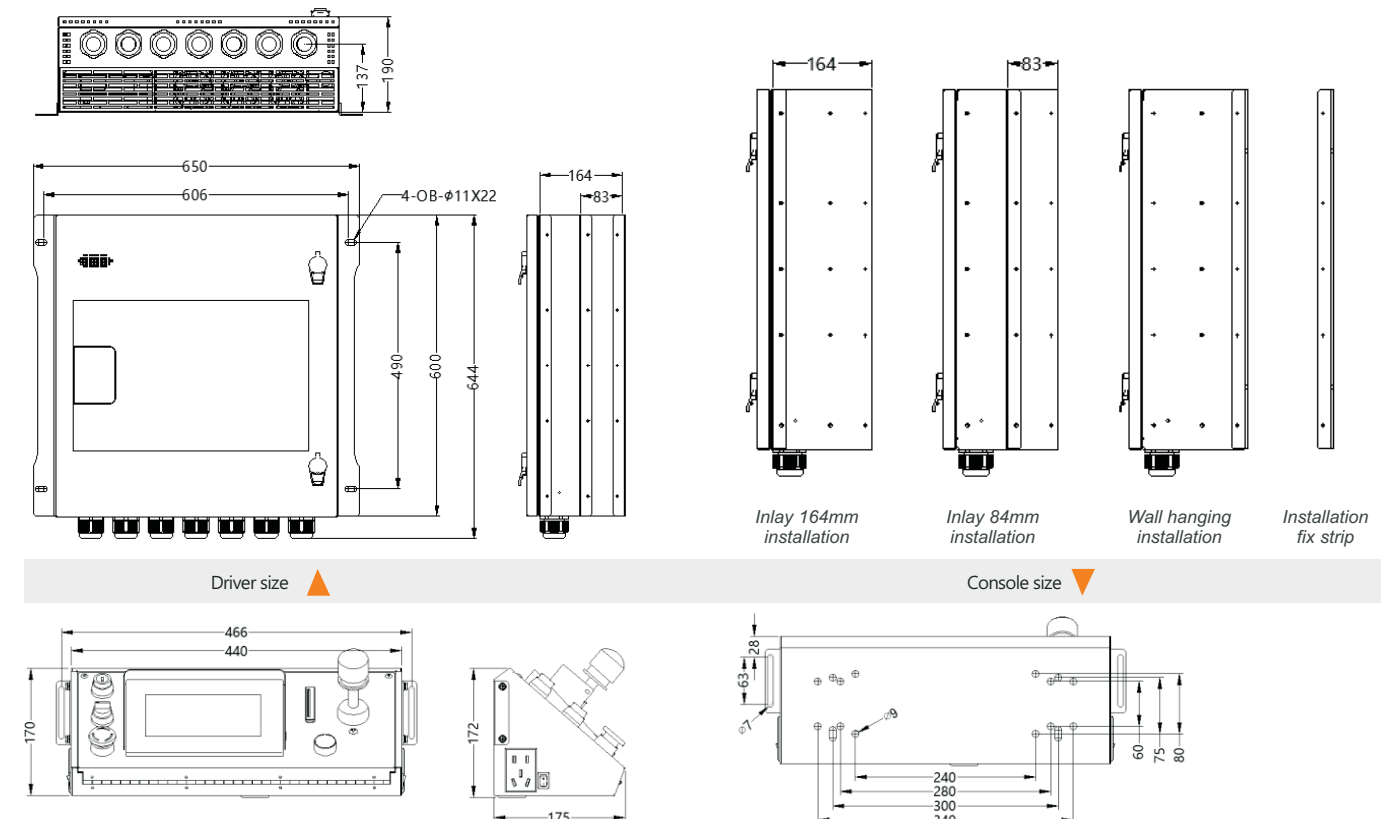
The built-in perpetual calendar clock can be set for three periods of device authorization time, and each of the three periods can be set independent passwords, which is convenient for users to manage the installment payment of the device.



## COMPLETE SYSTEM COMPOSITION



## PRODUCT PARAMETER





# 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.

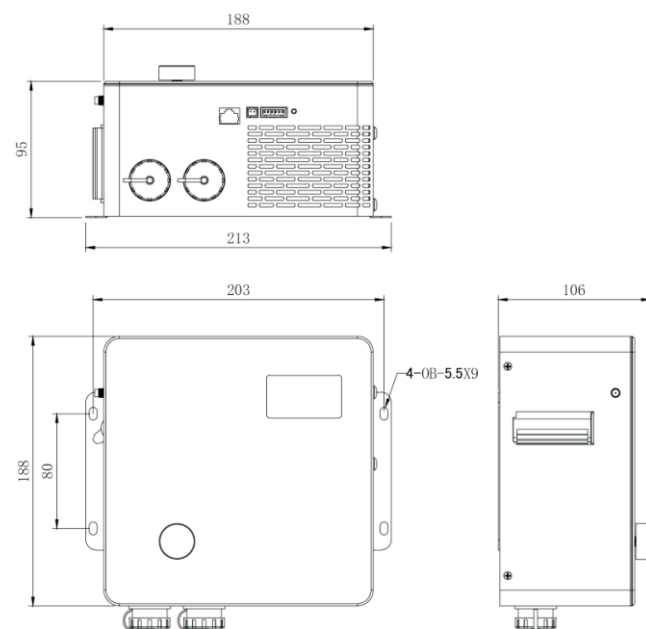
Compatible with asynchronous, synchronous motor control, while supporting a variety of expansion accessories.

## RATED PARAMETER

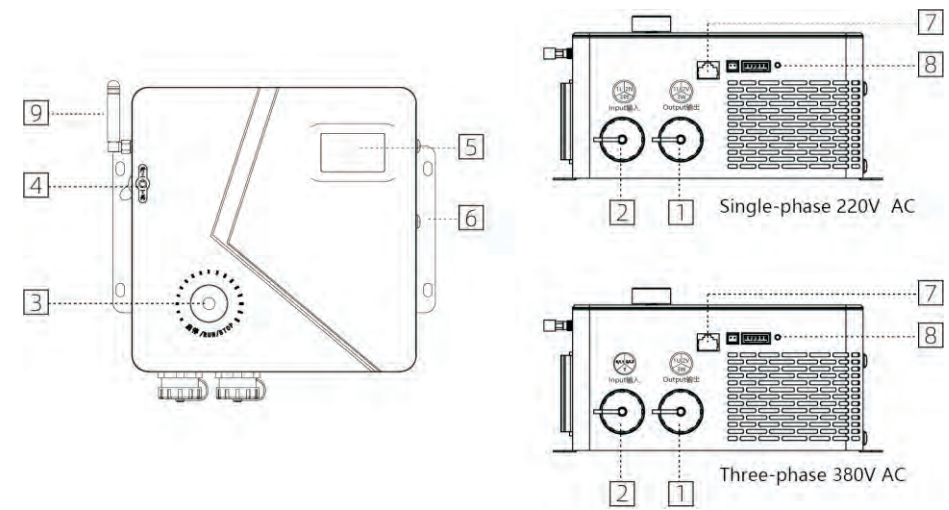
Model	Power (KW)	Input voltage(V)
CF600-3SR75G	0.75	200~240(single or three phase)
CF600-3S1R5G	1.5	
CF600-4TR75	0.75	380V~440V(three -phase)
CF600-4T1R5	1.5	
CF600-4T2R2	2.2	

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

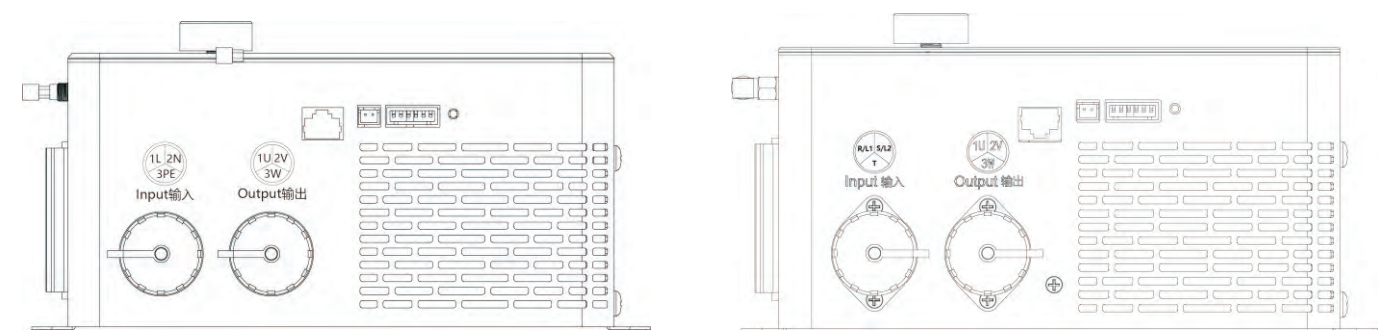


## APPEARANCE FUNCTION



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)	Industrial ceiling fan output terminal	Three-phase output terminal, connected to the motor
Output motor	U		
	V		
	W		

# 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



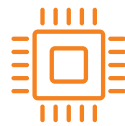
Voltage level:  
AC380V and AC690V



Support LED and LCD  
display, flexible  
parameter Settings.



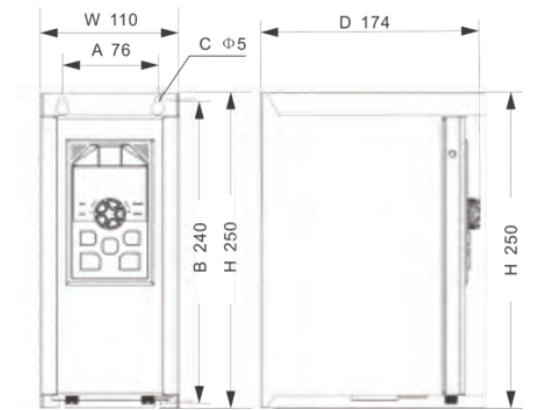
IP21 protection class



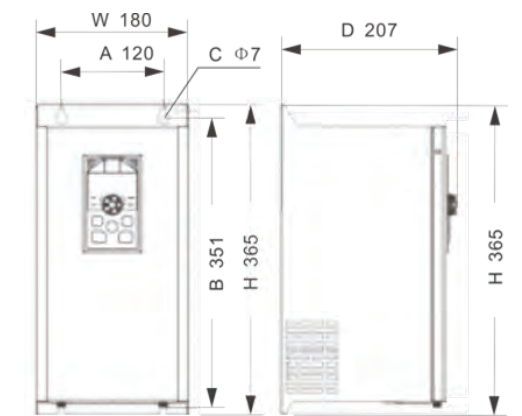
Power range:  
37KW to 800KW

## PRODUCT MODEL AND SPECIFICATION

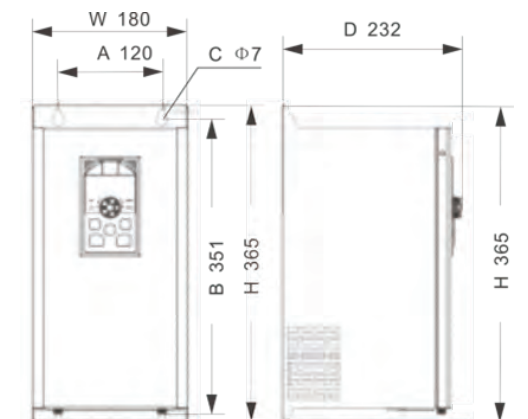
Brake unit type	Voltage level (V)	Minimum allowable resistance (Ω)	Peak current (A)	Maximum adaptive inverter power (KW)	Cable cross-sectional area (mm <sup>2</sup> )
CBR600-4T037	380	24	32	37	6
CBR600-4T075	380	12	60	75	6
CBR600-4T132	380	6.8	110	132	10
CBR600-4T200	380	3.4	210	200	10
CBR600-4T315	380	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



CBR600-7T200 and below installation dimensions hole position diagram

## DIMENSIONS OF MOUNTING HOLES

Model	Installation size (mm)		Dimensions (mm)			Aperture
	A	B	H	W	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



Ac Drive



Wind power converter



Servo

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