

## FEATURES

- **Single-Phase 200V-240V (50Hz/60Hz)/0.4-2.2kW or Three-Phase 380V-480V (50Hz/60Hz)/0.75-15kW**
- **6 Digital Inputs & 2 Digital Outputs**
- **2 Analog Inputs & 2 Analog Outputs**
- **2 Relay Outputs**
- **1 High Speed Pulse Input 1 High Speed Pulse Output Supports Optional 5V, 12V, 24V Incremental PG Card**
- **Modbus RS485**
- **CANopen**



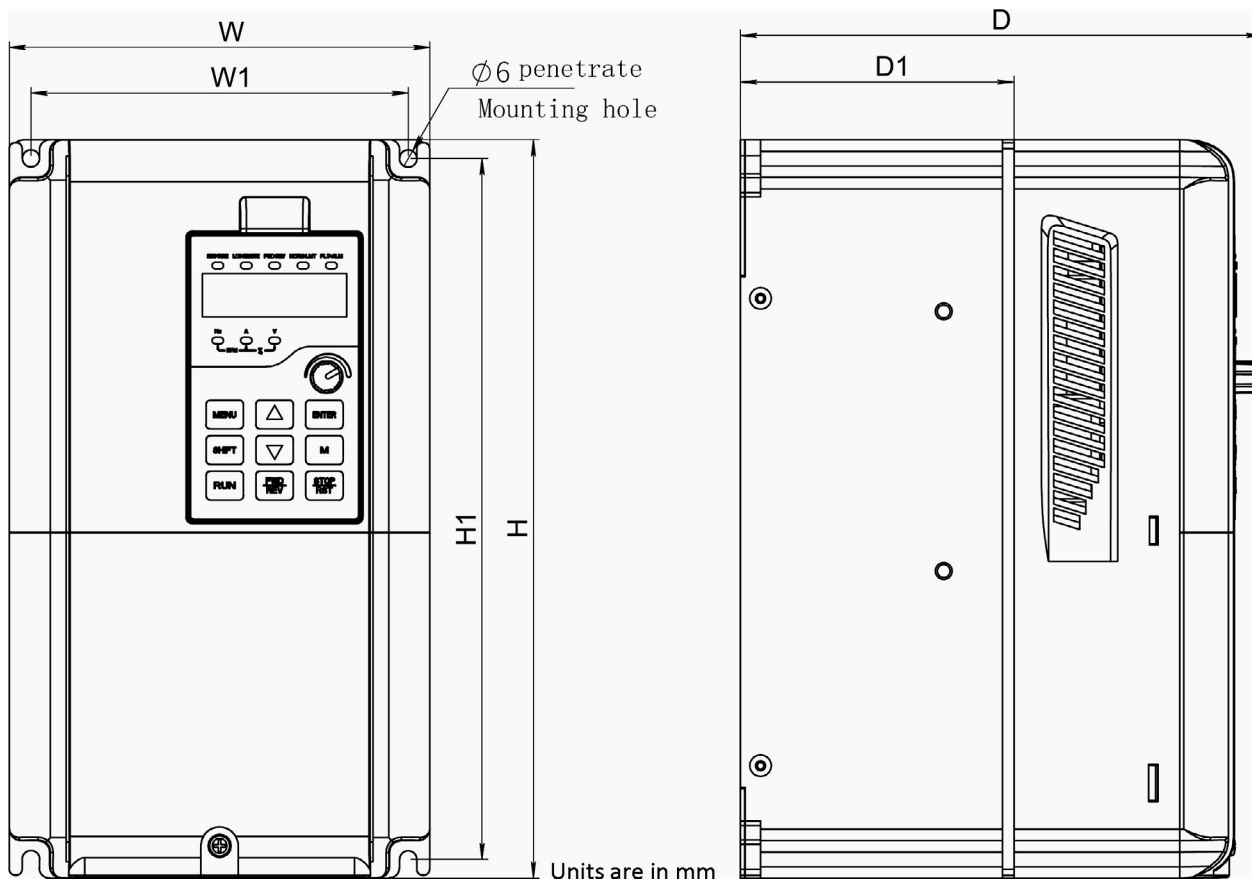
## DESCRIPTION

The KC200 series is a universal vector VFD that is mainly used to control and adjust the speed and torque of Three-Phase asynchronous motors. With its superior independent air duct design it has many benefits such as convenient installation, easy wiring, tremendous heat dissipation, top of the line performance and comprehensive protection. The KC200 series is a complete system, process oriented and strict in the development process of software, hardware, and structure, with attention to detail and the user experience. These VFD's can be used for light load, heavy load, extremely heavy load equipment such as lifting, cement, rubber tires, industrial water treatment, fan ventilation systems, stirring, air conditioner cooling systems, wood working machinery, and various automated production equipment. The KC200 series is mainly used to control and adjust the speed and torque of Three-Phase asynchronous motors.

## SPECIFICATIONS

SERIES #	Input Voltage Range	Max Power (kW)	Max Power (HP)	Rated Current (A)	Installation Type
KC200-2S-0R40G	Single-Phase, 200-240VAC	0.4	0.5	2.5	Wall-Mounted
KC200-2S-0R75G	Single-Phase, 200-240VAC	0.75	1	4	Wall-Mounted
KC200-2S-01R5G	Single-Phase, 200-240VAC	1.5	2	7.5	Wall-Mounted
KC200-2S-02R2G	Single-Phase, 200-240VAC	2.2	3	10	Wall-Mounted
KC200-4T-0R75G	Three-Phase, 380-480VAC	0.75	1	2.3	Wall-Mounted
KC200-4T-01R5G	Three-Phase, 380-480VAC	1.5	2	3.7	Wall-Mounted
KC200-4T-02R2G	Three-Phase, 380-480VAC	2.2	3	5.5	Wall-Mounted
KC200-4T-03R7G	Three-Phase, 380-480VAC	3.7	5	8.8	Wall-Mounted
KC200-4T-05R5G	Three-Phase, 380-480VAC	5.5	7	13	Wall-Mounted
KC200-4T-07R5G	Three-Phase, 380-480VAC	7.5	10	17	Wall-Mounted
KC200-4T-0011G	Three-Phase, 380-480VAC	11	15	25	Wall-Mounted
KC200-4T-0015G	Three-Phase, 380-480VAC	15	20	32	Wall-Mounted

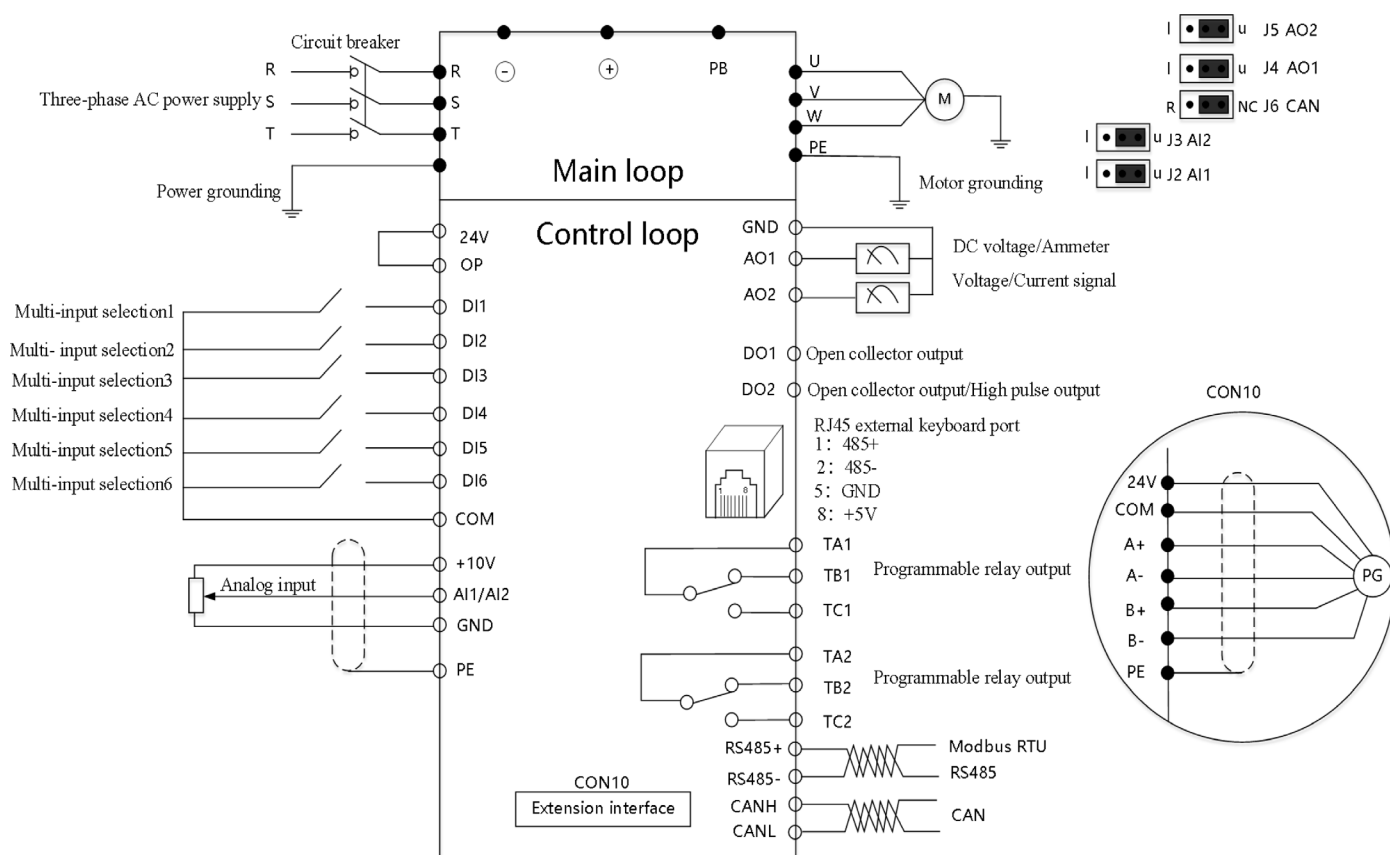
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Part #	Power (kW)	Dimension (mm)						Mounting Hole D	Weight (kg)
		W	H	D	W1	H1	D1		
KC200-2S-0R40G	0.4	126	186	167	115	175	78	4.7	2
KC200-2S-0R75G	0.75								
KC200-2S-01R5G	1.5								
KC200-2S-02R2G	2.2								
KC200-4T-0R75G	0.75								
KC200-4T-01R5G	1.5								
KC200-4T-02R2G	2.2								
KC200-4T-03R7G	3.7	146	256	181	131	243	95	6	6
KC200-4T-05R5G	5.5								
KC200-4T-07R5G	7.5								
KC200-4T-0011G	11								
KC200-4T-0015G	15	170	320	207	151	303	118.5	5.8	8

MODEL	KC200-2S			
	0R40G	0R75G	01R5G	02R2G
The Power of Suitable Motor (kW)	0.4	0.75	1.5	2.2
INPUT				
Rated Voltage(V) / Rated Frequency	1-Phase 200V ~ 240V 50Hz/60Hz			
Rated Input Current (A)	5	10	20	20
Fluctuation Range	Voltage: -15% ~ +10%, Frequency: ±5%			
Power Supply Capacity (kVA)	1.0	1.5	3	4
OUTPUT				
Output Current (A)	2.5	4.0	7.5	10
Output Voltage	0 ~ Input Voltage			
Range of Output Frequency	0 ~ 600Hz			
Overload Capacity	60s at 150% the Rated Current, 3s at 180% Rated Current			
COOLING METHOD				
Forced Air Cooling				

MODEL	KC200-4T							
	0R75G	01R5G	02R2G	03R7G	05R5G	07R5G	0011G	0015G
The Power of Suitable Motor (kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15
INPUT								
Rated Voltage(V) / Rated Frequency	3-Phase 380V ~ 480V 50Hz/60Hz							
Rated Input Current (A)	3.4	5	5.8	10.5	14.5	20.5	26	35
Fluctuation Range	Voltage: -15% ~ +10%, Frequency: ±5%							
Power Supply Capacity (kVA)	1.5	2.5	3.6	5.8	8.6	11	16.5	21
OUTPUT								
Output Current (A)	2.3	3.7	5.5	8.8	13	17	25	32
Output Voltage	0 ~ Input Voltage							
Range of Output Frequency	0 ~ 600Hz							
Overload Capacity	60s at 150% the Rated Current, 3s at 180% Rated Current							
COOLING METHOD								
Forced Air Cooling								



	MAIN CONTROL CHARACTERISTICS
Control Method	V/F Control, Open Loop Vector Control (SVC), Closed Loop Vector Control
Starting Torque	Open Loop Vector Control: 150% Rated Torque at 0.5Hz; Closed Loop Vector Control: 200% Rated Torque at 0Hz
Frequency Accuracy	Digital Setting: Max. Frequency x $\pm 0.01\%$ ; Simulation Setting: Max. Frequency x $\pm 0.2\%$
Frequency Resolution	Digital Setting: 0.01Hz; Simulation Setting: Max. Frequency x 0.05%
Torque Boost	Automatic Boost: 0.0%; Manual Torque Boost: 0.1%~30.0%
V/F Pattern (Curve)	4 Patterns: 1 User Set V/F Curve Mode and 3 Torque Reduction Characteristic Curve Mode
Acceleration/Deceleration Curve	Straight-Line or S-Curve Acceleration/Deceleration; Four Groups of Acceleration/Deceleration Time.
	CUSTOMIZED FUNCTION
Operation Command	Keypad Setting, Terminal Setting, Communication Setting
Frequency Command	Digital Setting, Analog Voltage Setting, Analog Current Setting
Auxiliary Frequency Setting	Implement Flexible Auxiliary Frequency Trim and Frequency Synthesis
Input Terminals	6 Digital Input Terminals, 1 of which Supports High-Speed Pulse Input up to 100KHz 2 Analog Input Terminals, Support 0 ~ 10V / 0 ~ 20mA Input
Output Terminals	Two analog output terminals, both supporting 0 ~ 10V/0 ~ 20mA output; 2 digital output terminals, one of which supports 0.1kHz ~ 100kHz pulse square wave signal output, which can realize the output of physical quantities such as set frequency and output frequency. 2 sets of relay output terminals.
Protection Function	Overcurrent Protection, Overvoltage Protection, Undervoltage Protection, Overheat Protection, Overload Protection, Missing Phase Protection (Selectable) and So On
	ENVIRONMENT
Altitude	In areas with an altitude exceeding 1000m, due to the poor heat dissipation effect of the frequency converter due to the thin air, it needs to be derated for use, with a 1% derating for every 100m increase.
Ambient Temperature	-10°C ~ +50°C, +40°C ~ +50°C Use Derated
Humidity	5%~95%RH, Non-Condensing
Vibration	Less Than 5.9m/s <sup>2</sup> (0.6g)
Storage Temperature	-20°C ~ +60°C
Level of Protection	IP20
Installation Method	Wall-Mounted