CV20-2S Series



FEATURES

DIMENSIONS



- Carrier frequency up to 15KHz
- Auto torque boost and auto slip compensation function
- Built-in PID control
- Modbus Communication (RS485 baud rate up to 19200bps)
- Sleep/wake up function



The CV20-2S Series is a rugged line of AC Variable Frequency Drives for OEM and Industrial applications, combining high performance and cost efficiency into one powerful package. Available in input voltages of 180V and 260V and capable of powering AC motors from 0.25 to 30Hp, these VFDs are great for normal duty and soft-start operation. These drives provide energy savings and increased efficiency, making them ideal for fan, pump, and HVAC applications. They are equipped with a number of different features such as momentary power loss restarts, flying starts, auto-acceleration/deceleration, and sensorless vector control. These features make the VFDs compatible with most AC motors and allow for flexibility within an application.



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SERIES #	Input Voltage Range	Max Power (hp)	Rated Current (A)	Overload Tolerance for One Minute (A)	Installation Type
CV20-2S-0004G	Single-Phase, 200-240VAC	0.4	2.5	2	Cabinet or Enclosure
CV20-2S-0007G	Single-Phase, 200-240VAC	0.75	4.0	3	Cabinet or Enclosure
CV20-2S-0015G	Single-Phase, 200-240VAC	1.5	7.5	6	Cabinet or Enclosure

MODEL	CV20-2S						
		0004	0007	0015			
The Power of Suitable Motor (KW)		0.4	0.75	1.5			
OUTPUT							
Voltage (V)	3-Phase, 0~ Rated Input Voltage						
Rate Current (A)		2.5	4.0	7.5			
Overload Capacity		50% Rated Current for 1 Minute, 180% Rated Current for 10 Seconds; 10 Minutes Interval (Inverse Time LImit Speciality)					
INPUT							
Rated Voltage/Frequency	Single Phase, 200-240VAC; 50Hz/60Hz						
Allowable Voltage Range	180-260VAC; Voltage Unbalancedness:<3%; Frequency: 5%						
Rated Current (A)		5.3	8.2	14.0			
Brake Unit	Built-In						
Protection Class	IP20						
Cooling Method	Cooling by Fan						



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INPUT						
Rated Voltage/Frequency	Single Phase, 200-240VAC; 50Hz/60Hz					
Allowable Voltage Range	Voltage Unbalanceness:<3%; Frequency: ±5%					
	OUTPUT					
Voltage	0~Rated Input Voltage					
Frequency	OHz-300Hz					
Overload Capacity	G Type: 150% Rated Current for 1 Minute, 180% Rated Current for 10 Seconds					
MAIN CONTROL CHARACTERISTICS						
Control Method	V/F Control					
Starting Torque	1Hz: 150% Rated Torque					
Frequency Accuracy	Digital Setting: Max. Frequency x ±0.01%; Analog Setting: Max. Frequency x ±0.2%					
Frequency Resolution	Digital Setting: 0.01Hz; Analog Setting: Max. Frequency x 0.05%					
Torque Boost	Manual Torque Boost: 0%~30.0%					
V/F Pattern	4 Patterns: 1 V/F Curve Mode Set by User and 3 Kinds of Torque-Derating Modes (2.0 Order, 1.7 Order, 1.2 Order)					
Acceleration/Deceleration Curve	Linear Acceleration/Deceleration. Four Kinds of Acceleration/Deceleration Time					
Auto Current Limit	Limit Current During Operation Automatically to Prevent Frequent Over Current Trip					
OPERATION FUNCTION						
Operation Command	Operation Panel, Terminal, Communication Control, Support Switching Between These Controls Channels					
Frequency Setting	Digital Setting, Analog Voltage Setting, Analog Current Setting					
Auxiliary Frequency Setting	Support Main and Auxilary Setting					
	OPERATION PANEL					
LED Display	Display Setting Frequency, Output Frequency, Output Voltage, Output Current and so on, About 20 Parameters					
Key Lock and Function Selection	Lock Part of Keys or All of Keys. Define the Function of Part of Keys					
Protection Function	Open Phase Protection (Optional), Overcurrent Protection, Overvoltage Protection, Undervoltage Protection, Overheat Protection, Overload Protection, and So On					
ENVIRONMENT						
Operating Site	Indoor, Installed in the Environment Free from Direct Sunlight, Dust, Corrosive Gas, Combustible Gas, Oil Mist , Steam and Drip					
Altitude	Derated Above 1000m, The Rated Output Current Shall be Decreased by 10% for Every Rise of 1000m					
Ambient Temperature	-10°C~ + 40°C (Derated at 40°C~50°C)					
Humidity	5%~95%RH, Non-Condensing					
Vibration	Less Than 5.9m/s² (0.6g)					
Storage Temperature	-40°C~ + 70°C					
	STRUCTURE					
Protection Class	IP20					
Cooling Method	Air Cooling, With Fan Control					
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