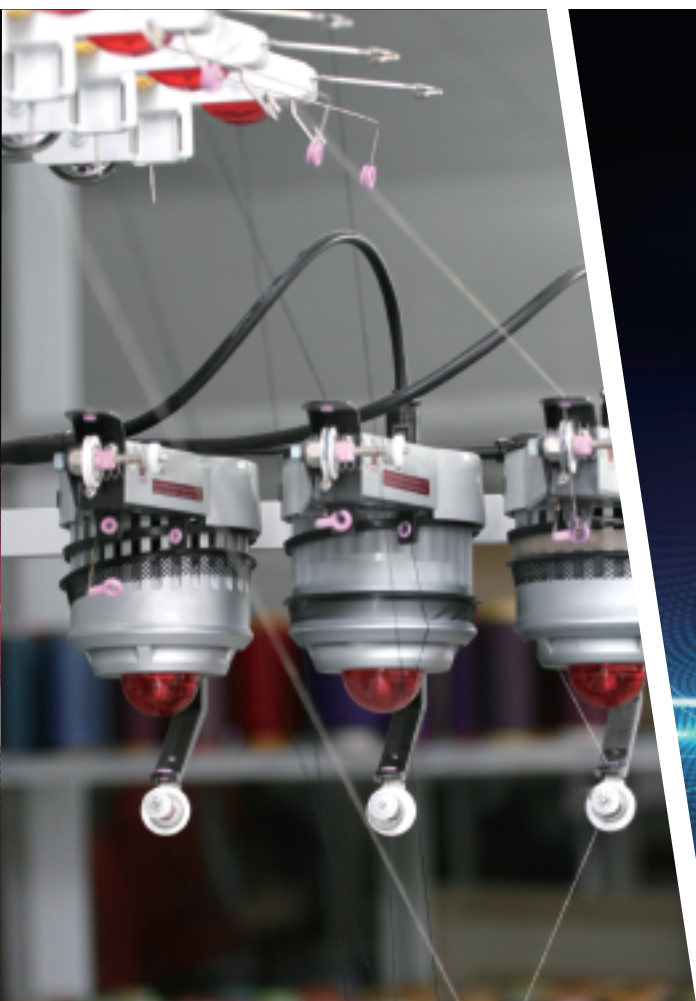


Canroon



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CV800 Series Multi-Function Inverter

Product Overview



CV800 series multi-function inverter is specially designed for small and medium power equipment.

The product adopts vectorized V/f control technology, built-in PID control, multi-speed control, programmable operation control, standard Modbus communication and other technologies. The compact structure can further reduce the installation space.

Product Features

- Compact and powerful
- High starting torque, adapt to various loads
- Supports programmable operation control, making complex applications easier
- Stronger overload capacity, shorter acceleration time
- Built-in PID function for full-closed-loop control
- Comprehensive protection function, more reliable operation

CV800 series application field

CV800 series multi-function inverter is powerful functions and excellent in performance, suitable for medium and small power applications, such as constant pressure water supply, woodworking machinery, textile equipment, food filling, logistics equipment, automated production lines, ceramic equipment, electronic equipment, packaging machinery, etc.



Constant pressure water supply



Textile equipment



Automated production line



Food filling

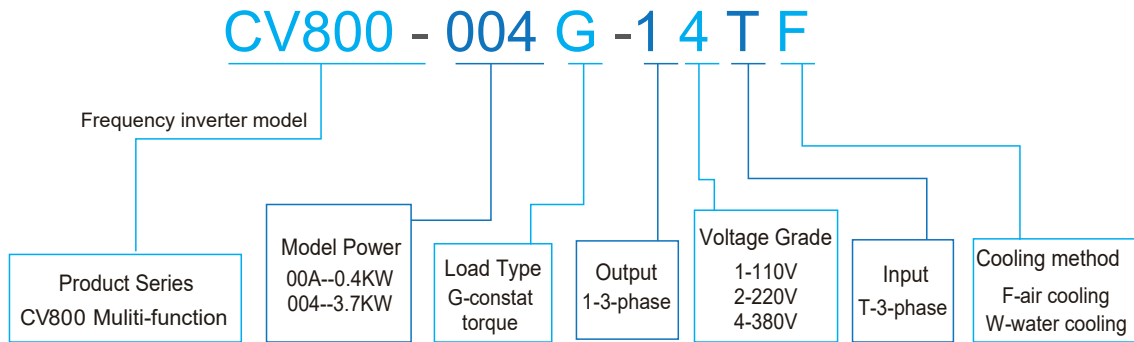


Packaging machinery



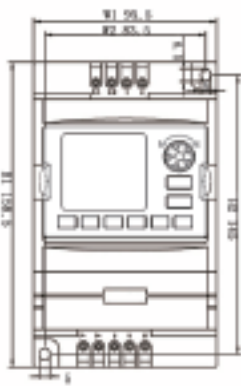
Ceramic equipment

⦿ Inverter model description

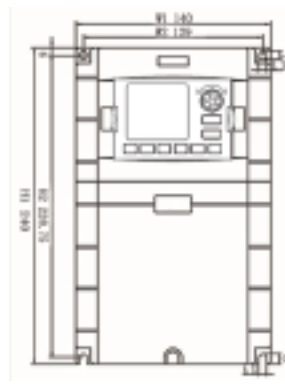
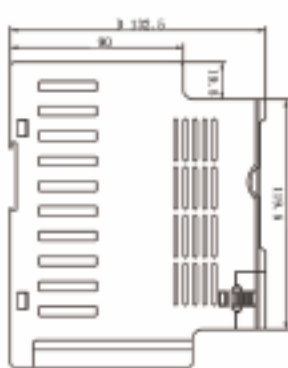


⦿ Overall dimensions

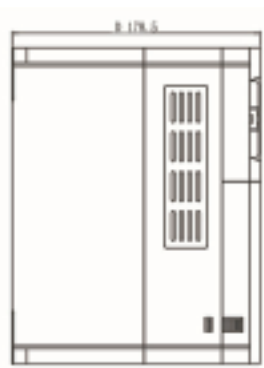
Voltage class	Specification model	Rated Power (KW)	Dimensions (mm)			Installation size (mm)			Package dimensions (mm)			Net weight (kg)	Figure
			W1	H1	D	W2	H2	φ	L	M	H		
380V 3-phase	CV800-00AG-14TF	0.4KW	95.5	158.5	132.5	83.5	145	5	195	132	172	1.25	A
	CV800-00BG-14TF	0.75KW											
	CV800-001G-14TF	1.5KW											
	CV800-002G-14TF	2.2KW											
	CV800-004G-14TF	3.7KW											
	CV800-005G-14TF	5.5KW	140	240	178.5	129	228.75	5.3	300	210	250	2.2	B
	CV800-007G-14TF	7.5KW											
	CV800-011G-14TF	11 KW											



A



B

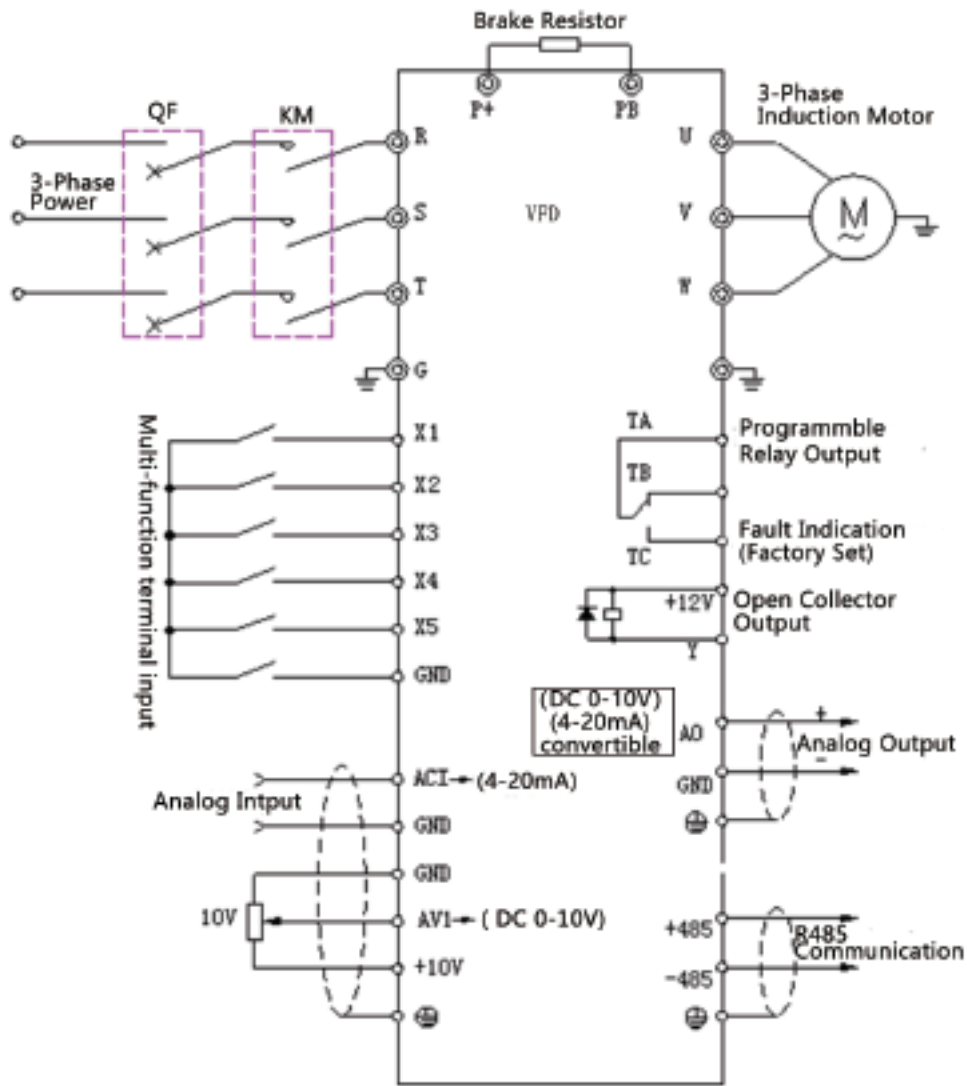


Technical Index and Specification

Input	Rated Voltage, Frequency	3-phase (-4T) 380V;50/60HZ		
	Allowed Voltage Range	3-phase (-4T)320V~460V		
Output	Voltage	4T; 0~380V		
	Frequency	0~600HZ		
	Overload Capacity	10% for long-term, 150% for 1 min, 180% for 5s		
Control Mode		V/F control, Simple vector control		
Control Character	Frequency Setting Resolution	Analog Input	0.1% of maximum output frequency	
		Digital Setting	0.1Hz	
	Frequency Precision	Analog Input	Within 0.2% of maximum output frequency	
		Digital Setting	Within 0.01% of set output frequency	
	V/F Control	V/F Curve (voltage frequency character)	Reference frequency setting 5~600 Hz, multipoint V/F curve setting, or fixed curve of constant torque, low decreasing torque 1, low decreasing torque 2, square torque	
		Torque Compensation	Manual setting: 0.0~30% of rated output	
		Automatic Current-limiting and Voltage-limiting	During acceleration, deceleration or steady running, detect automatically the current and voltage of motor stator, and control it within bounds based on unique algorithm, minimize fault-trip chance	
	Senseless Vector Control	Voltage Frequency Character	Adjust pressure/frequency ratio according to motor parameter and unique algorithm	
		Torque Character	Starting torque;100% rated torque at 5.0 Hz (V/F Control) 150% rated torque at 1.5 Hz (simple vector control)	
		Current and Voltage Restrain	Current closed-loop control, free from current impact, perfect restrain function of overcurrent and overvoltage	
Undervoltage Restrain during Running	Specially for users with a low or unsteady voltage power grid: even lower than the allowable voltage range, the system can maintain the longest possible operating time based on its unique algorithm and residual energy allocation strategy			
Multi-velocity and Traverse Operation	7-segment programmable multi-velocity control, multiple operating modes are optional.			
PID Control	Built-in PID controller (able to preset frequency).			
RS485 Communication	Standard configuration RS485 communication function, multiple communication protocol for choice, synchronizing control function.			
Frequency Setting	Analog Input	Direct voltage 0~10V, direct current 0~20mA (optional up limit and lower limit)		
	Digital Output	Operation panel setting, RS485 port setting, UP/DW terminal control, or combined with analog input		
Output Signal	Digital Output	1 channel OC output and one channel relay output (TA, TB,TC), up to 14 choices		
	Analog Input	1 channel analog signal output, output ranging within 0~20mA or 0~10V with flexibly setting, achievable output of physical quantities like set frequency, output frequency		
Automatic Steady-voltage Operation	Dynamic steady state, static steady state, and unsteady voltage for choices to obtain the steadiest operation			
Acceleration and Deceleration Time Setting	0.1S~999.9min continuous setting			
Brake	Dynamic Braking	Dynamic braking initial voltage, backlash voltage and dynamic braking continuous adjustable		
	DC Braking	Halt DC braking initial frequency:0.00~(F0.05)upper limit frequency Braking time:0.0~30.0s;Braking current:0.0%~50.0%of rated current		
Low Noise Running	Carrier frequency 1.0kHz~16.0kHz continuous adjustable, minimize motor noise			
Counter	A built-in counter, facilitate system integration			
Operation Function	Upper limit and lower limit frequency setting, frequency hopping operation, reversal running restraint, slip frequency compensation, RS485 communication, frequency control of progressive increase and decrease, failure recovery automatically, etc.			
Display	Operation Panel Display	Running State	Output frequency, output current, output voltage, motor speed, set frequency, module temperature, PID setting, feedback, analog input and output.	
		Alarm	The latest 1 faults record; running parameters record when the latest fault tripping happens including output frequency, set frequency, output current, output voltage, DC voltage and module temperature etc 6 running parameters record.	
Protective Function		Overcurrent, overvoltage, undervoltage, module fault, electric thermal relay, overheat, short circuit, default phase of input and output, motor parameter adjustment abnormality, internal memory fault, etc.		
Environment	Ambient Temperature	-10 C~+40 C (please run the VFD in derated capacity when ambient temperature is 40°C~50°C)		
	Ambient Humidity	5% ~ 95%RH, without condensing drops		
	Surroundings	Indoors (without direct sunlight, corrosive or flammable gas, oil fog and dust)		
	Altitude	Running in derated capacity above 1000m, derate 10% for every 1000m rise.		
Structure	Protection Level	IP20		
	Cooling Method	Air cooling with fan control		
Installation Method		Wall-hanging type, Cabinet type		

Basic Running Wiring

The wiring parts of VFD include major loop and control loop. Open the cover of I/O terminals, users can see the major loop terminal and control loop terminal, and must conduct the wiring according to the following diagram.



0.4kw ~ 11 kw

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