

CV100 Series VFD



Main features

- Built in Bluetooth module, can realize debugging from smart phone
- Control mode: V/F control, Open loop vector control
- Automatic torque lifting and automatic slip compensation function
- Build-in PID control
- Standard Modbus

Technical specification

VFD model	Rated capacity (kVA)	Rated input current(A)	Rated output current(A)	Adaptable motor(kW)
CV100-2S-0004G	1.0	5.3	2.5	0.4
CV100-2S-0007G	1.5	8.2	4.0	0.75
CV100-2S-0015G	3.0	14.0	7.5	1.5
CV100-2S-0022G	4.0	23.0	10.0	2.2
CV100-4T-0007G	1.5	3.4	2.3	0.75
CV100-4T-0015G	3.0	5.0	3.7	1.5
CV100-4T-0022G	4.0	5.8	5.5	2.2
CV100-4T-0037G	5.9	10.5	7.8	3

Specification

Item	Description	
Input	Rated voltage and frequency	4T: 3-phase,380V~440V AC; 50Hz/60Hz; 2T: 3-phase, 200V~240V;50Hz/60Hz; 2S: Single-phase,200V~240V;50Hz/60Hz
	Allowable voltage range	4T: 320V~460V AC; 2T/2S:180V~260V;Voltage tolerance < 3%; Frequency: ±5%
Output	Rated voltage	0~Rated input voltage
	Frequency	0Hz~300Hz(Customized 0Hz~3000Hz)
Control Characteristics	Overload capacity	G type : 150% rated current for 1 minute, 180% rated current for 10 seconds; L type :110% rated current for 1 minute, 150% rated current for 1 second
	Control mode	V / F control SVC (open loop vector control)
Control Characteristics	Modulation mode	Space vector PWM modulation
	Starting torque	0.5Hz 150%rated torque
	Frequency accuracy	Digital setting : Max frequency ×±0.01% ; Analog setting : Max. frequency ×±0.2%
	Frequency resolution	Digital setting: 0.01Hz ; Analog setting: Max frequency×0.1%
	Torque boost	Manual torque boost :0% ~ 30.0%
	V/F pattern	4 patterns: 1 kind of V/F curve mode set by user and 3 kinds of torque-derating modes (2.0 order, 1.7 order, and 1.2 order)
	Acc/Dec curve	Linear acceleration/deceleration, Four kinds of acceleration/deceleration time are optional
	Auto current limit	Limit current during the operation automatically to prevent frequent over-current trip
Customized function	Jog	Range of jog frequency: 0.20Hz~50.00Hz; Acc/Dec time of Jog operation: 0.1~60.0s, Interval of Jog operation is also settable.
	Multiple speed operation	Implement multiple speed operation by digital inputs
Operation function	Bluetooth	debugging inverter with smart phone
	Operation command	Keypad setting, terminal setting, communication setting
	Frequency command setting	Digital setting, Analog voltage setting, Analog current setting, Pulse setting
	Auxiliary frequency setting	Implement flexible auxiliary frequency trim and frequency synthesis.
Operation panel	Analog output terminal	2 channels analog output (0/4~20mA or 0/2~10V). For example setting frequency, output frequency etc.
	LED Display	Display frequency setting, frequency output, voltage output, current output and so on, about 20 parameters.
	Parameters copy	Copy parameters by operation panel.
Protection functionnel	Keys lock and function selection	Lock part of keys or all the keys. Define the function of part of keys, in case of misoperation.
		Open phase protection (optional), overcurrent protection, overvoltage protection, undervoltage protection, overheat protection, and 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 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/s ² (0.6g)
Structure	Storage temperature	- 40°C ~ + 70°C
	Protection class	IP20
Installation method	Cooling method	Air cooling, with fan control.
		Wall-mounted
Efficiency	Power under 45kW≥90% ; Power above 55kW≥90%	

CV20 Series VFD



Main Features

- Output frequency 0~300Hz
- V/F control and setable V/F curves
- Carrier frequency up to 6kHz
- Standard equipped Modbus(RS485 baud rate up to 19200bps)

CV20 Specification

Model	CV20-2S-0004G	CV20-2S-0007G	CV20-2S-0015G	CV20-4T-0007G	CV20-4T-0015G	CV20-4T-0022G	CV20-4T-0037G
The power of suitable motor (kW)	0.4	0.75	1.5	0.75	1.5	2.2	3
Input	Rated voltage / frequency			Single phase 200V~240V, 50/60Hz			
	Allowable voltage range			180V~260V, Voltage unbalancedness:<3%, frequency: ±5%			
	Rated current (A)			3 phase 380V~440V, 50/60Hz			
Output	Voltage (V)			180V~260V, Voltage unbalancedness:<3%, frequency: ±5%			
	Rated current (A)			0~rated input voltage			
	Overload capacity			0~rated input voltage			
Protection class	IP20						
Cooling method	Air cooling						