Kinco步科



CV20 Improvised mini VFD

Feature:

V/F control;

Built-in PID control;

Extreme compact size saves installation space;

DIN-rail mounting and wall mounting speed up installation;

Terminals uncovered, easy for wiring;

Standard supports MODBUS via RS485, baud rate up to 19200bps;

Maintenance-free.

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Technical specification:

Item		CV20-2S-0004G	CV20-2S-0007G	CV20-2S-0015G						
Adaptable motor	(KW)	0.4	0.75	1.5						
Rated output cur	rent(A)	2.5	4.0	7.5						
Rated input curre	ent(A)	5.3	14.0							
	Rated voltage&	2T: 3-phase, 200~240VAC; 50Hz/60Hz								
Input	frequency	2S: Single-phase, 200~240VAC; 50Hz/60Hz								
	Allowable voltage range	2T: 180~260VAC; 2S: 180~260VAC; Voltage tolerance<3%; Frequency: ±5%								
	Rated voltage	0~Rated input voltage								
Output	Frequency	0Hz~300Hz								
	Overload capacity	G type: 150% rated current for 1 minute; 180% rated current for 10 seconds;								
	Control mode	V/F control								
	Modulation mode	Space vector PWM modulation								
	Starting torque	1 Hz 150% rated torque								
	Frequency accuracy	Digital setting: Max frequency ×±0.01%; Analog setting: Max. frequency ×±0.2%								
Control	Frequency resolution	Digital setting: 0.01Hz; Analog setting: Max frequency×0.05%								
Characteristics	Torque boost	Manual torque boost :0%~30.0%								
		4 patterns: 1 V/F curve mode set by user and								
	V/F pattern	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								
	Auto current limit	Limit current during the operation automatically to prevent frequent over current trip								
	Operation Command	Operation Panel, Terminal, Communication Control,								
Operation	Operation Command	Support switching between these control channels.								
Function	Frequency Setting	Digital, Analog Voltage/current setting.								
	Auxiliary frequency	Support main and auxiliary setting("+","-", "min", "max")								
		Display setting frequency, output frequency, output voltage, output current and so on,								
Operation panel	LED Display	about 20 parameters.								
Operation parler	Keys lock and function	Lock part of keys or all the keys.								
	selection	Define the function of part of keys								
Protection function	n	Open phase protection (optional), over current protection, overvoltage protection,								
		under-voltage protection, overheat protection, over-load protection and so on.								
	Operating site	Indoor, installed in the environment free from direct sunlight, dust, corrosive gas,								
Environment		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℃~40℃, derated at 40℃~ 50℃								
	Humidity	5%~95%RH, non-condensing								
	Vibration	Less than 5.9m/s2 (0.6g)								
	Storage temperature	-40°C °C ~+70°C								
Structure	Protection class	IP20								
	Cooling method	Air cooling, with fan control.								
Installation metho	od	DIN-rail mounting; Wall-mounted								
Efficiency		≥90%								

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Wiring diagram



Control loop terminal arrangement:	RA	AC	+10V	AV1	X1	X2	ХЗ	X4	сом	RS-485
							_			
	PIN	1	2	3	4	5	6			
RS-485 PIN definition:	Signal	NA	NA	485+	485-	NA	NA		123456	
								_		/

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Outlook



Mechanical dimensions





Mechanical parameters

	External dimension and (mm)							Weight
VFD model	W	н	D	W1	H1	T1	Installation hole(d)	(kg)
CV20-2S-0004G								
CV20-2S-0007G	68	132	131	56	120	12	5	0.8
CV20-2S-0015G								