



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.

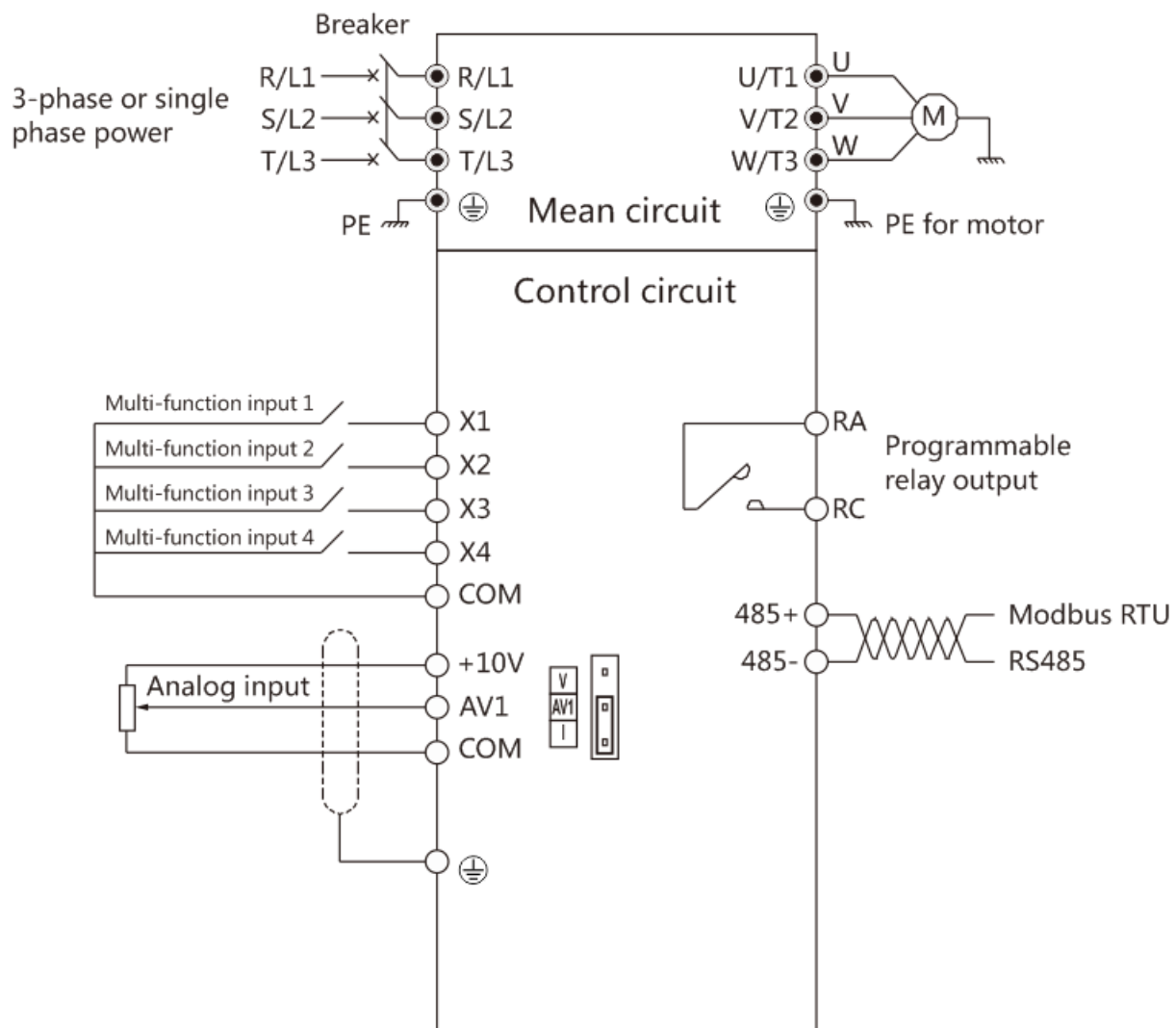
Kinco CV20 Improvised Mini VFD

Technical specification:

Item		CV20-2S-0004G	CV20-2S-0007G
Adaptable motor(KW)		0.4	0.75
Rated output current(A)		2.5	4.0
Rated input current(A)		5.3	8.2
Input	Rated voltage& frequency	2T: 3-phase, 200~240VAC; 50Hz/60Hz 2S: Single-phase, 200~240VAC; 50Hz/60Hz	
	Allowable voltage range	2T: 180~260VAC; 2S: 180~260VAC; Voltage tolerance<3%; Frequency: $\pm 5\%$	
Output	Rated voltage	0~Rated input voltage	
	Frequency	0Hz~300Hz	
	Overload capacity	G type: 150% rated current for 1 minute; 180% rated current for 10 seconds;	
Control Characteristics	Control mode	V/F control	
	Modulation mode	Space vector PWM modulation	
	Starting torque	1 Hz 150% rated torque	
	Frequency accuracy	Digital setting: Max frequency $\times \pm 0.01\%$; Analog setting: Max. frequency $\times \pm 0.2\%$	
	Frequency resolution	Digital setting: 0.01Hz; Analog setting: Max frequency $\times 0.05\%$	
	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, 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 Function	Operation Command	Operation Panel, Terminal, Communication Control, Support switching between these control channels.	
	Frequency Setting	Digital, Analog Voltage/current setting.	
	Auxiliary frequency	Support main and auxiliary setting("+", "-", "min", "max")	
Operation panel	LED Display	Display setting frequency, output frequency, output voltage, output current and so on, about 20 parameters.	
	Keys lock and function selection	Lock part of keys or all the keys. Define the function of part of keys	
Protection function		Open phase protection (optional), over current protection, overvoltage protection, under-voltage protection, overheat protection, over-load 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℃~40℃, derated at 40℃~50℃	
	Humidity	5%~95%RH, non-condensing	
	Vibration	Less than 5.9m/s ² (0.6g)	
	Storage temperature	-40℃~+70℃	
Structure	Protection class	IP20	
	Cooling method	Air cooling, with fan control.	
Installation method		DIN-rail mounting; Wall-mounted	
Efficiency		$\geq 90\%$	

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Wiring diagram

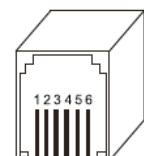


Control loop terminal arrangement:

RA	AC	+10V	AV1	X1	X2	X3	X4	COM	RS-485
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RS-485 PIN definition:

PIN	1	2	3	4	5	6
Signal	NA	NA	485+	485-	NA	NA



Outlook

[illegible]