



Model #: VFD022C53A-21

Date: 2020-04-13

Description								
VFD-C2000, 2/5HP, 1.5/3.7Kw, (HD 3.24/LD 5.16A), 3 Ø 575VAC, 599.0Hz, (V/Hz, VC+PG, SVC, FOC, TQC & PM), c/w PLC, NEMA 1, Frame A								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		Light Duty Output Rating		Single Phase Duty Rating	
Delta Electronics	HD Input Amps Rating	3,7	ND Input Amps Rating	4,4	LD Input Amps Rating	5,3	1 Ø Input Amps Rating	3,7
	Rated HP	Rated Amps	HP	Rated Amps	HP	Rated Amps	HP	Amps
	2,0	3,0	2,0	3,6	3,0	4,3	1,0	1,5
Max. Capacity	2,0	3,6	3,0	4,3	5,0	5,2	1,0	1,5
Line Reactor	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Line	Load	Line	Load	Line	Load	Line	Load
Model	KDRAA44H2	KDRMA47L1	KDRAA44H2	KDRAA52L2	KDRAA58H2	KDRAA58L2	KDRAA44H2	KDRMA45L1
HP Rating	3,0	2,00	3,0	3,00	5,00	5,00	3,00	1,00
Max Amps	4,5	3,2	4,5	4,8	6,8	7,6	4,5	2,1
Inductance uH	12000	9290	12000,0	6740	7580	4510	12000	15900
Nema 1 Encl.Size	C1	C1	C1	C1	C1	C1	C1	C1
Motor Models Compatible	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	MPP-13	2	MPP-18	3	MPOP-21	5	MPP-3	1
FLA	2,4	FLA	3,4	FLA	5,0	FLA	1,44	
VFD Dimensions	Width (mm)	Width (in.)	Height (mm)	Height (in.)	Depth (mm)	Depth (in)	Wgt (Kg)	Wgt (lbs)
	130	5,1181	250	9,8425	170	6,6929	3,0	6,9615
Input Voltage	Input Voltage	Input Frequency	Input Phase	Enclosure	Control Method	V/Hz, Sensorless Vector, Closed Loop Vector, FOC (Field Oriented Control), Torque Control, PM Motor Control		
	470 ~ 600VAC (± 10%)	50/60Hz (±5%)	3	NEMA 1				
Regulated Output Voltage	Efficiency	Motor Current Protection Range	Stall Prevention Level HD	Stall Prevention Level ND	Stall Prevention Level LD	Carrier Frequency	Accel / Decel Time	Default Rating
0.0 ~ 600.0Vac	≥98%	0.52 ~ 5.16 A	0 ~ 180%	0 ~ 150%	0 ~ 120%	2 ~ 15kHz	0.0 ~ 6000 secs	Light Duty
Over Torque Level	DC Injection	Braking Chopper	Equivalent Braking Resistor Circuit	Minimum Braking Resistance Value	Starting Torque @			
10 ~ 250%	0 ~ 100.0 %	Built-in	200W 360Ω	186.7 Ω	V/Hz	SVC	VC+PG	
					0 ~ 250% @ 0.5Hz	0 ~ 250% @ 0.5Hz	0 ~ 250% @ 0.0Hz	
Analog Inputs			Analog Outputs			Keypad	Fault Record	Reel Time Stamp
AVI	ACI	AUI	AFM1	AFM2	DFM			
0 ~ 10vdc	0/4 ~ 20ma	-10 ~ +10vdc	0 ~ 10vdc / 0 ~20ma	0 ~ 10vdc / 0 ~20ma	Pulsed Frequency	Removable	20 last faults	Yes
Digital Inputs					Signal mode			
Dedicated		Safe Torque Off	Programmable	Control Voltage	Sink (NPN) / Source (PNP)			
Fwd, Rev, STO1, STO2		Yes	8	24vdc				
Digital Outputs				Built in Controllers				
DO1	DO2	DO3	DO4	Preset speeds	Process Control	PLC	PID	Position
1NO/NC Form C relay, ≤ 240VAC, ≤ 24vdc	1NO/NC Form C relay, ≤ 240VAC, ≤ 24vdc	Optocoupler NPN ≤ 48vdc	Optocoupler NPN ≤ 48vdc	15	Thru PLC	10K Steps	Yes	Yes
Communication				Built In Protocol 1	Built In Protocol 2	Built In Protocol 3		
Comm Port 1	Comm Port 2	Comm port 3	Comm port 4	Modbus ACSII	Modbus RTU	-		
RJ45 (RS-485)	RJ45 (RS-485)	-SG, +SG (RS-485)	-					
Options								
Option 1	KPC-CC01	Standard keypad shipped with C2000 series. Also compatible, MS-300 & MH-300.						
Option 2	MKC-KPPK	VFD-C2000, Keypad Remote Panel Adapter, IP66						
Option 3	KPC-CE01	VFD-C2000, LED English Keypad for C2000						
Option 4	CMC-EC01	VFD-C2000, EtherCAT Communication card, supports EtherCAT protocol						
Option 5	CMC-EIP01	VFD-C2000, Ethernet Communication card, supports EtherNet/IP protocol						
Option 6	CMC-MOD01	VFD-C2000, Ethernet communication card, supports MODBUS TCP protocol						
Option 7	CMC-DN01	VFD-C2000, DeviceNet communication card, 125kbps / 250kbps / 500kbps						
Option 8	CMC-PD01	VFD-C2000, PROFIBUS-DP communication card, 9.6kbps-12Mbps						
Option 9	EMC-COP01	VFD-C2000, CANopen communication card, 50kbps - 1Mbps						
Option 10	EMC-D42A	VFD-C2000, IO Extension card, (4DI/2DO), DC 24V						
Option 11	EMC-D611A	VFD-C2000, 6DI extension card, AC 110V power						
Option 12	EMC-BPS01	VFD-C2000, 24VDC External Power Supply Card						
Option 13	EMC-PG01L	VFD-C2000, Encoder Interface card, 5 VDC to encoder, Line-drive 300k pulse/sec. 5VDC 50mA pulse output						
Option 14	EMC-PG01O	VFD-C2000, Encoder Interface card, 5 or 12 VDC to encoder, Open-collect 300k pulse/sec. pulse output						
Option 15	EMC-PG01R	VFD-C2000, Resolver Feedback Card; VFD-C, CP						
Option 16	EMC-PG01U	VFD-C2000, Encoder Interface card, 5 VDC to encoder, Line-drive (A,B,Z,U,V,W) . 5VDC 50mA pulse output						
Option 17	EMC-R6AA	VFD-C2000, IO Extension card (6 output relays)						
Option 18	-	-						