



Model #: VFD450CP43S-21

Date: 2020-04-14

Description								
VFD-CP2000, 50/60HP, 37/45Kw, (ND 73/LD 91A), 3 Ø 460VAC, 400.00Hz, (V/Hz, SVC, PM, STO), Pump & Fan Macro, c/w EMI Filter, PLC & BACnet, NEMA 1, Frame D0								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		Light Duty Output Rating		Single Phase Duty Rating	
Delta Electronics	HD Input Amps Rating	-	ND Input Amps Rating	89,4	LD Input Amps Rating	111,4	1 Ø Input Amps Rating	89,4
	Rated HP	Rated Amps	HP	Rated Amps	HP	Rated Amps	HP	Amps
	-	-	50,0	73,0	60,0	91,0	25,0	36,5
	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps
Max. Capacity	-	-	60,0	87,6	75,0	109,2	25,0	36,5
Line Reactor	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Line	Load	Line	Load	Line	Load	Line	Load
Model	-	-	KDRF1H	KDRF2L	KDRF2H	KDRF4L	KDRF1H	KDRD1L
HP Rating	0,0	-	50,0	50,00	60,00	60,00	50,00	25,00
Max Amps	-	-	85,0	65,0	77,0	77,0	85,0	50,0
Inductance uH	-	-	465,0	295	408	227	465	569
Nema 1 Encl.Size	-	-	C3	C3	C3	C3	C3	C2
Motor Models Compatible	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	-	-	MQP-68	60	MQOP-73	75	MQOP-53	30
	FLA	-	FLA	70,0	FLA	87,0	FLA	38
VFD Dimensions	Width (mm)	Width (in.)	Height (mm)	Height (in.)	Depth (mm)	Depth (in)	Wgt (Kg)	Wgt (lbs)
	280	11,0236	614,4	24,188928	255	10,03935	27,0	62,6535
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		
340 ~ 480VAC (± 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 ~ 510.0Vac	≥97%	10.92 ~ 109.2 A	-	0 ~ 160%	0 ~ 130%	2 ~ 10kHz	0.0 ~ 6000 secs	Light Duty
Over Torque Level	DC Injection	Braking Chopper	Equivalent Braking Resistor Circuit	Minimum Braking Resistance Value	Starting Torque @			
10 ~ 200%	0 ~ 100.0 %	1 X VFD4045	4800W 15Ω	12.7 Ω	V/Hz	SVC	VC+PG	
					0 ~ 150% @ 0.5Hz	0 ~ 150% @ 0.5Hz		
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	-
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	BACnet		
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	-	-						
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-R6AA	VFD-C2000, IO Extension card (6 output relays)						
Option 14	-	-						
Option 15	-	-						
Option 16	-	-						
Option 17	-	-						
Option 18	-	-						