



Model #: VFD450C23A

Date: 2020-04-13

Description								
VFD-C2000, 60/75HP, 45/55Kw, (HD 162/LD 216A), 3 Ø 230VAC, 599.0Hz, (V/Hz, VC+PG, SVC, FOC, TQC & PM), c/w PLC, IP20, Frame E								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		Light Duty Output Rating		Single Phase Duty Rating	
Delta Electronics	HD Input Amps Rating	165,3	ND Input Amps Rating	220,4	LD Input Amps Rating	-	1 Ø Input Amps Rating	165,3
	Rated HP	Rated Amps	HP	Rated Amps	HP	Rated Amps	HP	Amps
	60,0	171,0	75,0	180,0	-	-	30,0	85,5
	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps
Max. Capacity	60,0	205,2	75,0	216,0	-	-	30,0	85,5
Line Reactor	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Line	Load	Line	Load	Line	Load	Line	Load
Model	KDRH23H	KDRH22L	KDRI22H	KDRI23L	-	-	KDRH23H	KDRF24L
HP Rating	60,0	60,00	75,0	75,00	0,00	-	60,00	30,00
Max Amps	169,0	180,0	220,0	211,0	-	-	169,0	100,0
Inductance uH	103	62,4	85,4	48,7	-	-	103	116
Nema 1 Encl.Size	C4	C4	C4	C4	-	-	C4	C4
Motor Models Compatible	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	MQP-68	60	MQP-73	75	-	-	MQP-58	40
	FLA	140	FLA	174,0	FLA	-	FLA	100
VFD Dimensions	Width (mm)	Width (in.)	Height (mm)	Height (in.)	Depth (mm)	Depth (in)	Wgt (Kg)	Wgt (lbs)
	370	14,5669	589	23,18893	300	11,811	64,8	150,3684
Regulated Output 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		
	180 ~ 240VAC (± 10%)	50/60Hz (±5%)	3	NEMA 1 Optional				
Over Torque Level	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 ~ 255.0Vac	≥98%	21.6 ~216.0 A	0 ~ 180%	0 ~ 160%	0 ~ 120%	2 ~ 9kHz	0.0 ~ 6000 secs
Analog Inputs	DC Injection	Braking Chopper	Equivalent Braking Resistor Circuit	Minimum Braking Resistance Value	Starting Torque @			
	10 ~ 250%	0 ~ 100.0 %	2 X VFD2022	6000W 3.3Ω	3.2 Ω	0 ~ 250% @ 0.5Hz	0 ~ 250% @ 0.5Hz	0 ~ 250% @ 0.0Hz
AVI	ACI	AUI	AFM1	AFM2	DFM	Keypad	Fault Record	Reel Time Stamp
0 ~ 10vdc	0/4 ~ 20ma	-10 ~ +10vdc	0 ~ 10vdc / 0 ~20ma	0 ~ 10vdc / 0 ~20ma	Pulsed Frequency			
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	MKC-EN1CB	VFD-C2000, Conduit Box Kit, Frame E, NEMA 1						