



VFD4A8MS21AFSAA



Model #:

Description								
(MS300) 1HP (HD 4.5A) / 1.5HP (ND 6.0A), 1 Ø 230VAC, 0-599.0Hz (op), (V/Hz, SVC, PM), c/w EMI filter, IP20 Frame B3								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		-		Single Phase Duty Rating	
Delta Electronics	Input Amps Rating	-	Input Amps Rating	-	Input Amps Rating	-	1 Ø Input Amps Rating	10,1
	Rated HP	Rated Amps	HP	Rated Amps	HP	Rated Amps	HP	Amps
	-	-	-	-	-	-	1,0	6,0
Max. Capacity	-	-	-	-	-	-	1,0	6,0
Line Reactor	Heavy Duty		-		-		1 Ø Phase	
	Line	Load	Line	Load	Line	Load	Line	Load
Model	-	KDRMA24L1	-	KDRMA25L1	-	-	KDRAA28H2	KDRMA24L1
HP Rating	-	1,00	-	1,50	-	-	3,00	1,00
Max Amps	-	5,5	-	8,0	-	-	11,0	5,5
Inductance uH	-	2460	-	1650	-	-	1570	2460
Nema 1 Encl.Size	-	C1	-	C1	-	-	C1	C1
Motor Models Compatible	Heavy Duty		-		-		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	MQP-2	1	MQP-11	2	-	-	MQP-2	1
	FLA	3	FLA	5,3	FLA	-	FLA	3
VFD Dimensions	Width (mm)	Width (in.)	Height (mm)	Height (in.)	Depth (mm)	Depth (in)	Wgt (Kg)	Wgt (lbs)
	72	2,83464	142	5,59054	159	6,25983	1,3	3,06306
Input Voltage	Input Frequency	Input Phase	Enclosure		Control Method	V/Hz, Sensorless Vector, PM Motor Control		
200 ~ 240VAC (± 10%)	50/60Hz (±5%)	1	NEMA1 Optional					
Regulated Output Voltage	Efficiency	Motor Current Protection Range	Stall Prevention Level SHD / HD	Stall Prevention Level ND	Stall Prevention Level LD	Carrier Frequency	Accel / Decel Time	Default Rating
0.0 ~ 255Vac	≥97%	0.48 ~ 6.00 A	0 ~ 200%	0 ~ 150%	-	2 ~ 15kHz	0.00 ~ 600.00	Heavy 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	80W 200Ω	63.3 Ω	V/Hz	SVC	VC+PG	
					10 ~ 200% @ 3Hz	10 ~ 200% @ 0.3Hz		
Analog Inputs			Analog Outputs			Keypad	Fault Record	Reel Time Stamp
AVI	ACI	AUI	AFM1	AFM2	DFM			
0 ~ 10vdc or -10 ~ +10vdc	0/4 ~ 20ma or 0 ~ 10vdc	-	0/4 ~ 20ma or 0 ~ 10vdc	-	-	Removable	10 last faults	Thru PLC
Digital Inputs				Signal mode				
Dedicated	Safe Torque Off	Programmable	Control Voltage					
STO1, STO2	Yes	7	24vdc	Sink (NPN) / Source (PNP)				
Digital Outputs				Built in Controllers				
DO1	DO2	DO3	DO4	Preset speeds	Process Control	PLC	PID	Position
1NO/NC Form C relay, ≤ 240VAC, ≤ 24vdc	Optocoupler NPN ≤ 48vdc	Optocoupler NPN ≤ 48vdc	-	15	No	2K Steps	Yes	No
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					
USB type B	RJ45 (RS-485) / SG+, SG-	-	-	Modbus ACSII	Modbus RTU	-		
Options								
Option 1	KPC-CC01	(C2000+ / CP2000, MS300) Standard keypad shipped with C2000 / CP2000 series. Also compatible, MS-300.						
Option 2	MKC-KPPK	(C2000+ / CP2000), Keypad Remote Panel Adapter, IP66						
Option 3	MKM-EPB	MS300), EMC Shielded Cable Earthing Plate, Frame B						
Option 4	KPC-CE01	(C2000+ / CP2000), LED English Keypad for C2000						
Option 5	MKM-CBB	(MS300), NEMA1 conduit box kit, frame B						
Option 6	CMM-COP01	VFD-MH/MS300, CANopen Communication Card						
Option 7	CMM-DN01	VFD-MH/MS300, DeviceNet Communication Card						
Option 8	CMM-EIP01	VFD-MH/MS300, EtherNet/IP Communication Card						
Option 9	CMM-EC02	VFD-MS/MH300, EtherCAT Communication Card						
Option 10	CMM-MOD01	VFD-MH/MS300, Modbus TCP Communication Card						
Option 11	CMM-PD01	VFD-MH/MS300, Profibus DP Communication Card						
Option 12	EMM-BPS01	VFD-MH/MS300, Back-up Power Supply card						
Option 13	MKM-DRB	(MS300), DIN Rail Kit, Frame A or B						
Option 14	EG1010A	1 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 15	EG2010A	2 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 16	EG3010A	3 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 17	EG5010A	5 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 18	CBM-CL01A	MS/MH300 Communication Card Connection Cable for CMM-xxx02						