



VFD4A2MS43MNSAA

Model #:

Description								
(MS300) 2HP (HD 4.14A) / 3HP (ND 5.52A), 3 Ø 460VAC, 0-599.0Hz (op), (V/Hz, SVC, PM), IP66, Frame A2								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		-		Single Phase Duty Rating	
Delta Electronics	Input Amps Rating	5,8	Input Amps Rating	6,4	Input Amps Rating	-	1 Ø Input Amps Rating	6,4
	Rated HP	Rated Amps	HP	Rated Amps	HP	Rated Amps	HP	Amps
	2,0	4,2	2,0	4,2	2,0	4,6	1,0	2,1
	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps
Max. Capacity	2,0	5,0	2,0	5,0	3,0	5,5	1,0	2,1
Line Reactor	Heavy Duty		-		-		1 Ø Phase	
	Line	Load	Line	Load	Line	Load	Line	Load
Model	KDRAA1H2	KDRMA7L1	KDRAA2H2	KDRMA8L1	-	-	KDRAA1H2	KDRMA5L1
HP Rating	2,0	2,00	3,0	3,00	-	-	2,00	1,00
Max Amps	3,8	4,2	5,4	5,0	-	-	3,8	2,3
Inductance uH	10300	5790	7290,0	4270	-	-	10300	8927
Nema 1 Encl.Size	C1	C1	C1	C1	-	-	C1	C1
Motor Models Compatible	Heavy Duty		-		-		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	MQP-12	2	MQP-18	3	-	-	MQP-3	1
	FLA	3,1	FLA	4,2	FLA	-	FLA	1,8
VFD Dimensions	Width (mm)	Width (in.)	Height (mm)	Height (in.)	Depth (mm)	Depth (in)	Wgt (Kg)	Wgt (lbs)
	160	6,2992	230	9,0551	160	6,2992	1,1	2,436525
Input Voltage	Input Frequency	Input Phase	Enclosure		Control Method	V/Hz, Sensorless Vector, PM Motor Control		
380 ~ 480VAC (± 10%)	50/60Hz (±5%)	3	NEMA 4X / IP66					
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 ~ 510Vac	≥97%	0.42 ~ 5.52 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	200W 360Ω	127 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	-	-	Not 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	Modbus ACSII	Modbus RTU	-		
USB type B	RJ45 (RS-485) / SG+, SG-	-	-					
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	-							
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	-							
Option 14	-							
Option 15	-							
Option 16	-							
Option 17	-							
Option 18	CBM-CL01A	MS/MH300 Communication Card Connection Cable for CMM-xxx02						