



Model #: **VFD4A2MS43AFSAA**

Date: 2020-04-15

Description								
VFD-MS300, 2/3HP, 1.5/2.2kw, (HD 4.142/LD 5.52A), 3 Ø 460VAC, 599.0Hz, (V/Hz, SVC, PM), c/w EMI filter, IP20, Frame B3								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		Light Duty Output Rating		Single Phase Duty Rating	
Delta Electronics	HD Input Amps Rating	5,8	ND Input Amps Rating	6,4	LD 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	4,6	-	-	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	3,0	5,5	-	-	1,0	2,1
Line Reactor	Heavy Duty		Normal Duty		Light 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	0,00	-	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		Normal Duty		Light Duty		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	MQP-12	2	MQP-18	3	-	-	MQP-2	1
	FLA	3,1	FLA	4,2	FLA	-	FLA	1,5
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		
380 ~ 480VAC (± 10%)	50/60Hz (±5%)	3	NEMA1 Optional					
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%	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 %	Builtin	200W 360Ω	127 Ω	V/Hz	SVC	VC+PG	
					10 ~ 200% @ 3.0Hz	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	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	MKM-EPB	VFD-MH/MS300, EMC Shielded Cable Earthing Plate, Frame B						
Option 4	-							
Option 5	KPC-CE01	VFD-C2000, LED English Keypad for C2000						
Option 6	MKM-CBB	VFD-MH/MS300, NEMA1 conduit box frame B						
Option 7	CMM-COP01	VFD-MH/MS300, CANopen Communication Card						
Option 8	CMM-DN01	VFD-MH/MS300, DeviceNet Communication Card						
Option 9	CMM-EIP01	VFD-MH/MS300, EtherNet/IP Communication Card						
Option 10	CMM-EC01	VFD-MH300, EtherCAT Communication Card						
Option 11	CMM-MOD01	VFD-MH/MS300, Modbus TCP Communication Card						
Option 12	CMM-PD01	VFD-MH/MS300, Profibus DP Communication Card						
Option 13	EMM-BPS01	VFD-MH/MS300, Back-up Power Supply card						
Option 14	MKM-DRB	VFD-MH/MS300, DIN Rail Kit, Frame A or B						
Option 15	EG1010A	1 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 16	EG2010A	2 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 17	EG3010A	3 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 18	EG5010A	5 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						