



VFD49AMS23ANSAA



Model #:

Description								
(MS300) 15HP (HD 45.9A) / 20HP (ND 61.2A), 3 Ø 230VAC, 0-599.0Hz (op), (V/Hz, SVC, PM), IP20, Frame E1								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		-		Single Phase Duty Rating	
Delta Electronics	Input Amps Rating	58,8	Input Amps Rating	61,2	Input Amps Rating	-	1 Ø Input Amps Rating	61,2
	Rated HP	Rated Amps	HP	Rated Amps	HP	Rated Amps	HP	Amps
	15,0	49,0	15,0	49,0	15,0	51,0	7,5	24,5
	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps
Max. Capacity	20,0	58,8	20,0	58,8	20,0	61,2	7,5	24,5
Line Reactor	Heavy Duty		-		-		1 Ø Phase	
	Line	Load	Line	Load	Line	Load	Line	Load
Model	KDRD22H	KDRD24L	KDRC22H	KDRD26L	-	-	KDRD22H	KDRB23L
HP Rating	15,0	15,00	20,0	20,00	-	-	15,00	7,50
Max Amps	47,0	48,0	62,0	62,0	-	-	47,0	25,0
Inductance uH	375	220	278,0	172	-	-	375	434
Nema 1 Encl.Size	C2	C2	C2	C2	-	-	C2	C2
Motor Models Compatible	Heavy Duty		-		-		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	MQP-37	15	MQP-43	20	-	-	MQP-28	7,5
	FLA	36,4	FLA	50,0	FLA	-	FLA	19,6
VFD Dimensions	Width (mm)	Width (in.)	Height (mm)	Height (in.)	Depth (mm)	Depth (in)	Wgt (Kg)	Wgt (lbs)
	130	5,1181	250	9,8425	185	7,28345	4,0	9,212385
Input Voltage	Input Frequency	Input Phase	Enclosure		Control Method	V/Hz, Sensorless Vector, PM Motor Control		
200 ~ 240VAC (± 10%)	50/60Hz (±5%)	3	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%	4.90 ~ 61.20 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	1500W 13Ω	12.6 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	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-EPE	(MS300), EMC Shieled Cable Earthing Plate, Frame E						
Option 4	KPC-CE01	(C2000+ / CP2000), LED English Keypad for C2000						
Option 5	MKM-CBE	(MS300), NEMA1 conduit box kit, frame E						
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	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-CL02A	MS/MH300 Communication Card Connection Cable for CMM-xxx02						