



Model #: VFD110E23A

Date: 2020-04-14

Description								
VFD-E, 15/20HP, 11/15Kw, CT/VT, 45/54A, 3 Ø 230VAC, 599.00Hz, (V/Hz, SVC, VC+PG), c/w EMI Filter & PLC, IP20, Frame C								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		Light Duty Output Rating		Single Phase Duty Rating	
Delta Electronics	HD Input Amps Rating	48,0	ND Input Amps Rating	-	LD Input Amps Rating	57,6	1 Ø Input Amps Rating	48,0
	Rated HP	Rated Amps	HP	Rated Amps	HP	Rated Amps	HP	Amps
	15,0	45,0	-	-	-	-	10,0	22,5
Max. Capacity	20,0	54,0	-	-	20,0	54,0	10,0	22,5
Line Reactor	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Line	Load	Line	Load	Line	Load	Line	Load
Model	KDRD22H	KDRD24L	-	-	KDRD22H	KDRD26L	KDRD22H	KDRD25L
HP Rating	15,0	15,00	0,0	-	20,00	20,00	15,00	10,00
Max Amps	47,0	48,0	-	-	62,0	62,0	47,0	34,0
Inductance uH	375	220	-	-	278	172	375	342
Nema 1 Encl.Size	C2	C2	-	-	C2	C2	C2	C2
Motor Models Compatible	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	MQP-37	15	-	-	MQP-43	20	MQP-27	7,5
	FLA	36,4	FLA	-	FLA	50,0	FLA	18,4
VFD Dimensions	Width (mm)	Width (in.)	Height (mm)	Height (in.)	Depth (mm)	Depth (in)	Wgt (Kg)	Wgt (lbs)
	130	5,1181	260	10,2362	169,2	6,661404	3,6	8,284185
Input Voltage	Input Voltage	Input Frequency	Input Phase	Enclosure	Control Method	V/Hz, Sensorless Vector, Closed Loop Vector		
	200 ~ 240VAC (± 10%)	50/60Hz (±5%)	3	IP20				
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 ~ 255.0Vac	≥97%	13.5 ~ 54.0 A	20 ~ 250%	-	-	1 ~ 15kHz	0.10 ~ 600.0 secs	Heavy Duty
Over Torque Level	DC Injection	Braking Chopper	Equivalent Braking Resistor Circuit	Minimum Braking Resistance Value	Starting Torque @			
10 ~ 200%	0 ~ 100.0 %	Built-in	1500W 13Ω	11.5 Ω	V/Hz	SVC	VC+PG	
					10 ~ 200% @ 1.5Hz	10 ~ 200% @ 0.5Hz	10 ~ 200% @ 0.2Hz	
Analog Inputs			Analog Outputs			Keypad	Fault Record	Reel Time Stamp
AVI	ACI	AUI	AFM1	AFM2	DFM			
0 ~ 10vdc	0 ~ 10vdc or 0/4 ~ 20ma	Optional	0 ~ 10vdc	Optional	Optional	Optional	5 last faults	Thru PLC
Digital Inputs					Signal mode			
Dedicated		Safe Torque Off	Programmable	Control Voltage	Sink (NPN) / Source (PNP)			
-		No	6	24vdc				
Digital Outputs				Built in Controllers				
DO1	DO2	DO3	DO4	Preset speeds	Process Control	PLC	PID	Position
1NO/NC Form C relay, ≤ 240VAC, ≤ 24vdc	Optional	Optocoupler NPN ≤ 48vdc	Optional	15	Thru PLC	5K 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					
RJ45 (RS-485)	-	-	-	Modbus ACSII	Modbus RTU	-		
Options								
Option 1	KPE-LE02	VFD-E series Keypad, sold separately						
Option 2	VFD-PU06	Upload / Download Keypad, Compatible with all Delta Series except, V, VE,MS/MH300, C2000 series, RJ11 Comm port connectable						
Option 3	0	0						
Option 4	-	-						
Option 5	CME-DN01	VFD-E, DeviceNet Communication module						
Option 6	CME-LW01	VFD-E, LonsWork Communication module						
Option 7	CME-PD01	VFD-E, ProfiBus Communication module						
Option 8	CME-COP01	VFD-E, CANopen Communication module						
Option 9	CME-USB01	VFD-E, USB - PC Communication module						
Option 10	EME-D33A	VFD-E, I/O Extension card (3DI/3DO)						
Option 11	EME-R2CA	VFD-E, I/O Extension card (2 Form C relays)						
Option 12	EME-R3AA	VFD-E, I/O Extension card (3 Form A relays)						
Option 13	EME-PG01	VFD-E, Encoder Interface Card						
Option 14	EME-A22A	VFD-E, I/O Extension card (2AI/2AO)						
Option 15	MKE-EP	VFD-E, EMI Mounting Plate						
Option 16	MKE-HUB01	VFD-E, Dasiy Chain t-connector						
Option 17	MKE-EP	VFD-E, EMI Mounting Plate						
Option 18	-	-						