



Model #: VFD220B53A

Date: 2020-04-13

Description								
VFD-B, 30/40HP, 22/30Kw, CT/VT, 34/42.5A, 3 Ø 575VAC, 2000Hz, (V/Hz, SVC, VC+PG), NEMA 1, Frame D								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		Light Duty Output Rating		Single Phase Duty Rating	
Delta Electronics	HD Input Amps Rating	35,1	ND Input Amps Rating	-	LD Input Amps Rating	42,1	1 Ø Input Amps Rating	35,1
	Rated HP	Rated Amps	HP	Rated Amps	HP	Rated Amps	HP	Amps
	30,0	34,0	-	-	-	-	15,0	17,0
	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps	Max. HP	Max. Amps
Max. Capacity	40,0	40,8	-	-	40,0	40,8	15,0	17,0
Line Reactor	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Line	Load	Line	Load	Line	Load	Line	Load
Model	KDRE42H	KDRD42L	-	-	KDRF44H	KDRC43L	KDRE42H	KDRB45L
HP Rating	30,0	30,00	-	-	40,00	40,00	30,00	15,00
Max Amps	32,0	32,0	-	-	44,0	41,0	32,0	19,5
Inductance uH	1430	853	-	-	1090	672	1430	1590
Nema 1 Encl.Size	C2	C2	-	-	C3	C2	C2	C1
Motor Models Compatible	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	MPP-58	40	-	-	MPP-58	40	MPP-43	20
	FLA	40	FLA	-	FLA	40,0	FLA	18,5
VFD Dimensions	Width (mm)	Width (in.)	Height (mm)	Height (in.)	Depth (mm)	Depth (in)	Wgt (Kg)	Wgt (lbs)
	250	9,8425	403,8	15,897606	205,4	8,086598	13,0	30,1665
Input Voltage	Input Frequency	Input Phase	Enclosure		Control Method	V/Hz, Sensorless Vector, Closed Loop Vector		
480 ~ 600VAC (± 10%)	50/60Hz (±5%)	3	NEMA 1					
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
0.1 ~ 637.0Vac	≥97%	10.2 ~ 40.8 A	20 ~ 250%	-	-	1 ~ 8kHz	0.1 ~ 3600 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 %	VFDB5055	6000W 40Ω	40 Ω	V/Hz	SVC	VC+PG	
					10 ~ 200% @ 1.0Hz	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	0/4 ~ 20ma	-10 ~ +10vdc	0 ~ 10vdc	-	Pulsed Frequency	Removable	4 last faults	No
Digital Inputs					Signal mode			
Dedicated		Safe Torque Off	Programmable	Control Voltage				
Fwd, Rev, External Fault, Jog, Trg		No	6	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	Optocoupler NPN ≤ 48vdc	15	15 Steps	No	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					
RJ-11 (RS-485)	-	-	-	Modbus ACSII	Modbus RTU	-		
Options								
Option 1	VFD-PU06	Upload / Download Keypad, Compatible with all Delta Series except, V, VE,MS/MH300, C2000 series, RJ11 Comm port connectable						
Option 2	RPA-01	Recessed Keypad Holder for remote location mounting of VFD-B Standard keypad (VFD-PU01)						
Option 3	VFD-PU01	VFD-B Standard Removable Keypad, Shipped with every B Series drive, NEMA 12						
Option 4	-	-						
Option 5	PG-02	VFD-B, V & VE Encoder Input Card, 12/5vdc output, Compatible with Output Voltage, Open Collector, Line Driver & Complementary Encoders						
Option 6	PG-03	VFD-B Encoder Input Card, 12vdc output, Compatible with Output Voltage, Open Collector, Line Driver & Complementary Encoders						
Option 7	RC-01	Remote Station, NEMA 1, Rev/Fwd, Run/Stop, Jog/Reset, Potentiometer, & Analog Frequency Display, compatible with all VFD series						
Option 8	DN-02	DeviceNet Communication module, compatible with VFD-B, M, & S series						
Option 9	PD-01	ProfiBus Communication module, compatible with VFD-B, M, & S series						
Option 10	LN-01	LonWorks Communication module, compatible with VFD-B, M, & S series						
Option 11	EG1010A	1 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 12	EG2010A	2 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 13	EG3010A	3 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 14	EG5010A	5 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads						
Option 15	-	-						
Option 16	-	-						
Option 17	-	-						
Option 18	-	-						