Model #: VFD185B53A

Date: 2020-04-13

Description

VFD-B, 25/30HP, 18.5/22Kw, CT/VT, 27/33.7A, 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	27,8	ND Input Amps Rating	-	LD Input Amps Rating	33,4	1 Ø Input Amps Rating	27,8
	Rated HP	**Rated Amps**	**HP**	**Rated Amps**	**HP**	**Rated Amps**	**HP**	**Amps**
	25,0	27,0	-	-	-	-	12,5	13,5
	Max. HP	**Max. Amps**	**Max. HP**	**Max. Amps**	**Max. HP**	**Max. Amps**	**Max. HP**	**Max. Amps**
Max. Capacity	30,0	32,4	-	-	30,0	32,4	12,5	13,5
Line Reactor	**Heavy Duty**		**Normal Duty**		**Light Duty**		**1 Ø Phase**	
	Line	**Load**	**Line**	**Load**	**Line**	**Load**	**Line**	**Load**
Model	KDRC43H	KDRB43L	-	-	KDRE42H	KDRD42L	KDRC43H	KDRAA49L2
HP Rating	25,0	25,00	-	-	30,00	30,00	25,00	10,00
Max Amps	30,0	30,0	-	-	32,0	32,0	30,0	11,0
Inductance uH	1670	883	-	-	1430	853	1670	2470
Nema 1 Encl.Size	C2	C1	-	-	C2	C2	C2	C1
Motor Models Compatible	**Heavy Duty**		**Normal Duty**		**Light Duty**		**1 Ø Phase**	
	Model	HP	Model	HP	Model	HP	Model	HP
	MPP-53	30	-	-	MPP-53	30	MPP-38	15
	FLA	28,7	FLA	-	FLA	28,7	FLA	15,2
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%	8.1 ~ 32.4 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 @**			
					V/Hz	**SVC**	**VC+PG**	
10 ~ 200%	0 ~ 100.0 %	VFDB5055	4000W 50Ω	50 Ω	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	-	-