



Model #:

VFD022B21A

Date: 2020-04-13

Description								
VFD-B, 3/5HP, 2.2/3.7Kw, CT/VT, 11/13A, 1/3 Ø 230VAC, 2000Hz, (V/Hz, SVC, VC+PG), NEMA 1, Frame B								
Manufacturer	Heavy Duty Output Rating		Normal Duty Output Rating		Light Duty Output Rating		Single Phase Duty Rating	
Delta Electronics	HD Input Amps Rating	11,3	ND Input Amps Rating	-	LD Input Amps Rating	13,6	1 Ø Input Amps Rating	22,0
	Rated HP	Rated Amps	HP	Rated Amps	HP	Rated Amps	HP	Amps
	3,0	11,0	-	-	-	-	5,0	13,2
Max. Capacity	5,0	13,2	-	-	5,0	13,2	5,0	13,2
Line Reactor	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Line	Load	Line	Load	Line	Load	Line	Load
Model	KDRAA28H2	KDRAA28L2	-	-	KDRB25H	KDRB22L	KDRD21H	KDRB22L
HP Rating	3,0	3,00	-	-	5,00	5,00	10,00	5,00
Max Amps	11,0	11,0	-	-	17,0	19,0	31,0	19,0
Inductance uH	1570	971	-	-	1030	626	554	626
Nema 1 Encl.Size	C1	C1	-	-	C1	C1	C2	C1
Motor Models Compatible	Heavy Duty		Normal Duty		Light Duty		1 Ø Phase	
	Model	HP	Model	HP	Model	HP	Model	HP
	MQP-21	5	-	-	MQP-23	5	MQP-22	5
	FLA	11,6	FLA	-	FLA	14,2	FLA	13,6
VFD Dimensions	Width (mm)	Width (in.)	Height (mm)	Height (in.)	Depth (mm)	Depth (in)	Wgt (Kg)	Wgt (lbs)
	150	5,9055	260	10,2362	160	6,2992	4,5	10,44225
	Input Voltage	Input Frequency	Input Phase	Enclosure	Control Method	V/Hz, Sensorless Vector, Closed Loop Vector		
	200 ~ 240VAC (± 10%)	50/60Hz (±5%)	1 / 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 ~ 255.0Vac	≥97%	1.5 ~ 13.2A	20 ~ 250%	-	-	1 ~ 15kHz	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 %	Built-in	300W 100Ω	82 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	-	-						