



VFD185B43A

Model #:

| Description | | | | | | | | |
|--|--------------------------|---|-------------------------------------|----------------------------------|---|---------------------|--------------------------|-----------------|
| (B Series) 25HP 18.5kW (CT 38A) / 30HP 22kW (VT 47A), 3 Ø 460VAC, 0-2000.00Hz (o/p), (V/Hz, SVC, VC+PG), NEMA 1, Frame D | | | | | | | | |
| Manufacturer | Heavy Duty Output Rating | | Light Duty Output Rating | | - | | Single Phase Duty Rating | |
| Delta Electronics | Input Amps Rating | 39,2 | Input Amps Rating | 47,0 | Input Amps Rating | - | 1 Ø Input Amps Rating | 39,2 |
| | Rated HP | Rated Amps | HP | Rated Amps | HP | Rated Amps | HP | Amps |
| | 25,0 | 38,0 | - | - | - | - | 12,5 | 19,0 |
| | Max. HP | Max. Amps | Max. HP | Max. Amps | Max. HP | Max. Amps | Max. HP | Max. Amps |
| Max. Capacity | 30,0 | 45,6 | 30,0 | 45,6 | - | - | 12,5 | 19,0 |
| Line Reactor | Heavy Duty | | Light Duty | | - | | 1 Ø Phase | |
| | Line | Load | Line | Load | Line | Load | Line | Load |
| Model | KDRC1H | KDRD1L | KDRE2H | KDRD2L | - | - | KDRC1H | KDRB2L |
| HP Rating | 25,0 | 25,00 | 30,0 | 30,00 | - | - | 25,00 | 15,00 |
| Max Amps | 35,0 | 50,0 | 45,0 | 45,0 | - | - | 35,0 | 30,0 |
| Inductance uH | 980 | 569 | 850,0 | 469 | - | - | 980 | 912 |
| Nema 1 Encl.Size | C2 | C2 | C2 | C2 | - | - | C2 | C1 |
| Motor Models Compatible | Heavy Duty | | Light Duty | | - | | 1 Ø Phase | |
| | Model | HP | Model | HP | Model | HP | Model | HP |
| | MQP-53 | 30 | MQP-53 | 30 | - | - | MQP-38 | 15 |
| | FLA | 35,9 | FLA | 35,9 | FLA | - | FLA | 19 |
| 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 | | | |
| 380 ~ 480VAC (± 10%) | 50/60Hz (±5%) | 3 | NEMA 1 | | | | | |
| 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 |
| 0.1 ~ 510Vac | ≥97% | 11.4 ~ 45.6 A | 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 % | VFDB4030 | 4800W 32Ω | 32 Ω | V/Hz | SVC | VC+PG | |
| | | | | | 10 ~ 200% @ 1Hz | 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 | Sink (NPN) / Source (PNP) | | | |
| Fwd, Rev, External Fault, Jog, Trg | | 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 | 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 | Modbus ACSII | Modbus RTU | - | | |
| RJ-11 (RS-485) | - | - | - | | | | | |
| Options | | | | | | | | |
| Option 1 | VFD-PU06 | Upload / Download Keypad, Compatible with all Delta Series except, V, VE,MS300, C2000, CP2000 series, RJ11 Comm port connectable | | | | | | |
| Option 2 | RPA-01 | (B Series) Recessed Keypad Holder for remote location mounting of B Series Standard keypad (VFD-PU01) | | | | | | |
| Option 3 | VFD-PU01 | (B Series) Standard Removable Keypad, Shipped with every B Series drive, NEMA 12 | | | | | | |
| Option 4 | PG-02 | (B Series), V & VE Encoder Input Card, 12/5vdc output, Compatible with Output Voltage, Open Collector, Line Driver & Complementary Encoders | | | | | | |
| Option 5 | PG-03 | (B Series) Encoder Input Card, 12vdc output, Compatible with Output Voltage, Open Collector, Line Driver & Complementary Encoders | | | | | | |
| Option 6 | RC-01 | Remote Station, NEMA 1, Rev/Fwd, Run/Stop, Jog/Reset, Potentiometer, & Analog Frequency Display, compatible with all VFD series | | | | | | |
| Option 7 | DN-02 | (B, M, & S Series) DeviceNet Communication module | | | | | | |
| Option 8 | PD-01 | (B, M, & S Series) Profibus Communication module | | | | | | |
| Option 9 | LN-01 | (B, M, & S Series) LonWorks Communication module | | | | | | |
| Option 10 | EG1010A | 1 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, & MS-300 series removable Keypads | | | | | | |
| Option 11 | EG2010A | 2 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, & MS-300 series removable Keypads | | | | | | |
| Option 12 | EG3010A | 3 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, & MS-300 series removable Keypads | | | | | | |
| Option 13 | EG5010A | 5 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, & MS-300 series removable Keypads | | | | | | |
| Option 14 | - | - | | | | | | |
| Option 15 | - | - | | | | | | |
| Option 16 | - | - | | | | | | |
| Option 17 | - | - | | | | | | |
| Option 18 | - | - | | | | | | |