



Model #: **VFD2500C63B-00**

Date: 2020-04-14

| Description   |  |  |                                     |                                  |                           |   |                          |                  |
|---|--|--|-------------------------------------|----------------------------------|---------------------------|---|--------------------------|------------------|
| VFD-C2000, 215/300HP, 160.4/220Kw, (HD 198/LD 348A), 3 Ø 690VAC, 599.0Hz, (V/Hz, VC+PG, SVC, FOC, TQC & PM), c/w PLC, IP20, Frame G |  |  |                                     |                                  |                           |   |                          |                  |
| Manufacturer  | Heavy Duty Output Rating               |  | Normal Duty Output Rating           |                                  | Light Duty Output Rating  |   | Single Phase Duty Rating |                  |
| Delta Electronics   | HD Input Amps Rating                   | 220,4  | ND Input Amps Rating                | 269,4                            | LD Input Amps Rating      | 355,1   | 1 Ø Input Amps Rating    | 220,4            |
|   | Rated HP                               | Rated Amps   | HP                                  | Rated Amps                       | HP                        | Rated Amps  | HP                       | Amps             |
|   | 150,0                                  | 180,0  | 200,0                               | 220,0                            | 350,0                     | 290,0   | 75,0                     | 90,0             |
|   | Max. HP                                | Max. Amps  | Max. HP                             | Max. Amps                        | Max. HP                   | Max. Amps   | Max. HP                  | Max. Amps        |
| Max. Capacity   | 200,0                                  | 216,0  | 250,0                               | 264,0                            | 350,0                     | 348,0   | 75,0                     | 90,0             |
| Line Reactor  | Heavy Duty                             |  | Normal Duty                         |                                  | Light Duty                |   | 1 Ø Phase                |                  |
|   | Line                                   | Load   | Line                                | Load                             | Line                      | Load  | Line                     | Load             |
| Model   | KDRJ41H                                | KDRI42L  | KDRL46H                             | KDRG47L                          | KDRL48H                   | KDRJ45L   | KDRJ41H                  | KDRF45L          |
| HP Rating   | 200,0                                  | 200,00   | 250,0                               | 250,00                           | 350,00                    | 350,00  | 200,00                   | 100,00           |
| Max Amps  | 192,0                                  | 192,0  | 260,0                               | 242,0                            | 344,0                     | 336,0   | 192,0                    | 99,0             |
| Inductance uH   | 250                                    | 146  | 188,0                               | 108                              | 138                       | 88,9  | 250                      | 272              |
| Nema 1 Encl.Size  | C5                                     | C4   | C5                                  | C4                               | C5                        | C5  | C5                       | C4               |
| Motor Models Compatible   | Heavy Duty                             |  | Normal Duty                         |                                  | Light Duty                |   | 1 Ø Phase                |                  |
|   | Model                                  | HP   | Model                               | HP                               | Model                     | HP  | Model                    | HP               |
|   | MPP-98                                 | 200  | MPOP-102                            | 250                              | MPOP-111                  | 350   | MPP-78                   | 100              |
|   | FLA                                    | 184  | FLA                                 | 224,0                            | FLA                       | 299,0   | FLA                      | 96               |
| VFD Dimensions  | Width (mm)                             | Width (in.)  | Height (mm)                         | Height (in.)                     | Depth (mm)                | Depth (in)  | Wgt (Kg)                 | Wgt (lbs)        |
|   | 550                                    | 21,6535  | 1000                                | 39,37                            | 397                       | 15,62989  | 135,0                    | 313,2675         |
| Regulated Output Voltage  | Input Voltage                          | Input Frequency  | Input Phase                         | Enclosure                        | Control Method            | V/Hz, Sensorless Vector, Closed Loop Vector, FOC (Field Oriented Control), Torque Control, PM Motor Control |                          |                  |
|   | 470 ~ 690VAC (± 10%)                   | 50/60Hz (±5%)  | 3                                   | NEMA 1 Optional                  |                           |   |                          |                  |
| Over Torque Level   | 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 ~ 720.0Vac                         | ≥98%   | 34.8 ~ 348.0 A                      | 0 ~ 180%                         | 0 ~ 150%                  | 0 ~ 120%  | 2 ~ 9kHz                 | 0.0 ~ 6000 secs  |
| Analog Inputs   | DC Injection                           | Braking Chopper  | Equivalent Braking Resistor Circuit | Minimum Braking Resistance Value | Starting Torque @         |   |                          |                  |
|   | 10 ~ 250%                              | 0 ~ 100.0 %  | 2 X VFDB6110                        | 24000W 6.8Ω                      | 6.1 Ω                     | 0 ~ 250% @ 0.5Hz  | 0 ~ 250% @ 0.5Hz         | 0 ~ 250% @ 0.0Hz |
| AVI   | ACI                                    | AUI  | AFM1                                | AFM2                             | DFM                       | Keypad  | Fault Record             | Reel Time Stamp  |
| 0 ~ 10vdc   | 0/4 ~ 20ma                             | -10 ~ +10vdc   | 0 ~ 10vdc / 0 ~20ma                 | 0 ~ 10vdc / 0 ~20ma              | Pulsed Frequency          |   |                          |                  |
| Digital Inputs  |  |  |                                     |                                  | Signal mode               |   |                          |                  |
| Dedicated   |  | Safe Torque Off  | Programmable                        | Control Voltage                  | Sink (NPN) / Source (PNP) |   |                          |                  |
| Fwd, Rev, STO1, STO2  |  | Yes  | 8                                   | 24vdc                            |                           |   |                          |                  |
| Digital Outputs   |  |  |                                     | Built in Controllers             |                           |   |                          |                  |
| DO1   | DO2                                    | DO3  | DO4                                 | Preset speeds                    | Process Control           | PLC   | PID                      | Position         |
| 1NO/NC Form C relay, ≤ 240VAC, ≤ 24vdc  | 1NO/NC Form C relay, ≤ 240VAC, ≤ 24vdc | Optocoupler NPN ≤ 48vdc  | Optocoupler NPN ≤ 48vdc             | 15                               | Thru PLC                  | 10K Steps   | Yes                      | Yes              |
| 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                | -   |                          |                  |
| RJ45 (RS-485)   | RJ45 (RS-485)                          | -SG, +SG (RS-485)  | -                                   |                                  |                           |   |                          |                  |
| Options   |  |  |                                     |                                  |                           |   |                          |                  |
| Option 1  | KPC-CC01                               | Standard keypad shipped with C2000 series. Also compatible, MS-300 & MH-300.                           |                                     |                                  |                           |   |                          |                  |
| Option 2  | MKC-KPPK                               | VFD-C2000, Keypad Remote Panel Adapter, IP66   |                                     |                                  |                           |   |                          |                  |
| Option 3  | KPC-CE01                               | VFD-C2000, LED English Keypad for C2000  |                                     |                                  |                           |   |                          |                  |
| Option 4  | CMC-EC01                               | VFD-C2000, EtherCAT Communication card, supports EtherCAT protocol                                     |                                     |                                  |                           |   |                          |                  |
| Option 5  | CMC-EIP01                              | VFD-C2000, Ethernet Communication card, supports EtherNet/IP protocol                                  |                                     |                                  |                           |   |                          |                  |
| Option 6  | CMC-MOD01                              | VFD-C2000, Ethernet communication card, supports MODBUS TCP protocol                                   |                                     |                                  |                           |   |                          |                  |
| Option 7  | CMC-DN01                               | VFD-C2000, DeviceNet communication card, 125kbps / 250kbps / 500kbps                                   |                                     |                                  |                           |   |                          |                  |
| Option 8  | CMC-PD01                               | VFD-C2000, PROFIBUS-DP communication card, 9.6kbps-12Mbps  |                                     |                                  |                           |   |                          |                  |
| Option 9  | EMC-COP01                              | VFD-C2000, CANopen communication card, 50kbps - 1Mbps  |                                     |                                  |                           |   |                          |                  |
| Option 10   | EMC-D42A                               | VFD-C2000, IO Extension card, (4DI/2DO), DC 24V  |                                     |                                  |                           |   |                          |                  |
| Option 11   | EMC-D611A                              | VFD-C2000, 6DI extension card, AC 110V power   |                                     |                                  |                           |   |                          |                  |
| Option 12   | EMC-BPS01                              | VFD-C2000, 24VDC External Power Supply Card  |                                     |                                  |                           |   |                          |                  |
| Option 13   | EMC-PG01L                              | VFD-C2000, Encoder Interface card, 5 VDC to encoder, Line-drive 300k pulse/sec. 5VDC 50mA pulse output |                                     |                                  |                           |   |                          |                  |
| Option 14   | EMC-PG01O                              | VFD-C2000, Encoder Interface card, 5 or 12 VDC to encoder, Open-collect 300k pulse/sec. pulse output   |                                     |                                  |                           |   |                          |                  |
| Option 15   | EMC-PG01R                              | VFD-C2000, Resolver Feedback Card; VFD-C, CP   |                                     |                                  |                           |   |                          |                  |
| Option 16   | EMC-PG01U                              | VFD-C2000, Encoder Interface card, 5 VDC to encoder, Line-drive (A,B,Z,U,V,W) . 5VDC 50mA pulse output |                                     |                                  |                           |   |                          |                  |
| Option 17   | EMC-R6AA                               | VFD-C2000, IO Extension card (6 output relays)   |                                     |                                  |                           |   |                          |                  |
| Option 18   | MKC-GN1CB                              | VFD-C2000, Conduit Box Kit, Frame G, NEMA 1  |                                     |                                  |                           |   |                          |                  |