



Model #: VFD040C43A

Date: 2020-04-13

| Description   |  |  |                                     |                                  |                           |   |                          |                  |
|---|--|--|-------------------------------------|----------------------------------|---------------------------|---|--------------------------|------------------|
| VFD-C2000, 5/7.5HP, 3.7/5.5Kw, (HD 9.45/LD 12.6A), 3 Ø 460VAC, 599.0Hz, (V/Hz, VC+PG, SVC, FOC, TQC & PM), c/w PLC, NEMA 1, Frame A |  |  |                                     |                                  |                           |   |                          |                  |
| Manufacturer  | Heavy Duty Output Rating               |  | Normal Duty Output Rating           |                                  | Light Duty Output Rating  |   | Single Phase Duty Rating |                  |
| Delta Electronics   | HD Input Amps Rating                   | 11,6   | ND Input Amps Rating                | 12,9                             | LD Input Amps Rating      | -   | 1 Ø Input Amps Rating    | 11,6             |
|   | Rated HP                               | Rated Amps   | HP                                  | Rated Amps                       | HP                        | Rated Amps  | HP                       | Amps             |
|   | 5,5                                    | 9,5  | 5,5                                 | 10,5                             | -                         | -   | 2,8                      | 4,8              |
|   | Max. HP                                | Max. Amps  | Max. HP                             | Max. Amps                        | Max. HP                   | Max. Amps   | Max. HP                  | Max. Amps        |
| Max. Capacity   | 7,5                                    | 11,4   | 7,5                                 | 12,6                             | -                         | -   | 2,8                      | 4,8              |
| Line Reactor  | Heavy Duty                             |  | Normal Duty                         |                                  | Light Duty                |   | 1 Ø Phase                |                  |
|   | Line                                   | Load   | Line                                | Load                             | Line                      | Load  | Line                     | Load             |
| Model   | KDRAA3H2                               | KDRAA3L2   | KDRAA4H2                            | KDRAA4L2                         | -                         | -   | KDRAA3H2                 | KDRMA8L1         |
| HP Rating   | 5,0                                    | 5,00   | 7,5                                 | 7,50                             | 0,00                      | -   | 5,00                     | 3,00             |
| Max Amps  | 8,2                                    | 8,2  | 12,0                                | 11,0                             | -                         | -   | 8,2                      | 5,0              |
| Inductance uH   | 3980                                   | 2770   | 3000,0                              | 1680                             | -                         | -   | 3980                     | 4270             |
| Nema 1 Encl.Size  | C1                                     | C1   | C1                                  | C1                               | -                         | -   | C1                       | C1               |
| Motor Models Compatible   | Heavy Duty                             |  | Normal Duty                         |                                  | Light Duty                |   | 1 Ø Phase                |                  |
|   | Model                                  | HP   | Model                               | HP                               | Model                     | HP  | Model                    | HP               |
|   | MQP-26                                 | 7,5  | MQP-28                              | 7,5                              | -                         | -   | MQP-13                   | 2                |
|   | FLA                                    | 8,8  | FLA                                 | 9,8                              | FLA                       | -   | FLA                      | 2,95             |
| VFD Dimensions  | Width (mm)                             | Width (in.)  | Height (mm)                         | Height (in.)                     | Depth (mm)                | Depth (in)  | Wgt (Kg)                 | Wgt (lbs)        |
|   | 130                                    | 5,1181   | 250                                 | 9,8425                           | 170                       | 6,6929  | 2,6                      | 6,0333           |
| 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 |                          |                  |
|   | 340 ~ 480VAC (± 10%)                   | 50/60Hz (±5%)  | 3                                   | NEMA 1                           |                           |   |                          |                  |
| 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 ~ 510.0Vac                         | ≥98%   | 1.26 ~ 12.6 A                       | 0 ~ 180%                         | 0 ~ 160%                  | 0 ~ 120%  | 2 ~ 15kHz                | 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 %  | Built-in                            | 1000W 75Ω                        | 54.3 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       |   |                          |                  |
| 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   | -                                      | -  |                                     |                                  |                           |   |                          |                  |