



Model #: VFD185C23A

Date: 2020-04-13

| Description | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------|-----------------|
| VFD-C2000, 25/30HP, 18.5/22Kw, (HD 67.5/LD 90A), 3 Ø 230VAC, 599.0Hz, (V/Hz, VC+PG, SVC, FOC, TQC & PM), c/w PLC, NEMA 1, Frame C | | | | | | | | |
| Manufacturer | Heavy Duty Output Rating | | Normal Duty Output Rating | | Light Duty Output Rating | | Single Phase Duty Rating | |
| Delta Electronics | HD Input Amps Rating | 68,9 | ND Input Amps Rating | 91,8 | LD Input Amps Rating | - | 1 Ø Input Amps Rating | 68,9 |
| | Rated HP | Rated Amps | HP | Rated Amps | HP | Rated Amps | HP | Amps |
| | 25,0 | 71,0 | 30,0 | 75,0 | - | - | 12,5 | 35,5 |
| Max. Capacity | 25,0 | 85,2 | 30,0 | 90,0 | - | - | 12,5 | 35,5 |
| Line Reactor | Heavy Duty | | Normal Duty | | Light Duty | | 1 Ø Phase | |
| | Line | Load | Line | Load | Line | Load | Line | Load |
| Model | KDRF28H | KDRC22L | KDRF25H | KDRF24L | - | - | KDRF28H | KDRD25L |
| HP Rating | 25,0 | 25,00 | 30,0 | 30,00 | 0,00 | - | 25,00 | 10,00 |
| Max Amps | 75,0 | 80,0 | 92,0 | 100,0 | - | - | 75,0 | 34,0 |
| Inductance uH | 226 | 138 | 189,0 | 116 | - | - | 226 | 342 |
| Nema 1 Encl.Size | C3 | C2 | C4 | C4 | - | - | C3 | C2 |
| Motor Models Compatible | Heavy Duty | | Normal Duty | | Light Duty | | 1 Ø Phase | |
| | Model | HP | Model | HP | Model | HP | Model | HP |
| | MQP-48 | 25 | MQP-53 | 30 | - | - | MQP-38 | 15 |
| FLA | 61 | FLA | 71,8 | FLA | - | FLA | 38 | |
| VFD Dimensions | Width (mm) | Width (in.) | Height (mm) | Height (in.) | Depth (mm) | Depth (in) | Wgt (Kg) | Wgt (lbs) |
| | 250 | 9,8425 | 400 | 15,748 | 210 | 8,2677 | 9,8 | 22,7409 |
| Input 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 | | |
| | 180 ~ 240VAC (± 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 |
| 0.0 ~ 255.0Vac | ≥98% | 9.0 ~ 90.0 A | 0 ~ 180% | 0 ~ 160% | 0 ~ 120% | 2 ~ 10kHz | 0.0 ~ 6000 secs | Normal Duty |
| Over Torque Level | DC Injection | Braking Chopper | Equivalent Braking Resistor Circuit | Minimum Braking Resistance Value | Starting Torque @ | | | |
| 10 ~ 250% | 0 ~ 100.0 % | Built-in | 2000W 8.6Ω | 8.3 Ω | V/Hz | SVC | VC+PG | |
| | | | | | 0 ~ 250% @ 0.5Hz | 0 ~ 250% @ 0.5Hz | 0 ~ 250% @ 0.0Hz | |
| 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 / 0 ~20ma | 0 ~ 10vdc / 0 ~20ma | Pulsed Frequency | Removable | 20 last faults | Yes |
| 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 | - | - | | | | | | |