



VFD5A5MS43MFSAA



Model #:

| Description | | | | | | | | |
|--|--------------------------|---|-------------------------------------|----------------------------------|---------------------------|---|--------------------------|-----------------|
| (MS300) 3HP (HD 5.85A) / 5HP (ND 7.8A), 3 Ø 460VAC, 0-599.0Hz (op), (V/Hz, SVC, PM), c/w EMI filter, IP66, Frame B | | | | | | | | |
| Manufacturer | Heavy Duty Output Rating | | Normal Duty Output Rating | | - | | Single Phase Duty Rating | |
| Delta Electronics | Input Amps Rating | 6,1 | Input Amps Rating | 7,2 | Input Amps Rating | - | 1 Ø Input Amps Rating | 7,2 |
| | Rated HP | Rated Amps | HP | Rated Amps | HP | Rated Amps | HP | Amps |
| | 3,0 | 5,5 | 3,0 | 5,5 | 3,0 | 6,5 | 1,5 | 2,8 |
| | Max. HP | Max. Amps | Max. HP | Max. Amps | Max. HP | Max. Amps | Max. HP | Max. Amps |
| Max. Capacity | 3,0 | 6,6 | 3,0 | 6,6 | 5,0 | 7,8 | 1,5 | 2,8 |
| Line Reactor | Heavy Duty | | - | | - | | 1 Ø Phase | |
| | Line | Load | Line | Load | Line | Load | Line | Load |
| Model | KDRAA2H2 | KDRMA8L1 | KDRAA3H2 | KDRAA3L2 | - | - | KDRAA2H2 | KDRMA6L1 |
| HP Rating | 3,0 | 3,00 | 5,0 | 5,00 | - | - | 3,00 | 1,50 |
| Max Amps | 5,4 | 5,0 | 8,2 | 8,2 | - | - | 5,4 | 3,4 |
| Inductance uH | 7290 | 4270 | 3980,0 | 2770 | - | - | 7290 | 6248 |
| Nema 1 Encl.Size | C1 | C1 | C1 | C1 | - | - | C1 | C1 |
| Motor Models Compatible | Heavy Duty | | - | | - | | 1 Ø Phase | |
| | Model | HP | Model | HP | Model | HP | Model | HP |
| | MPA-17 | 3 | MPA-23 | 5 | - | - | MQP-8 | 1,5 |
| | FLA | / | FLA | / | FLA | - | FLA | 2,4 |
| VFD Dimensions | Width (mm) | Width (in.) | Height (mm) | Height (in.) | Depth (mm) | Depth (in) | Wgt (Kg) | Wgt (lbs) |
| | 175 | 6,88975 | 280 | 11,0236 | 183 | 7,20471 | 1,8 | 4,1769 |
| Input Voltage | Input Frequency | Input Phase | Enclosure | | Control Method | V/Hz, Sensorless Vector, PM Motor Control | | |
| 380 ~ 480VAC (± 10%) | 50/60Hz (±5%) | 3 | NEMA 4X / IP66 | | | | | |
| 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 |
| 0.0 ~ 510Vac | ≥97% | 0.55 ~ 7.80 A | 0 ~ 200% | 0 ~ 150% | - | 2 ~ 15kHz | 0.00 ~ 600.00 | Heavy 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 | 300W 250Ω | 109 Ω | V/Hz | SVC | VC+PG | |
| | | | | | 10 ~ 200% @ 3Hz | 10 ~ 200% @ 0.3Hz | | |
| Analog Inputs | | | Analog Outputs | | | Keypad | Fault Record | Reel Time Stamp |
| AVI | ACI | AUI | AFM1 | AFM2 | DFM | | | |
| 0 ~ 10vdc or -10 ~ +10vdc | 0/4 ~ 20ma or 0 ~ 10vdc | - | 0/4 ~ 20ma or 0 ~ 10vdc | - | - | Not Removable | 10 last faults | Thru PLC |
| Digital Inputs | | | | | Signal mode | | | |
| Dedicated | Safe Torque Off | Programmable | Control Voltage | | | | | |
| STO1, STO2 | Yes | 7 | 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 | - | 15 | No | 2K Steps | 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 | - | | |
| USB type B | RJ45 (RS-485) / SG+, SG- | - | - | | | | | |
| Options | | | | | | | | |
| Option 1 | KPC-CC01 | (C2000+ / CP2000, MS300) Standard keypad shipped with C2000 / CP2000 series. Also compatible, MS-300. | | | | | | |
| Option 2 | MKC-KPPK | (C2000+ / CP2000), Keypad Remote Panel Adapter, IP66 | | | | | | |
| Option 3 | MKM-EPC | (MS300), EMC Shielded Cable Earthing Plate, Frame C | | | | | | |
| Option 4 | KPC-CE01 | (C2000+ / CP2000), LED English Keypad for C2000 | | | | | | |
| Option 5 | - | - | | | | | | |
| Option 6 | CMM-COP01 | VFD-MH/MS300, CANopen Communication Card | | | | | | |
| Option 7 | CMM-DN01 | VFD-MH/MS300, DeviceNet Communication Card | | | | | | |
| Option 8 | CMM-EIP01 | VFD-MH/MS300, EtherNet/IP Communication Card | | | | | | |
| Option 9 | CMM-EC02 | VFD-MS/MH300, EtherCAT Communication Card | | | | | | |
| Option 10 | CMM-MOD01 | VFD-MH/MS300, Modbus TCP Communication Card | | | | | | |
| Option 11 | CMM-PD01 | VFD-MH/MS300, Profibus DP Communication Card | | | | | | |
| Option 12 | EMM-BPS01 | VFD-MH/MS300, Back-up Power Supply card | | | | | | |
| Option 13 | - | - | | | | | | |
| Option 14 | - | - | | | | | | |
| Option 15 | - | - | | | | | | |
| Option 16 | - | - | | | | | | |
| Option 17 | - | - | | | | | | |
| Option 18 | CBM-CL01A | MS/MH300 Communication Card Connection Cable for CMM-xxx02 | | | | | | |