



Model #: **VFD9A9MS53ANSA**

Date: 2020-04-15

| Description | | | | | | | | |
|---|--------------------------|---|-------------------------------------|----------------------------------|---------------------------|---|--------------------------|-----------------|
| VFD-MS300, 7.5/10HP, 5.5/7.5kw, (HD 9.9/ND 11.5A), 3 Ø 575VAC, 599.0Hz, (V/Hz, SVC, PM), IP20, Frame D1 | | | | | | | | |
| Manufacturer | Heavy Duty Output Rating | | Normal Duty Output Rating | | Light Duty Output Rating | | Single Phase Duty Rating | |
| Delta Electronics | HD Input Amps Rating | 11,5 | ND Input Amps Rating | 13,4 | LD Input Amps Rating | - | 1 Ø Input Amps Rating | 13,4 |
| | Rated HP | Rated Amps | HP | Rated Amps | HP | Rated Amps | HP | Amps |
| | 7,5 | 9,9 | 10,0 | 11,5 | - | - | 3,0 | 5,0 |
| | Max. HP | Max. Amps | Max. HP | Max. Amps | Max. HP | Max. Amps | Max. HP | Max. Amps |
| Max. Capacity | 7,5 | 11,9 | 10,0 | 13,8 | - | - | 3,0 | 5,0 |
| Line Reactor | Heavy Duty | | Normal Duty | | Light Duty | | 1 Ø Phase | |
| | Line | Load | Line | Load | Line | Load | Line | Load |
| Model | KDRB42H | KDRAA48L2 | KDRB43H | KDRAA49L2 | - | - | KDRB42H | KDRAA52L2 |
| HP Rating | 7,5 | 7,50 | 10,0 | 10,00 | 0,00 | - | 7,50 | 3,00 |
| Max Amps | 10,0 | 9,0 | 11,0 | 11,0 | - | - | 10,0 | 4,8 |
| Inductance uH | 5370 | 3100 | 4340,0 | 2470 | - | - | 5370 | 6740 |
| Nema 1 Encl.Size | C2 | C1 | C2 | C1 | - | - | C2 | C1 |
| Motor Models Compatible | Heavy Duty | | Normal Duty | | Light Duty | | 1 Ø Phase | |
| | Model | HP | Model | HP | Model | HP | Model | HP |
| | MPP-27 | 7,5 | MPP-37 | 15 | - | - | MPP-17 | 3 |
| | FLA | 7,4 | FLA | 14,6 | FLA | - | FLA | 3,2 |
| VFD Dimensions | Width (mm) | Width (in.) | Height (mm) | Height (in.) | Depth (mm) | Depth (in) | Wgt (Kg) | Wgt (lbs) |
| | 109 | 4,29133 | 207 | 8,14959 | 154 | 6,06298 | 2,9 | 6,752655 |
| | Input Voltage | Input Frequency | Input Phase | Enclosure | Control Method | V/Hz, Sensorless Vector, PM Motor Control | | |
| | 440 ~ 575VAC (± 10%) | 50/60Hz (±5%) | 3 | NEMA1 Optional | | | | |
| 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 ~ 510.0Vac | ≥97% | 0.99 ~ 13.80 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 % | Builtin | 600W 200Ω | 82 Ω | V/Hz | SVC | VC+PG | |
| | | | | | 10 ~ 200% @ 3.0Hz | 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 | - | - | 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 | | | | | |
| USB type B | RJ45 (RS-485) / SG+, SG- | - | - | Modbus ACSII | Modbus RTU | - | | |
| 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 | MKM-EPF | VFD-MH/MS300, EMC Shielded Cable Earthing Plate, Frame F | | | | | | |
| Option 4 | - | | | | | | | |
| Option 5 | KPC-CE01 | VFD-C2000, LED English Keypad for C2000 | | | | | | |
| Option 6 | MKM-CBD | VFD-MH/MS300, NEMA1 conduit box frame D | | | | | | |
| Option 7 | CMM-COP01 | VFD-MH/MS300, CANopen Communication Card | | | | | | |
| Option 8 | CMM-DN01 | VFD-MH/MS300, DeviceNet Communication Card | | | | | | |
| Option 9 | CMM-EIP01 | VFD-MH/MS300, EtherNet/IP Communication Card | | | | | | |
| Option 10 | CMM-EC01 | VFD-MH300, EtherCAT Communication Card | | | | | | |
| Option 11 | CMM-MOD01 | VFD-MH/MS300, Modbus TCP Communication Card | | | | | | |
| Option 12 | CMM-PD01 | VFD-MH/MS300, Profibus DP Communication Card | | | | | | |
| Option 13 | EMM-BPS01 | VFD-MH/MS300, Back-up Power Supply card | | | | | | |
| Option 14 | - | | | | | | | |
| Option 15 | EG1010A | 1 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads | | | | | | |
| Option 16 | EG2010A | 2 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads | | | | | | |
| Option 17 | EG3010A | 3 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads | | | | | | |
| Option 18 | EG5010A | 5 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads | | | | | | |