

**Model #:**

| Description                                                                           |                          |                                                                                                                       |                                     |                                  |                           |                                           |                          |                 |
|---------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|---------------------------|-------------------------------------------|--------------------------|-----------------|
| (MS300) 2HP, 1.5kW, (HD 7.5A), 1 Ø 230VAC, 0-1500Hz (op), (V/Hz, SVC), IP20, Frame C1 |                          |                                                                                                                       |                                     |                                  |                           |                                           |                          |                 |
| Manufacturer                                                                          | Heavy Duty Output Rating |                                                                                                                       | Normal Duty Output Rating           |                                  | -                         |                                           | Single Phase Duty Rating |                 |
| Delta Electronics                                                                     | Input Amps Rating        | 15,8                                                                                                                  | Input Amps Rating                   | -                                | Input Amps Rating         | -                                         | 1 Ø Input Amps Rating    | -               |
|                                                                                       | Rated HP                 | Rated Amps                                                                                                            | HP                                  | Rated Amps                       | HP                        | Rated Amps                                | HP                       | Amps            |
|                                                                                       | -                        | -                                                                                                                     | -                                   | -                                | -                         | -                                         | 2,0                      | 9,0             |
|                                                                                       | Max. HP                  | Max. Amps                                                                                                             | Max. HP                             | Max. Amps                        | Max. HP                   | Max. Amps                                 | Max. HP                  | Max. Amps       |
| Max. Capacity                                                                         | -                        | -                                                                                                                     | -                                   | -                                | -                         | -                                         | 2,0                      | 9,0             |
| Line Reactor                                                                          | Heavy Duty               |                                                                                                                       | -                                   |                                  | -                         |                                           | 1 Ø Phase                |                 |
|                                                                                       | Line                     | Load                                                                                                                  | Line                                | Load                             | Line                      | Load                                      | Line                     | Load            |
| Model                                                                                 | -                        | KDRMA27L1                                                                                                             | -                                   | -                                | -                         | -                                         | KDRB25H                  | KDRMA27L1       |
| HP Rating                                                                             | -                        | 2,00                                                                                                                  | -                                   | -                                | -                         | -                                         | 5,00                     | 2,00            |
| Max Amps                                                                              | -                        | 10,0                                                                                                                  | -                                   | -                                | -                         | -                                         | 17,0                     | 10,0            |
| Inductance uH                                                                         | -                        | 1350                                                                                                                  | -                                   | -                                | -                         | -                                         | 1030                     | 1350            |
| Nema 1 Encl.Size                                                                      | -                        | C1                                                                                                                    | -                                   | -                                | -                         | -                                         | C1                       | C1              |
| Motor Models Compatible                                                               | Heavy Duty               |                                                                                                                       | -                                   |                                  | -                         |                                           | 1 Ø Phase                |                 |
|                                                                                       | Model                    | HP                                                                                                                    | Model                               | HP                               | Model                     | HP                                        | Model                    | HP              |
|                                                                                       | MQP-12                   | 2                                                                                                                     | MQP-17                              | 3                                | -                         | -                                         | MQP-12                   | 2               |
|                                                                                       | FLA                      | 6,2                                                                                                                   | FLA                                 | 7,6                              | FLA                       | -                                         | FLA                      | 6,2             |
| VFD Dimensions                                                                        | Width (mm)               | Width (in.)                                                                                                           | Height (mm)                         | Height (in.)                     | Depth (mm)                | Depth (in)                                | Wgt (Kg)                 | Wgt (lbs)       |
|                                                                                       | 87                       | 3,42519                                                                                                               | 157                                 | 6,18109                          | 152                       | 5,98424                                   | 1,2                      | 2,87742         |
|                                                                                       |                          |                                                                                                                       |                                     |                                  |                           |                                           |                          |                 |
|                                                                                       | Input Voltage            | Input Frequency                                                                                                       | Input Phase                         | Enclosure                        | Control Method            | V/Hz, Sensorless Vector, PM Motor Control |                          |                 |
|                                                                                       | 200 ~ 240VAC (± 10%)     | 50/60Hz (±5%)                                                                                                         | 1                                   | NEMA1 Optional                   |                           |                                           |                          |                 |
| 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 ~255Vac                                                                           | ≥97%                     | 0.75 ~ 9.0 A                                                                                                          | 0 ~ 200%                            | -                                | -                         | 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 @         |                                           |                          |                 |
|                                                                                       |                          |                                                                                                                       |                                     |                                  | V/Hz                      | SVC                                       | VC+PG                    |                 |
| 10 ~ 250%                                                                             | 0 ~ 100.0 %              | Builitn                                                                                                               | 200W 91Ω                            | 47.5 Ω                           | 10 ~ 200% @ 3Hz           | -                                         | -                        |                 |
| Analog Inputs                                                                         |                          |                                                                                                                       | Analog Outputs                      |                                  |                           | Keypad                                    | Fault Record             | Reel Time Stamp |
| AVI                                                                                   | ACI                      | AUI                                                                                                                   | AFM1                                | 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                            |                           |                                           |                          |                 |
| 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                 | (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                                                                              | MKM-CBC                  | (MS300), NEMA1 conduit box kit, frame C                                                                               |                                     |                                  |                           |                                           |                          |                 |
| 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                                                                             | MKM-DRC                  | (MS300), DIN Rail Kit, Frame C                                                                                        |                                     |                                  |                           |                                           |                          |                 |
| Option 14                                                                             | EG1010A                  | 1 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads |                                     |                                  |                           |                                           |                          |                 |
| Option 15                                                                             | EG2010A                  | 2 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads |                                     |                                  |                           |                                           |                          |                 |
| Option 16                                                                             | EG3010A                  | 3 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads |                                     |                                  |                           |                                           |                          |                 |
| Option 17                                                                             | EG5010A                  | 5 meter Extension Cable for remote Keypad mounting, compatible with B, M, E, MH-300 & MS-300 series removable Keypads |                                     |                                  |                           |                                           |                          |                 |
| Option 18                                                                             | CBM-CL02A                | MS/MH300 Communication Card Connection Cable for CMM-xxx02                                                            |                                     |                                  |                           |                                           |                          |                 |