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| Model #: | VFD11AMS21AFSAA |
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| Description                                                                                                          |                          |                                                                                                                       |                                     |                                  |                           |                                           |                          |                 |
|----------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------|---------------------------|-------------------------------------------|--------------------------|-----------------|
| VFD-MS300, 3/5HP, 2.2/3.7kw, (HD 11.25/LD 15A), 1 Ø 230VAC, 599.0Hz, (V/Hz, SVC, PM), c/w EMI filter, IP20, Frame C2 |                          |                                                                                                                       |                                     |                                  |                           |                                           |                          |                 |
| Manufacturer                                                                                                         | Heavy Duty Output Rating |                                                                                                                       | Normal Duty Output Rating           |                                  | Light Duty Output Rating  |                                           | Single Phase Duty Rating |                 |
| Delta Electronics                                                                                                    | HD Input Amps Rating     | -                                                                                                                     | ND Input Amps Rating                | -                                | LD Input Amps Rating      | -                                         | 1 Ø Input Amps Rating    | 23,1            |
|                                                                                                                      | Rated HP                 | Rated Amps                                                                                                            | HP                                  | Rated Amps                       | HP                        | Rated Amps                                | HP                       | Amps            |
|                                                                                                                      | -                        | -                                                                                                                     | -                                   | -                                | -                         | -                                         | 3,0                      | 15,0            |
|                                                                                                                      | Max. HP                  | Max. Amps                                                                                                             | Max. HP                             | Max. Amps                        | Max. HP                   | Max. Amps                                 | Max. HP                  | Max. Amps       |
| Max. Capacity                                                                                                        | -                        | -                                                                                                                     | -                                   | -                                | -                         | -                                         | 3,0                      | 15,0            |
| Line Reactor                                                                                                         | Heavy Duty               |                                                                                                                       | Normal Duty                         |                                  | Light Duty                |                                           | 1 Ø Phase                |                 |
|                                                                                                                      | Line                     | Load                                                                                                                  | Line                                | Load                             | Line                      | Load                                      | Line                     | Load            |
| Model                                                                                                                | -                        | KDRAA28L2                                                                                                             | -                                   | KDRB22L                          | -                         | -                                         | KDRB26H                  | KDRAA28L2       |
| HP Rating                                                                                                            | -                        | 3,00                                                                                                                  | 0,0                                 | 5,00                             | 0,00                      | -                                         | 7,50                     | 3,00            |
| Max Amps                                                                                                             | -                        | 11,0                                                                                                                  | -                                   | 19,0                             | -                         | -                                         | 26,0                     | 11,0            |
| Inductance uH                                                                                                        | -                        | 971                                                                                                                   | -                                   | 626                              | -                         | -                                         | 699                      | 971             |
| Nema 1 Encl.Size                                                                                                     | -                        | 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-17                   | 3                                                                                                                     | MQP-23                              | 5                                | -                         | -                                         | MQP-17                   | 3               |
|                                                                                                                      | FLA                      | 7,6                                                                                                                   | FLA                                 | 14,2                             | FLA                       | -                                         | FLA                      | 7,6             |
| VFD Dimensions                                                                                                       | Width (mm)               | Width (in.)                                                                                                           | Height (mm)                         | Height (in.)                     | Depth (mm)                | Depth (in)                                | Wgt (Kg)                 | Wgt (lbs)       |
|                                                                                                                      | 87                       | 3,42519                                                                                                               | 157                                 | 6,18109                          | 179                       | 7,04723                                   | 1,8                      | 4,1769          |
|                                                                                                                      |                          |                                                                                                                       |                                     |                                  |                           |                                           |                          |                 |
|                                                                                                                      | 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 HD           | Stall Prevention Level ND        | Stall Prevention Level LD | Carrier Frequency                         | Accel / Decel Time       | Default Rating  |
| 0.0 ~ 255.0Vac                                                                                                       | ≥97%                     | 1.10 ~ 15.00 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 @         |                                           |                          |                 |
|                                                                                                                      |                          |                                                                                                                       |                                     |                                  | V/Hz                      | SVC                                       | VC+PG                    |                 |
| 10 ~ 250%                                                                                                            | 0 ~ 100.0 %              | Builtin                                                                                                               | 300W 70Ω                            | 38 Ω                             | 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             | -                                | -                         |                                           |                          |                 |
| 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                 | 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-EPC                  | VFD-MH/MS300, EMC Shielded Cable Earthing Plate, Frame C                                                              |                                     |                                  |                           |                                           |                          |                 |
| Option 4                                                                                                             | -                        | -                                                                                                                     |                                     |                                  |                           |                                           |                          |                 |
| Option 5                                                                                                             | KPC-CE01                 | VFD-C2000, LED English Keypad for C2000                                                                               |                                     |                                  |                           |                                           |                          |                 |
| Option 6                                                                                                             | MKM-CBC                  | VFD-MH/MS300, NEMA1 conduit box frame C                                                                               |                                     |                                  |                           |                                           |                          |                 |
| 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                                                                                                            | MKM-DRC                  | VFD-MH/MS300, DIN Rail Kit, Frame C                                                                                   |                                     |                                  |                           |                                           |                          |                 |
| 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 |                                     |                                  |                           |                                           |                          |                 |