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# Customer information packet

## CFSWDM3550-E

1.5HP, 3500RPM, 3PH, 60HZ, 56C, 3532M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TENV                                                        |
| Frame                          | 56C                                                         |
| Frame Material                 | Stainless Steel                                             |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | 1.500 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | UR<br>CSA                                                   |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | Rigid                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 1.800 A @ 460.0 V<br>3.600 A @ 230.0 V<br>3.700 A @ 208.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 85.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Face Code                | Standard                                                    |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | L          |
| Type         | AC         |
| Mech. spec.  | 35E4735    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGR929   |
| Layout       | 35LYE4735  |
| Eff. date    | 08-14-2023 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18 Y     |
| Proprietary  | False      |
| Created date | 07-18-2017 |

|                               |                        |
|-------------------------------|------------------------|
| High Voltage Full Load Amps   | 1.8 a                  |
| Insulation Class              | H                      |
| Inverter Code                 | Inverter Ready         |
| KVA Code                      | M                      |
| Lifting Lugs                  | No Lifting Lugs        |
| Locked Bearing Indicator      | Locked Bearing         |
| Motor Finish                  | UNPAINTED              |
| Motor Lead Exit               | Ko Box                 |
| Motor Lead Quantity/Wire Size | @ 0 AWG<br>9 @ 18 AWG  |
| Motor Lead Termination        | Flying Leads           |
| Motor Standards               | NEMA                   |
| Motor Type                    | 3532M                  |
| Mounting Arrangement          | F1                     |
| Number of Poles               | 2                      |
| Overall Length                | 13.67 IN               |
| Power Factor                  | 90                     |
| Product Family                | WD All SS Encapsulated |
| Pulley End Bearing Type       | Sealed Bearing         |
| Pulley Face Code              | C-Face                 |
| Pulley Shaft Indicator        | Standard               |
| Rodent Screen                 | None                   |
| RoHS Status                   | ROHS COMPLIANT         |
| Service Factor                | 1.15                   |
| Shaft Diameter                | 0.625 IN               |
| Shaft Extension Location      | Pulley End             |
| Shaft Ground Indicator        | No Shaft Grounding     |
| Shaft Rotation                | Reversible             |
| Shaft Slinger Indicator       | No Slinger             |
| Speed                         | 3500 rpm               |
| Speed Code                    | Single Speed           |
| Starting Method               | Direct on line         |
| Thermal Device - Bearing      | None                   |
| Thermal Device - Winding      | None                   |

| Vibration Sensor Indicator | No Vibration Sensor |
|----------------------------|---------------------|
| Winding Thermal 1          | None                |
| Winding Thermal 2          | None                |

## Nameplate

| NP4427AAA01 |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|-------------|---------------|------|---------|-----|------|---------------|------|------|-------|------|------|-----|-------|--|
| CAT #       | CFSWDM3550-E  |      |         |     |      | WT            | 50   |      | LBS   |      |      |     |       |  |
| SPEC        | 35E4735R929G2 |      |         |     |      | ENCL          | TENV |      |       |      |      |     |       |  |
| SER #       |               |      |         |     |      | CC            | 010A |      | IP    | 69   |      |     |       |  |
| HP          | 1.5           |      | MAG CUR |     |      | 1.3/.65       |      |      |       |      |      |     |       |  |
| VOLTS       | 230/460       |      |         |     |      | NEMA NOM. EFF |      |      |       |      | 85.5 |     |       |  |
| AMPS        | 3.6/1.8       |      |         |     |      | PF            | 90   |      |       |      |      |     |       |  |
| RATING      | 40C AMB-CONT  |      |         |     |      |               |      |      |       |      |      |     |       |  |
| RPM         | 3500          |      |         |     |      | MAX RPM       |      | 5400 |       |      |      |     |       |  |
| FRAME       | 56C           |      | HZ      | 60  |      | CODE          | M    |      | CLASS | H    |      |     |       |  |
| SER.F.      | 1.15          |      | SF AMP  |     |      |               |      |      | PH    | 3    |      | DES | B     |  |
| DE          | 6205          |      |         | ODE |      | 6205          |      |      |       |      |      |     |       |  |
| LUBRICATION | POLYREX EM    |      |         |     |      |               |      |      |       |      |      |     |       |  |
| ID LOGO     | INVERTER TYPE |      |         |     | VPWM |               | CHP  | 60   |       | TO   | 90   |     | 1.5:1 |  |
| ID LOGO     | WK2           | 0.09 |         | CT  | 15   |               | TO   | 60   |       | 4:1  |      |     |       |  |
| ID LOGO     | SL HZ         | 1.7  |         | VT  | 3    |               | TO   | 60   |       | 20:1 |      |     |       |  |
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|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
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|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |
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|             |               |      |         |     |      |               |      |      |       |      |      |     |       |  |

**AC Induction Motor Performance Data**

Record # 20333

Typical performance - not guaranteed values

| Winding: 35WGR929-R003 |          |                   | Type: 3532M                              |  | Enclosure: TENV |  |
|------------------------|----------|-------------------|------------------------------------------|--|-----------------|--|
| Nameplate Data         |          |                   | 460 V, 60 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |          | 1.5               | Full Load Torque                         |  | 2.31 LB-FT      |  |
| Volts                  |          | 208-230/460       | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |          | 3.7-3.6/1.8       | Breakdown Torque                         |  | 10.9 LB-FT      |  |
| R.P.M.                 |          | 3500              | Pull-up Torque                           |  | 5.2 LB-FT       |  |
| Hz                     | 60 Phase | 3                 | Locked-rotor Torque                      |  | 10.2 LB-FT      |  |
| NEMA Design Code       |          | B KVA Code        | Starting Current                         |  | 20.6 A          |  |
| Service Factor (S.F.)  |          | 1.15              | No-load Current                          |  | 0.694 A         |  |
| NEMA Nom. Eff.         |          | 85.5 Power Factor | Line-line Res. @ 25°C                    |  | 7.64 Ω          |  |
| Rating - Duty          |          | 40C AMB-CONT      | Temp. Rise @ Rated Load                  |  | 78°C            |  |
| S.F. Amps              |          |                   | Temp. Rise @ S.F. Load                   |  | 90°C            |  |
|                        |          |                   | Locked-rotor Power Factor                |  | 46              |  |
|                        |          |                   | Rotor inertia                            |  | 0.0885 LB-FT2   |  |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25    | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|-------|------|------|------|------|------|------|
| Power Factor    | 55    | 77   | 86   | 92   | 93   | 90   | 93   |
| Efficiency      | 73.8  | 82.3 | 85.2 | 86.1 | 85.9 | 85.5 | 86   |
| Speed           | 3564  | 3536 | 3507 | 3476 | 3444 | 3406 | 3457 |
| Line amperes    | 0.907 | 1.15 | 1.48 | 1.81 | 2.23 | 2.75 | 2.06 |

ABB Motors and Mechanical Inc.

WINDING # 35WGR929

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3532M

TORQUES (LB-FT): PO=10.9 PU=5.2 LR=10.2 LRA=20.6







