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# Customer information packet

## CFSWDM3543-E

.75HP, 1170RPM, 3PH, 60HZ, 56C, 3530M, 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             | .750 HP @ 60 HZ                                             |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 208.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| Agency Approvals               | CSA<br>CURUSEEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>WEEE     |
| 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              | 2.800 A @ 208.0 V<br>2.700 A @ 230.0 V<br>1.350 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 82.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  | 35E4735    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG335   |
| Layout       | 35LYE4735  |
| Eff. date    | 11-08-2023 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 09-09-2022 |

|                               |                            |
|-------------------------------|----------------------------|
| Feedback Device               | NO FEEDBACK                |
| Front Shaft Indicator         | None                       |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 1.4 a                      |
| Insulation Class              | H                          |
| Inverter Code                 | Inverter Duty              |
| KVA Code                      | L                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 1800 rpm                   |
| Motor Finish                  | UNPAINTED                  |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG                 |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3530M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 6                          |
| Overall Length                | 13.67 IN                   |
| Power Factor                  | 61                         |
| Product Family                | WD All SD Non-Encapsulated |
| Pulley End Bearing Type       | Sealed Bearing             |
| Pulley Face Code              | C-Face                     |
| Pulley Shaft Indicator        | Standard                   |
| Rodent Screen                 | None                       |
| Service Factor                | 1.15                       |
| Shaft Diameter                | 0.625 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Shaft Slinger Indicator       | No Slinger                 |
| Speed                         | 1170 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                |



## AC Induction Motor Performance Data

Record # 87730

Preliminary Data Sheet

| Winding: 35WGG335-R001 |    |              | Type: 3530M  |                                          | Enclosure: TENV       |                |        |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|----------------|--------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                |        |
| Rated Output (HP)      |    | .75          |              | Full Load Torque                         |                       | 3.38 LB-FT     |        |
| Volts                  |    | 208-230/460  |              | Start Configuration                      |                       | direct on line |        |
| Full Load Amps         |    | 2.8-2.7/1.35 |              | Breakdown Torque                         |                       | 13.03 LB-FT    |        |
| R.P.M.                 |    | 1170         |              | Pull-up Torque                           |                       | 7.09 LB-FT     |        |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 8.26 LB-FT     |        |
| NEMA Design Code       |    | B            | KVA Code     | L                                        | Starting Current      |                | 8.66 A |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                       | 0.928 A        |        |
| NEMA Nom. Eff.         |    | 82.5         | Power Factor | 61                                       | Line-line Res. @ 25°C |                | 22.1 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 70°C           |        |
| S.F. Amps              |    | 3-2.9/1.45   |              | Temp. Rise @ S.F. Load                   |                       | 80°C           |        |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 46.9           |        |
|                        |    |              |              | Rotor inertia                            |                       | 0.218 lb-ft²   |        |

## Load Characteristics 460 V, 60 Hz, 0.75 HP

| % of Rated Load | 25    | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|-------|------|------|------|------|------|------|
| Power Factor    | 28    | 43   | 55   | 64   | 70   | 74   | 68   |
| Efficiency      | 67.6  | 78.4 | 81.4 | 82.1 | 81.5 | 80.3 | 81.7 |
| Speed           | 1194  | 1187 | 1181 | 1173 | 1165 | 1156 | 1168 |
| Line amperes    | 0.953 | 1.04 | 1.17 | 1.34 | 1.54 | 1.77 | 1.46 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG335

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1170 RPM 460 V 3530M

TORQUES (LB-FT): PO=13.03 PU=7.09 LR=8.26 LRA=8.66





