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# Customer information packet

## IDCSWDM3558

2HP, 1760RPM, 3PH, 60HZ, 56C, 3528M, TEFC, F1, N

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| 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             | 2.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | CSA<br>CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR        |
| 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              | 5.600 A @ 230.0 V<br>5.800 A @ 208.0 V<br>2.800 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 86.5 %                                                      |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  | 35S641     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG073   |
| Layout       | 35LYS641   |
| Eff. date    | 11-08-2023 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18 Y     |
| Proprietary  | False      |
| Created date | 03-11-2022 |

|                               |                            |
|-------------------------------|----------------------------|
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 2.8 a                      |
| Insulation Class              | H                          |
| Inverter Code                 | Inverter Ready             |
| KVA Code                      | K                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 2700 rpm                   |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG                 |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3528M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 4                          |
| Overall Length                | 13.24 IN                   |
| Power Factor                  | 77                         |
| Product Family                | Wash Down Paint Free       |
| Pulley End Bearing Type       | Sealed Bearing             |
| Pulley Face Code              | C-Face                     |
| Pulley Shaft Indicator        | Standard                   |
| Rodent Screen                 | None                       |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 0.625 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Shaft Slinger Indicator       | Shaft Slinger              |
| Speed                         | 1760 rpm                   |
| Speed Code                    | Single Speed               |
| Starting Method               | Direct on line             |
| Thermal Device - Bearing      | None                       |
| Thermal Device - Winding      | Normally Closed Thermostat |
| Vibration Sensor Indicator    | No Vibration Sensor        |
| Winding Thermal 1             | None                       |
| Winding Thermal 2             | None                       |

## Nameplate

| NP3956L        |              |    |            |         |    |       |     |  |  |
|----------------|--------------|----|------------|---------|----|-------|-----|--|--|
| CAT.NO.        | IDCSWDM3558  |    |            |         |    |       |     |  |  |
| SPEC.          | 35S641G073G2 |    |            |         |    |       |     |  |  |
| FRAME          | 56C          |    | H.P.       | 2       | TE |       |     |  |  |
| VOLTS          | 230/460      |    |            |         |    |       |     |  |  |
| MAG. CUR.      | 3.2/1.6      |    | F.L. AMPS  | 5.6/2.8 |    |       |     |  |  |
| R.P.M.         | 1760         |    | R.P.M. MAX | 2700    |    |       |     |  |  |
| HZ.            | 60           |    | PH.        | 3       |    | CLASS | H   |  |  |
| SER.F.         | 1.00         |    | DES.       | B       |    | SL HZ | 1.3 |  |  |
| NEMA NOM. EFF. | 86.5         |    | WK2        | 0.202   |    |       |     |  |  |
| BLWR V         |              | PH |            | HZ      |    | AMPS  |     |  |  |
| RATING         | 40C AMB-CONT |    |            |         |    |       |     |  |  |
| DE BRG         | 6205         |    | ODE BRG    | 6203    |    |       |     |  |  |
| CC             | 010A         | SN |            |         |    |       |     |  |  |

**AC Induction Motor Performance Data**

Record # 87420

Typical performance - not guaranteed values

| Winding: 35WGG073-R006 |  |              | Type: 3528M                              |                           | Enclosure: TEFC |                       |          |
|------------------------|--|--------------|------------------------------------------|---------------------------|-----------------|-----------------------|----------|
| Nameplate Data         |  |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                 |                       |          |
| Rated Output (HP)      |  | 2            | Full Load Torque                         |                           | 5.99 LB-FT      |                       |          |
| Volts                  |  | 230/460      | Start Configuration                      |                           | direct on line  |                       |          |
| Full Load Amps         |  | 5.6/2.8      | Breakdown Torque                         |                           | 20.5 LB-FT      |                       |          |
| R.P.M.                 |  | 1760         | Pull-up Torque                           |                           | 13.8 LB-FT      |                       |          |
| Hz                     |  | 60           | Phase                                    |                           | 3               | Locked-rotor Torque   | 15 LB-FT |
| NEMA Design Code       |  | B            | KVA Code                                 |                           | L               | Starting Current      | 22.5 A   |
| Service Factor (S.F.)  |  | 1            | No-load Current                          |                           | 1.62 A          |                       |          |
| NEMA Nom. Eff.         |  | 86.5         | Power Factor                             |                           | 74              | Line-line Res. @ 25°C | 9.54 Ω   |
| Rating - Duty          |  | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                 | 64°C                  |          |
|                        |  |              |                                          | Locked-rotor Power Factor |                 | 57.9                  |          |
|                        |  |              |                                          | Rotor inertia             |                 | 0.202 lb-ft²          |          |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 35   | 55   | 68   | 76   | 81   | 84   |
| Efficiency      | 78.2 | 85.3 | 86.8 | 86.5 | 85.4 | 83.6 |
| Speed           | 1791 | 1782 | 1771 | 1760 | 1748 | 1734 |
| Line amperes    | 1.71 | 1.97 | 2.34 | 2.82 | 3.36 | 3.97 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG073

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

TORQUES (LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5





