



---

# Customer information packet

## CZDNM3556

1HP, 1170RPM, 3PH, 60HZ, 56C, 3532M, TENV, F1, N

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TENV                                   |
| Frame                          | 56C                                    |
| Frame Material                 | Steel                                  |
| Frequency                      | 60.00 Hz                               |
| Haz Area Class and Group       | None                                   |
| Haz Area Division              | Not Applicable                         |
| Motor Letter Type              | Three Phase                            |
| Output @ Frequency             | 1.000 HP @ 60 HZ                       |
| Phase                          | 3                                      |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| Agency Approvals               | CSA EEV<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              | 1.900 A @ 460.0 V<br>3.800 A @ 230.0 V |
| Design Code                    | B                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 82.5 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 1.9 a                                  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 35E6689    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG187   |
| Layout       | 35LYE6689  |
| Eff. date    | 05-21-2025 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 04-29-2025 |

|                               |                            |
|-------------------------------|----------------------------|
| 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 Lead Quantity/Wire Size | 9 @ 18 AWG                 |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3532M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 6                          |
| Overall Length                | 15.72 IN                   |
| Power Factor                  | 61                         |
| Product Family                | General Purpose            |
| Pulley End Bearing Type       | Sealed Bearing             |
| Pulley Face Code              | C-Face                     |
| Pulley Shaft Indicator        | Standard                   |
| Rodent Screen                 | None                       |
| RoHS Status                   | ROHS NON-COMPLIANT         |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 0.875 IN                   |
| Shaft Ground Indicator        | 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      | Normally Closed Thermostat |
| Vibration Sensor Indicator    | No Vibration Sensor        |
| Winding Thermal 1             | None                       |
| Winding Thermal 2             | None                       |

## Nameplate

| NP3943L        |                     |            |           |         |
|----------------|---------------------|------------|-----------|---------|
| CAT.NO.        | CZDNM3556           |            |           |         |
| SPEC.          | 35E6689G187Z1       |            |           |         |
| FRAME          | 56C                 | H.P.       | 1 TE      |         |
| VOLTS          | 230/460 ENCL TENV   |            |           |         |
| MAG. CUR.      | 2.7/1.35            |            | F.L. AMPS | 3.8/1.9 |
| R.P.M.         | 1170                | R.P.M. MAX |           | 1800    |
| HZ.            | 60                  | PH.        | 3         | CLASS H |
| SER.F.         | 1.00                | SL HZ      | 1.5       |         |
| NEMA NOM. EFF. | 82.5                | WK2        | 0.232     |         |
| RATING         | 40C AMB-CONT        |            |           |         |
| DE             | 6205                | ODE        | 6203      |         |
| CC             | 010A                | SN         |           |         |
|                | 1000:1 CT 1.5:1 CHP |            |           |         |
|                | 1.15 SF ON SINEWAVE |            |           |         |

## AC Induction Motor Performance Data

Record # 108111

Typical performance - not guaranteed values

| Winding: 35WGG187-R006 |    |         | Type: 3532M  |                                          | Enclosure: TENV       |                           |              |
|------------------------|----|---------|--------------|------------------------------------------|-----------------------|---------------------------|--------------|
| Nameplate Data         |    |         |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                           |              |
| Rated Output (HP)      |    | 1       |              | Full Load Torque                         |                       | 4.5 LB-FT                 |              |
| Volts                  |    | 230/460 |              | Start Configuration                      |                       | direct on line            |              |
| Full Load Amps         |    | 3.8/1.9 |              | Breakdown Torque                         |                       | 18.8 LB-FT                |              |
| R.P.M.                 |    | 1170    |              | Pull-up Torque                           |                       | 10.3 LB-FT                |              |
| Hz                     | 60 | Phase   | 3            | Locked-rotor Torque                      |                       | 12 LB-FT                  |              |
| NEMA Design Code       |    | B       |              | KVA Code                                 | L                     | Starting Current          | 12.4 A       |
| Service Factor (S.F.)  |    | 1.15    |              | No-load Current                          |                       | 1.35 A                    |              |
| NEMA Nom. Eff.         |    | 82.5    | Power Factor | 61                                       | Line-line Res. @ 25°C |                           | 14.7 Ω       |
| Rating - Duty          |    | 40C     |              | AMB-CONT                                 |                       | Temp. Rise @ Rated Load   | 79°C         |
| S.F. Amps              |    |         |              |                                          |                       | Temp. Rise @ S.F. Load    | 91°C         |
|                        |    |         |              |                                          |                       | Locked-rotor Power Factor | 46           |
|                        |    |         |              |                                          |                       | Rotor inertia             | 0.232 LB-FT2 |

## Load Characteristics 460 V, 60 Hz, 1 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 26   | 40   | 52   | 61   | 68   | 72   | 65   |
| Efficiency      | 67.3 | 78.2 | 81.7 | 82.5 | 82.1 | 81   | 82.3 |
| Speed           | 1194 | 1188 | 1182 | 1175 | 1167 | 1159 | 1170 |
| Line amperes    | 1.38 | 1.48 | 1.65 | 1.86 | 2.11 | 2.4  | 2.01 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG187

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1170 RPM 460 V 3532M

TORQUES (LB-FT): PO=18.8 PU=10.3 LR=12 LRA=12.4





