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# Customer information packet

## 35E5752L288G1

2HP, 3480RPM, 3PH, 60HZ, 56J, 3546M, TENV, F1, N

Class - None

Division - Not Applicable

## Specifications

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TENV                                   |
| Frame                          | 56J                                    |
| 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  | 3600 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| Agency Approvals               | UR<br>CSA EEV<br>NEMA PREMIUM          |
| Ambient Temperature            | 40 °C                                  |
| Auxillary Box                  | No Auxillary Box                       |
| Auxillary Box Lead Termination | None                                   |
| Base Indicator                 | Rigid                                  |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                |
| Blower                         | None                                   |
| Current @ Voltage              | 4.800 A @ 230.0 V<br>2.400 A @ 460.0 V |
| Design Code                    | B                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 88.5 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 2.4 a                                  |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  | 35E5752    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGL288   |
| Layout       | 35LYE5752  |
| Eff. date    | 08-14-2023 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 03-09-2022 |

|                               |                        |
|-------------------------------|------------------------|
| Insulation Class              | H                      |
| Inverter Code                 | Inverter Ready         |
| KVA Code                      | N                      |
| Lifting Lugs                  | No Lifting Lugs        |
| Locked Bearing Indicator      | Locked Bearing         |
| Motor Finish                  | UNPAINTED              |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG             |
| Motor Lead Termination        | Flying Leads           |
| Motor Standards               | NEMA                   |
| Motor Type                    | 3546M                  |
| Mounting Arrangement          | F1                     |
| Number of Poles               | 2                      |
| Overall Length                | 15.54 IN               |
| Power Factor                  | 89                     |
| 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                | 1.25                   |
| Shaft Diameter                | 0.625 IN               |
| Shaft Ground Indicator        | No Shaft Grounding     |
| Shaft Rotation                | Reversible             |
| Shaft Slinger Indicator       | No Slinger             |
| Speed                         | 3480 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 #       |               |         |         |      |    | WT            | 61   | LBS   |      |       |      |  |  |
| SPEC        | 35E5752L288G1 |         |         |      |    | ENCL          | TENV |       |      |       |      |  |  |
| SER #       |               |         |         |      |    | CC            | 010A | IP    | 69   |       |      |  |  |
| HP          | 2             | MAG CUR |         |      |    | 1.7/.85       |      |       |      |       |      |  |  |
| VOLTS       | 230/460       |         |         |      |    | NEMA NOM. EFF |      |       |      |       | 88.5 |  |  |
| AMPS        | 4.8/2.4       |         |         |      |    |               | PF   | 89    |      |       |      |  |  |
| RATING      | 40C AMB-CONT  |         |         |      |    |               |      |       |      |       |      |  |  |
| RPM         | 3480          |         |         |      |    | MAX RPM       |      |       | 5400 |       |      |  |  |
| FRAME       | 56J           | HZ      | 60      | CODE |    |               | N    | CLASS |      | H     |      |  |  |
| SER.F.      | 1.25          | SF AMP  | 5.8/2.9 |      |    |               | 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           | 0.127   | CT      | 15   | TO | 60            | 4:1  |       |      |       |      |  |  |
| ID LOGO     | SL HZ         | 2       | VT      | 3    | TO | 60            | 20:1 |       |      |       |      |  |  |
|             |               |         |         |      |    |               |      |       |      |       |      |  |  |
|             |               |         |         |      |    |               |      |       |      |       |      |  |  |
|             |               |         |         |      |    |               |      |       |      |       |      |  |  |
|             |               |         |         |      |    |               |      |       |      |       |      |  |  |
|             |               |         |         |      |    |               | QR   |       |      |       |      |  |  |
| YR          |               |         |         |      |    |               |      |       |      |       |      |  |  |

## AC Induction Motor Performance Data

Record # 92784

Typical performance - not guaranteed values

| Winding: 35WGL288-R005 |    |         | Type: 3546M                              |                     | Enclosure: TENV  |                           |        |              |
|------------------------|----|---------|------------------------------------------|---------------------|------------------|---------------------------|--------|--------------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                  |                           |        |              |
| Rated Output (HP)      |    | 2       | Full Load Torque                         |                     | 3.04 LB-FT       |                           |        |              |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line   |                           |        |              |
| Full Load Amps         |    | 4.8/2.4 | Breakdown Torque                         |                     | 17.3 LB-FT       |                           |        |              |
| R.P.M.                 |    | 3480    | Pull-up Torque                           |                     | 6.8 LB-FT        |                           |        |              |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                  | 14.8 LB-FT                |        |              |
| NEMA Design Code       |    | B       | KVA Code                                 | N                   | Starting Current |                           | 29.7 A |              |
| Service Factor (S.F.)  |    | 1.25    |                                          | No-load Current     |                  | 0.876 A                   |        |              |
| NEMA Nom. Eff.         |    | 88.5    | Power Factor                             |                     | 89               | Line-line Res. @ 25°C     |        | 5.3 Ω        |
| Rating - Duty          |    | 40C     |                                          | AMB-CONT            |                  | Temp. Rise @ Rated Load   |        | 104°C        |
| S.F. Amps              |    | 5.8/2.9 |                                          |                     |                  | Temp. Rise @ S.F. Load    |        | 134°C        |
|                        |    |         |                                          |                     |                  | Locked-rotor Power Factor |        | 42.9         |
|                        |    |         |                                          |                     |                  | Rotor inertia             |        | 0.127 lb-ft² |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 54   | 76   | 85   | 89   | 92   | 93   | 92   |
| Efficiency      | 84.9 | 89.3 | 89.6 | 89.3 | 88   | 86.4 | 88   |
| Speed           | 3569 | 3541 | 3512 | 3479 | 3445 | 3407 | 3445 |
| Line amperes    | 1.06 | 1.41 | 1.86 | 2.37 | 2.92 | 3.52 | 2.92 |

ABB Motors and Mechanical Inc.

WINDING # 35WGL288

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3480 RPM 460 V 3546M

TORQUES (LB-FT): PO=17.3 PU=6.8 LR=14.8 LRA=29.7





