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# Customer information packet

## CEWDM3546-H

1HP, 1775RPM, 3PH, 60HZ, 56HC, 3522M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TENV                                                        |
| Frame                          | 56HC                                                        |
| 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  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | CSA EEV<br>UR<br>NEMA_PREMIUM<br>NEMA PREMIUM               |
| 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              | 1.700 A @ 460.0 V<br>3.300 A @ 208.0 V<br>3.400 A @ 230.0 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                                                 |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |              |
|--------------|--------------|
| Revision     | B            |
| Type         | AC           |
| Mech. spec.  |              |
| Base         |              |
| Status       | PRD/A        |
| Elec. spec.  | 35WGZ818     |
| Layout       | 35LY-000-259 |
| Eff. date    | 02-14-2024   |
| CD Diagram   | CD0005       |
| Poles        | 04           |
| Leads        | 9#18         |
| Proprietary  | False        |
| Created date | 10-28-2021   |

|                             |                     |
|-----------------------------|---------------------|
| High Voltage Full Load Amps | 1.7 a               |
| Insulation Class            | F                   |
| Inverter Code               | Inverter Ready      |
| KVA Code                    | P                   |
| Lifting Lugs                | No Lifting Lugs     |
| Locked Bearing Indicator    | No Locked Bearing   |
| Motor Lead Termination      | Flying Leads        |
| Motor Standards             | NEMA                |
| Motor Type                  | 3522M               |
| Mounting Arrangement        | F1                  |
| Number of Poles             | 4                   |
| Overall Length              | 11.91 IN            |
| Power Factor                | 66                  |
| Product Family              | Wash Down           |
| Pulley Face Code            | C-Face              |
| Rodent Screen               | None                |
| Service Factor              | 1.15                |
| Shaft Diameter              | 0.625 IN            |
| Shaft Ground Indicator      | No Shaft Grounding  |
| Shaft Rotation              | Reversible          |
| Speed                       | 1775 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

| NP1669L      |              |      |     |      |   |       |    |   |  |
|--------------|--------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | CEWDM3546-H  |      |     |      |   |       |    |   |  |
| SPEC.        | 35-0000-1386 |      |     |      |   |       |    |   |  |
| HP           | 1            |      |     |      |   |       |    |   |  |
| VOLTS        | 230/460      |      |     |      |   |       |    |   |  |
| AMP          | 3.4/1.7      |      |     |      |   |       |    |   |  |
| RPM          | 1775         |      |     |      |   |       |    |   |  |
| FRAME        | 56HC         |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.15         | CODE | P   | DES  | B | CLASS |    | F |  |
| NEMA-NOM-EFF | 85.5         | PF   | 66  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |    |   |  |
| CC           | 010A         |      |     |      |   |       |    |   |  |
| DE           | 6205         |      | ODE | 6203 |   |       |    |   |  |
| ENCL         | TENV         | SN   |     |      |   |       |    |   |  |
| BLANK        | SFA 3.6/1.8  |      |     |      |   |       |    |   |  |

**AC Induction Motor Performance Data**

Record # 89784

Typical performance - not guaranteed values

| Winding: 35WGZ818-R002 |    |           | Type: 3522M                              |                     | Enclosure: TENV         |             |        |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|-------------|--------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |             |        |
| Rated Output (HP)      |    | 1         | Full Load Torque                         |                     | 2.99 LB-FT              |             |        |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |             |        |
| Full Load Amps         |    | 3.34/1.67 | Breakdown Torque                         |                     | 16.6 LB-FT              |             |        |
| R.P.M.                 |    | 1770      | Pull-up Torque                           |                     | 7.42 LB-FT              |             |        |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 10.32 LB-FT |        |
| NEMA Design Code       |    | B         | KVA Code                                 | M                   | Starting Current        |             | 16.1 A |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 1.23 A                  |             |        |
| NEMA Nom. Eff.         |    | 85.5      | Power Factor                             | 66                  | Line-line Res. @ 25°C   |             | 14.4 Ω |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |             | 63°C   |
| S.F. Amps              |    | 3.5/1.75  | Temp. Rise @ S.F. Load                   |                     | 71°C                    |             |        |
|                        |    |           | Locked-rotor Power Factor                |                     | 60.4724                 |             |        |
|                        |    |           | Rotor inertia                            |                     | 0.159 lb-ft²            |             |        |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 27   | 43   | 56   | 66   | 73   | 78   | 72   |
| Efficiency      | 70.8 | 81.2 | 84.5 | 85.9 | 85.8 | 85.2 | 85.5 |
| Speed           | 1793 | 1786 | 1781 | 1773 | 1766 | 1758 | 1768 |
| Line amperes    | 1.25 | 1.34 | 1.49 | 1.67 | 1.87 | 2.12 | 1.75 |

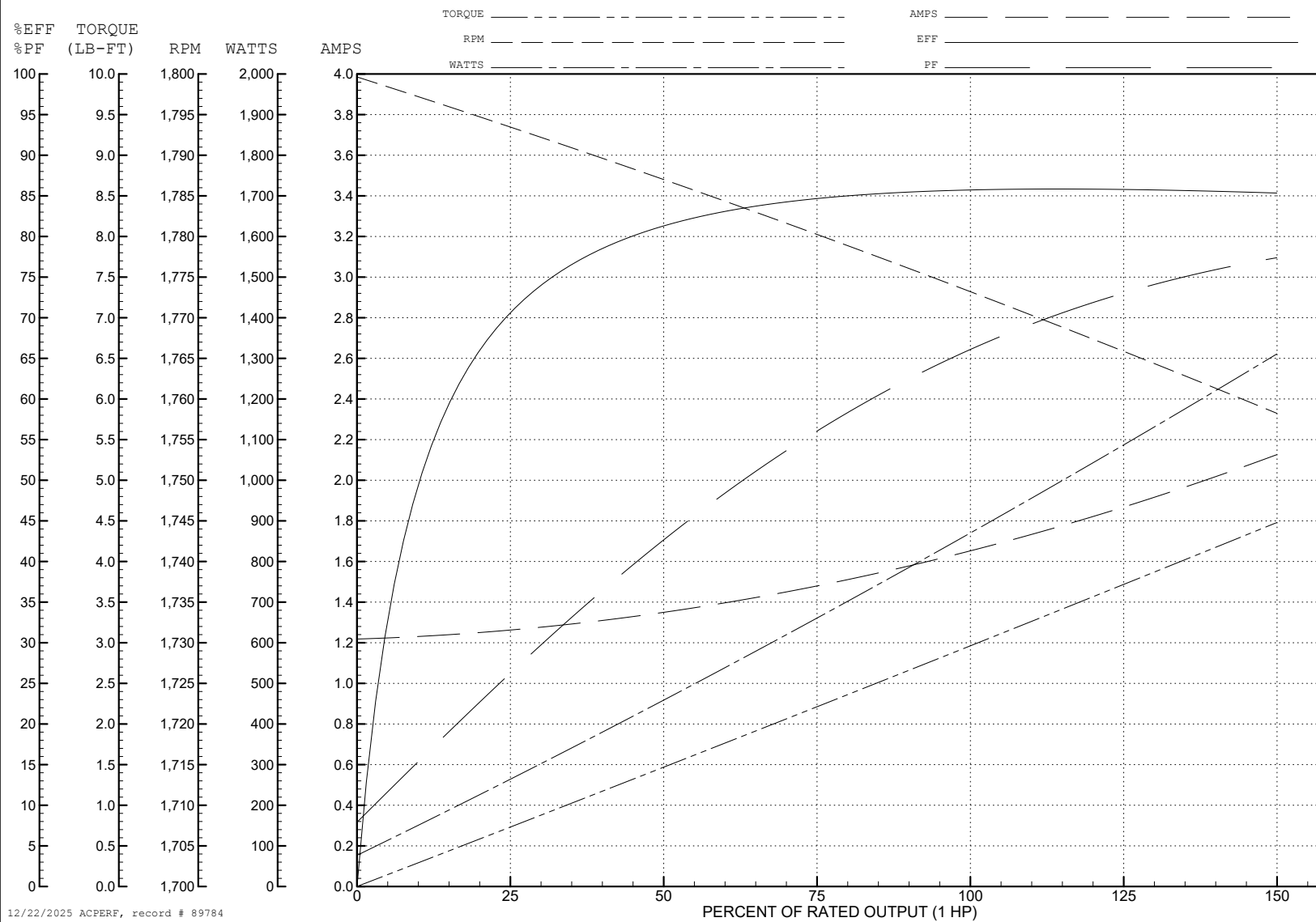
ABB Motors and Mechanical Inc.

WINDING # 35WGZ818

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 460 V 3522M

TORQUES (LB-FT): PO=16.6 PU=7.42 LR=10.32 LRA=16.1



12/22/2025 ACPERF, record # 89784

