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# Customer information packet

## CEWDM3546T-5

1HP, 1770RPM, 3PH, 60HZ, 143TC, 3522M, TENV, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Enclosure                      | TENV                                          |
| Frame                          | 143TC                                         |
| 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            | 575.0 V @ 60 HZ                               |
| Agency Approvals               | NEMA PREMIUM<br>NEMA_PREMIUM<br>UR<br>CSA EEV |
| 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              | 1.300 A @ 575.0 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                                   |
| Front Shaft Indicator          | None                                          |
| Heater Indicator               | No Heater                                     |
| High Voltage Full Load Amps    | 1.3 a                                         |
| Insulation Class               | F                                             |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 35SS592    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG198   |
| Layout       | 35LYSS592  |
| Eff. date    | 02-14-2024 |
| CD Diagram   | CD0006     |
| Poles        | 04         |
| Leads        | 3#18       |
| Proprietary  | False      |
| Created date | 03-11-2022 |

|                               |                     |
|-------------------------------|---------------------|
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | N                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Quantity/Wire Size | 3 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3522M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 12.12 IN            |
| Power Factor                  | 67                  |
| Product Family                | Wash Down           |
| Pulley End Bearing Type       | Sealed Bearing      |
| Pulley Face Code              | C-Face              |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.875 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1770 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.      | CEWDM3546T-5  |      |     |      |   |       |    |   |  |
| SPEC.        | 35SS592G198G1 |      |     |      |   |       |    |   |  |
| HP           | 1             |      |     |      |   |       |    |   |  |
| VOLTS        | 575           |      |     |      |   |       |    |   |  |
| AMP          | 1.3           |      |     |      |   |       |    |   |  |
| RPM          | 1775          |      |     |      |   |       |    |   |  |
| FRAME        | 143TC         |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.15          | CODE | M   | DES  | B | CLASS | F  |   |  |
| NEMA-NOM-EFF | 85.5          | PF   | 70  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT  |      |     |      |   |       |    |   |  |
| CC           | 010A          |      |     |      |   |       |    |   |  |
| DE           | 6205          |      | ODE | 6203 |   |       |    |   |  |
| ENCL         | TENV          | SN   |     |      |   |       |    |   |  |
| BLANK        | SFA 1.4       |      |     |      |   |       |    |   |  |

## AC Induction Motor Performance Data

Record # 82151

Typical performance - not guaranteed values

| Winding: 35WGG198-R001 |    |       | Type: 3522M                           |                     | Enclosure: TEFC           |             |              |
|------------------------|----|-------|---------------------------------------|---------------------|---------------------------|-------------|--------------|
| Nameplate Data         |    |       | 575 V, 60 Hz:<br>Single Voltage Motor |                     |                           |             |              |
| Rated Output (HP)      |    | 1     | Full Load Torque                      |                     | 2.99 LB-FT                |             |              |
| Volts                  |    | 575   | Start Configuration                   |                     | direct on line            |             |              |
| Full Load Amps         |    | 1.3   | Breakdown Torque                      |                     | 16.37 LB-FT               |             |              |
| R.P.M.                 |    | 1770  | Pull-up Torque                        |                     | 7.31 LB-FT                |             |              |
| Hz                     | 60 | Phase | 3                                     | Locked-rotor Torque |                           | 10.16 LB-FT |              |
| NEMA Design Code       |    | B     | KVA Code                              | N                   | Starting Current          |             | 12.72 A      |
| Service Factor (S.F.)  |    | 1.15  | No-load Current                       |                     | 0.972 A                   |             |              |
| NEMA Nom. Eff.         |    | 85.5  | Power Factor                          | 67                  | Line-line Res. @ 25°C     |             | 22.9 Ω       |
| Rating - Duty          |    | 40C   | AMB-CONT                              |                     | Temp. Rise @ Rated Load   |             | 63°C         |
| S.F. Amps              |    | 1.4   |                                       |                     | Temp. Rise @ S.F. Load    |             | 71°C         |
|                        |    |       |                                       |                     | Locked-rotor Power Factor |             | 59.6         |
|                        |    |       |                                       |                     | Rotor inertia             |             | 0.159 lb-ft² |

## Load Characteristics 575 V, 60 Hz, 1 HP

| % of Rated Load | 25    | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|-------|------|------|------|------|------|------|
| Power Factor    | 28    | 44   | 56   | 67   | 73   | 78   | 71   |
| Efficiency      | 71.2  | 81.2 | 84.4 | 86   | 85.7 | 85.1 | 85.8 |
| Speed           | 1793  | 1786 | 1781 | 1773 | 1766 | 1757 | 1769 |
| Line amperes    | 0.988 | 1.06 | 1.18 | 1.32 | 1.49 | 1.69 | 1.42 |

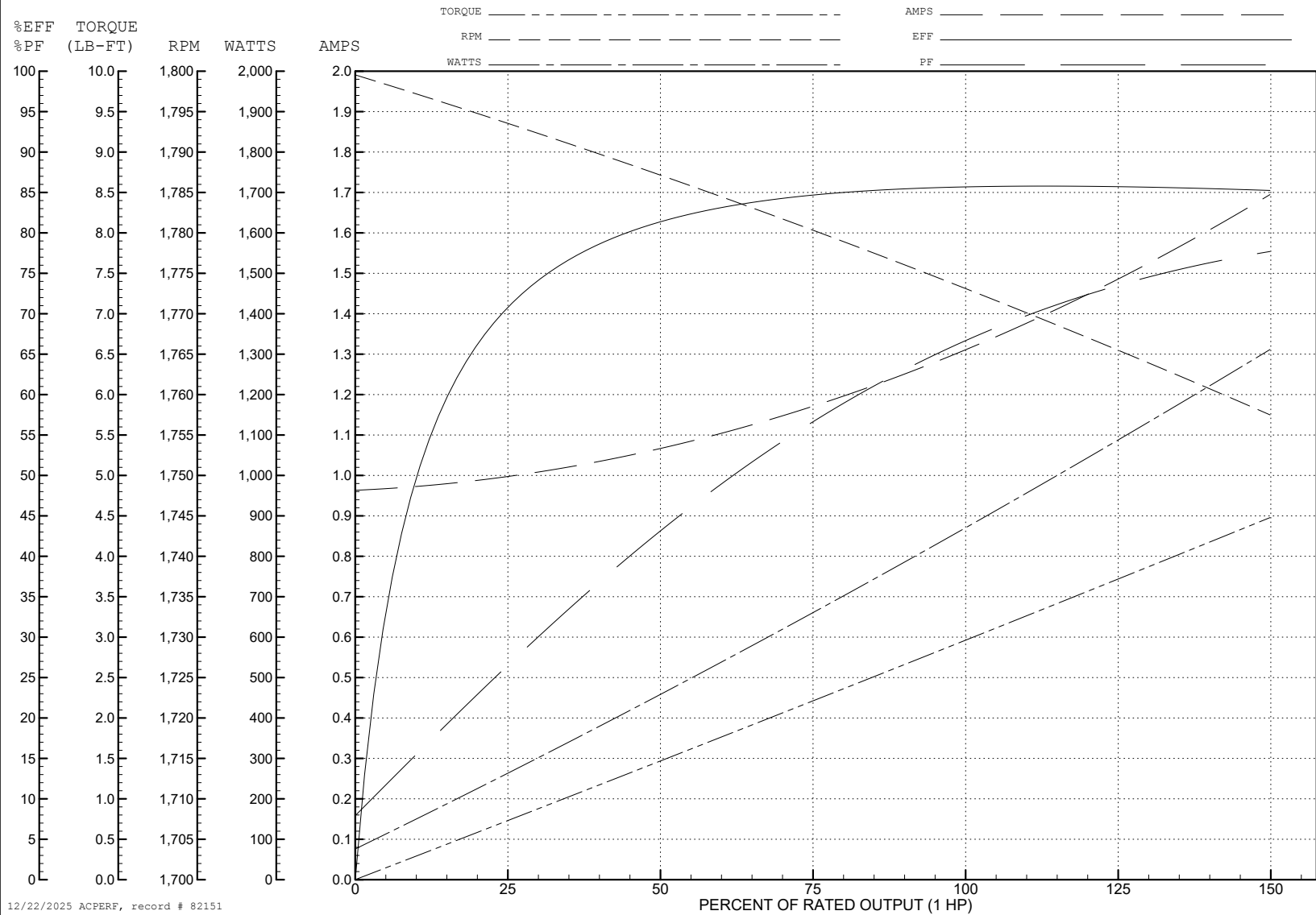
ABB Motors and Mechanical Inc.

WINDING # 35WGG198

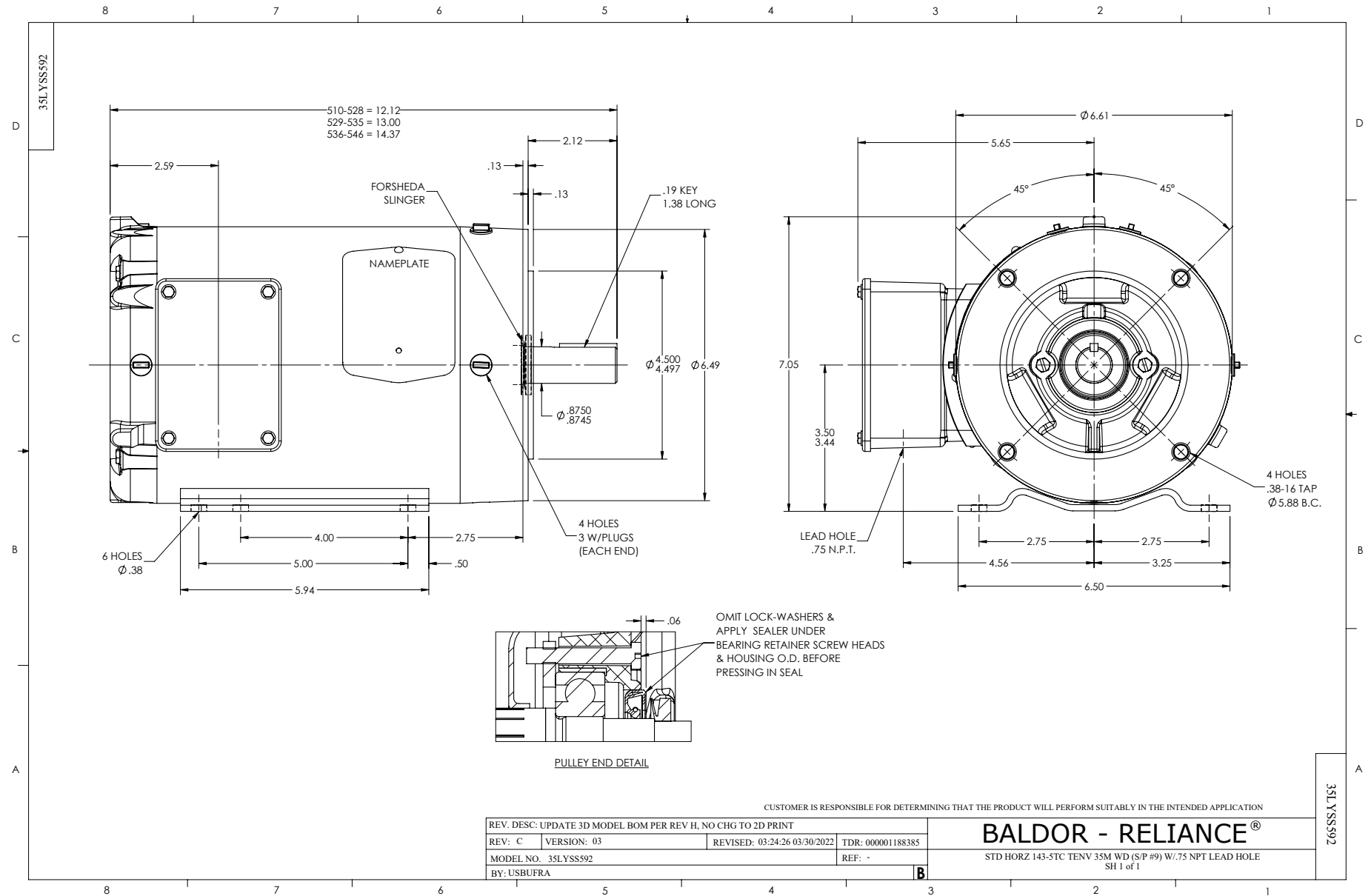
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 575 V 3522M

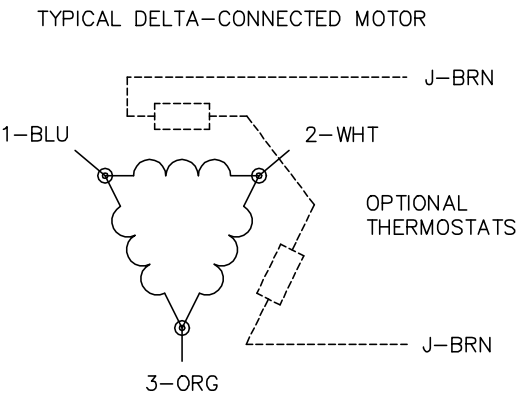
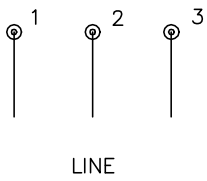
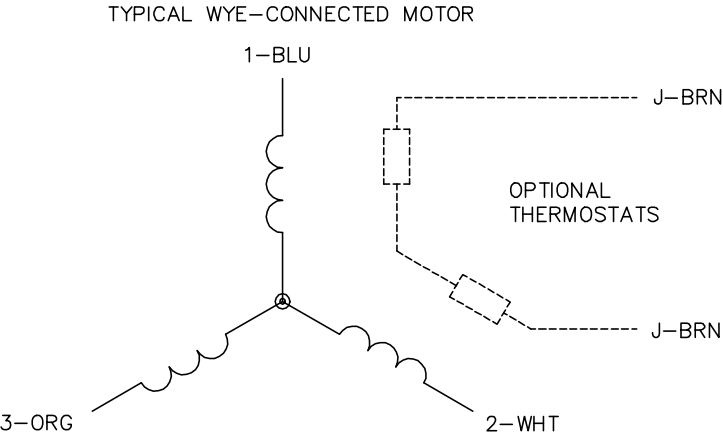
TORQUES (LB-FT): PO=16.37 PU=7.31 LR=10.16 LRA=12.72



12/22/2025 ACPERF, record # 82151



CD0006



- NOTES:
- 1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
  - 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
  - 5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

|                                   |                                |                   |
|-----------------------------------|--------------------------------|-------------------|
| REV. DESC: ADD CLASS CONN00000007 |                                |                   |
| REV. LTR: E                       | VERSION: 01                    | TDR: 000001099922 |
| FILE: \AAA\00005\141              | REVISED: 10: 24: 49 02/19/2019 | BY: ENBRIRO       |
| MTL: —                            |                                |                   |

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1