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# Customer information packet

## ECP83582T-4

1HP, 1155RPM, 3PH, 60HZ, 145T, 0526M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| Enclosure                      | TEFC                                                     |
| Frame                          | 145T                                                     |
| Frame Material                 | Iron                                                     |
| Frequency                      | 60.00 Hz                                                 |
| Haz Area Class and Group       | CL I GP A,B,C,D                                          |
| Haz Area Division              | Division II                                              |
| Motor Letter Type              | Three Phase                                              |
| Output @ Frequency             | 1.000 HP @ 60 HZ                                         |
| Phase                          | 3                                                        |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                         |
| Voltage @ Frequency            | 460.0 V @ 60 HZ                                          |
| Agency Approvals               | CCSA US<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                                                     |
| Constant Torque Speed Range    | 2.0                                                      |
| Current @ Voltage              | 1.700 A @ 460.0 V                                        |
| Design Code                    | B                                                        |
| Drip Cover                     | No Drip Cover                                            |
| Duty Rating                    | CONT                                                     |
| Efficiency @ 100% Load         | 82.5 %                                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                                |
| Enclosure Modification         | Severe Duty Features                                     |
| Feedback Device                | NO FEEDBACK                                              |
| Front Shaft Indicator          | None                                                     |

## Part detail

|              |            |
|--------------|------------|
| Revision     | E          |
| Type         | AC         |
| Mech. spec.  | 05E811     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 05WGX572   |
| Layout       | 05LYE811   |
| Eff. date    | 10-01-2025 |
| CD Diagram   | CD0006     |
| Poles        | 06         |
| Leads        | 3#18       |
| Proprietary  | False      |
| Created date | 09-09-2022 |

|                               |                                |
|-------------------------------|--------------------------------|
| Haz Area Temp Code            | T4                             |
| Heater Indicator              | No Heater                      |
| High Voltage Full Load Amps   | 1.7 a                          |
| Insulation Class              | F                              |
| Inverter Code                 | Inverter Ready                 |
| KVA Code                      | J                              |
| Lifting Lugs                  | Standard Lifting Lugs          |
| Locked Bearing Indicator      | Locked Bearing                 |
| Max Speed                     | 1800 rpm                       |
| Motor Lead Quantity/Wire Size | 3 @ 18 AWG                     |
| Motor Lead Termination        | Flying Leads                   |
| Motor Standards               | NEMA                           |
| Motor Type                    | 0526M                          |
| Mounting Arrangement          | F1                             |
| Number of Poles               | 6                              |
| Overall Length                | 12.88 IN                       |
| Power Factor                  | 67                             |
| Product Family                | Chem Process S/P 32-8 IEEE 841 |
| Pulley End Bearing Type       | Ball                           |
| Pulley Face Code              | Standard                       |
| 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       | Shaft Slinger                  |
| Speed                         | 1155 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

| NP4328          |              |      |       |      |      |         |    |   |  |  |  |
|-----------------|--------------|------|-------|------|------|---------|----|---|--|--|--|
| CAT.NO.         | ECP83582T-4  |      |       |      |      |         |    |   |  |  |  |
| SPEC.           | 05E811X572G1 |      |       |      |      |         |    |   |  |  |  |
| HP              | 1 TE         |      |       |      | IP   | 56      |    |   |  |  |  |
| VOLTS           | 460          |      |       |      |      |         |    |   |  |  |  |
| AMPS            | 1.7          |      |       |      |      |         |    |   |  |  |  |
| R.P.M.          | 1155         |      |       |      |      |         |    |   |  |  |  |
| FRAME           | 145T         |      | HZ    |      | 60   |         | PH | 3 |  |  |  |
| SER.F.          | 1.15         | CODE | J     | DES. | B    | CLASS F |    |   |  |  |  |
| RATING          | 40C AMB-CONT |      |       |      |      |         |    |   |  |  |  |
| SN              |              |      |       |      |      |         |    |   |  |  |  |
| DE              | 6205         |      | ODE   |      | 6205 |         |    |   |  |  |  |
| NEMA NOM. EFF.  | 82.5         |      | P.F.  |      | 67   |         |    |   |  |  |  |
| GUAR. MIN. EFF. | 80           |      | CC    |      | 010A |         |    |   |  |  |  |
| T. CODE         | T4           |      | TEMP= |      | 135  |         |    |   |  |  |  |

## NP3186

|              |              |                         |     |             |     |
|--------------|--------------|-------------------------|-----|-------------|-----|
| SPEC.        | 05E811X572G1 |                         |     |             |     |
| ABMA DE BRG  | 25BC02X30X   |                         |     |             |     |
| ABMA ODE BRG | 25BC02X30X   |                         |     |             |     |
| GREASE       | POLYREX EM   |                         |     |             |     |
| MOTOR WEIGHT |              | ROTOR BARS              | 27  | STATOR BARS | 36  |
| MAX. R.P.M.  | 1800         | MAX. KVAR               |     |             |     |
|              | SFA 1.86     |                         |     |             |     |
| INV.TYPE     | PWM          |                         |     |             |     |
| T=           | 135          |                         |     |             |     |
| CHP          | 60           | TO                      | 90  |             |     |
| CT           | 2.0          | TO                      | 60  |             |     |
| VT           | 0-           | TO                      | 60  |             |     |
| HTR-VOLTS    | N/A          | HTR-AMPS                | N/A |             |     |
| HTR-WATTS    |              | MAX. SPACE HEATER TEMP. |     |             | N/A |

## AC Induction Motor Performance Data

Record # 82314

Typical performance - not guaranteed values

| Winding: 05WGX572-R001 |  |      | Type: 0526M |                                       | Enclosure: TEFC |                |
|------------------------|--|------|-------------|---------------------------------------|-----------------|----------------|
| Nameplate Data         |  |      |             | 460 V, 60 Hz:<br>Single Voltage Motor |                 |                |
| Rated Output (HP)      |  | 1    |             | Full Load Torque                      |                 | 4.48 LB-FT     |
| Volts                  |  | 460  |             | Start Configuration                   |                 | direct on line |
| Full Load Amps         |  | 1.7  |             | Breakdown Torque                      |                 | 11.9 LB-FT     |
| R.P.M.                 |  | 1155 |             | Pull-up Torque                        |                 | 7.06 LB-FT     |
| Hz                     |  | 60   |             | Phase                                 |                 | 3              |
| NEMA Design Code       |  | B    |             | KVA Code                              |                 | J              |
| Service Factor (S.F.)  |  | 1.15 |             | Starting Current                      |                 | 9.06 A         |
| NEMA Nom. Eff.         |  | 82.5 |             | Power Factor                          |                 | 67             |
| Rating - Duty          |  | 40C  |             | AMB-CONT                              |                 |                |
| S.F. Amps              |  |      |             | Temp. Rise @ Rated Load               |                 | 46°C           |
|                        |  |      |             | Temp. Rise @ S.F. Load                |                 | 56°C           |
|                        |  |      |             | Locked-rotor Power Factor             |                 | 48.3           |
|                        |  |      |             | Rotor inertia                         |                 | 0.189 lb-ft²   |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 29   | 47   | 59   | 67   | 72   | 75   | 70   |
| Efficiency      | 73.6 | 81.7 | 83.5 | 83.2 | 81.6 | 79.1 | 82.2 |
| Speed           | 1193 | 1185 | 1178 | 1169 | 1159 | 1147 | 1163 |
| Line amperes    | 1.07 | 1.21 | 1.41 | 1.67 | 1.98 | 2.35 | 1.86 |

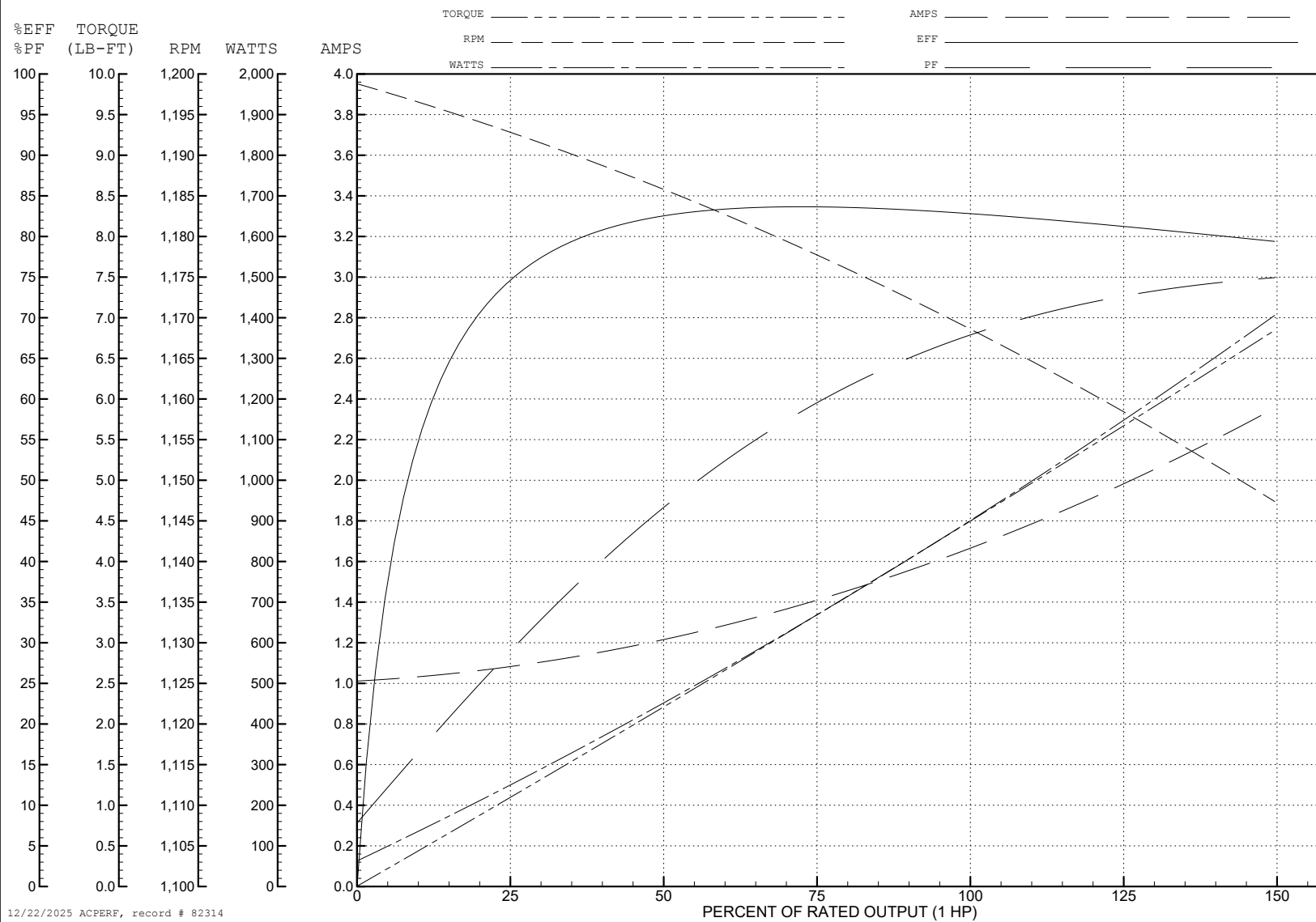
ABB Motors and Mechanical Inc.

WINDING # 05WGX572

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1155 RPM 460 V 0526M

TORQUES (LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06



**AC Induction Motor Performance Data**

Record # 99230

Typical performance - not guaranteed values

| Winding: 05WGX572-R001 |  |                   | Type: 0526M |                                       | Enclosure: TEFC |                |
|------------------------|--|-------------------|-------------|---------------------------------------|-----------------|----------------|
| Nameplate Data         |  |                   |             | 368 V, 60 Hz:<br>Single Voltage Motor |                 |                |
| Rated Output (HP)      |  | 1                 |             | Full Load Torque                      |                 | 4.56 LB-FT     |
| Volts                  |  | 368               |             | Start Configuration                   |                 | direct on line |
| Full Load Amps         |  | 1.7               |             | Breakdown Torque                      |                 | 7.6 LB-FT      |
| R.P.M.                 |  | 1155              |             | Pull-up Torque                        |                 | 4.4 LB-FT      |
| Hz                     |  | 60 Phase          |             | Locked-rotor Torque                   |                 | 5.4 LB-FT      |
| NEMA Design Code       |  | B KVA Code        |             | Starting Current                      |                 | 7.2 A          |
| Service Factor (S.F.)  |  | 1.15              |             | No-load Current                       |                 | 0.79 A         |
| NEMA Nom. Eff.         |  | 82.5 Power Factor |             | Line-line Res. @ 25°C                 |                 | 21.1 Ω         |
| Rating - Duty          |  | 40C AMB-CONT      |             | Temp. Rise @ Rated Load               |                 | 57°C           |
| S.F. Amps              |  | 1.86              |             | Temp. Rise @ S.F. Load                |                 | 78°C           |
|                        |  |                   |             | Locked-rotor Power Factor             |                 | 48.3           |
|                        |  |                   |             | Rotor inertia                         |                 | 0.189 lb-ft²   |

**Load Characteristics 368 V, 60 Hz, 1 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 41   | 61   | 71   | 75   | 76   | 69   | 76   |
| Efficiency      | 79.8 | 84   | 83.2 | 80.5 | 75.7 | 59.7 | 77.6 |
| Speed           | 1189 | 1177 | 1165 | 1149 | 1125 | 1033 | 1135 |
| Line amperes    | 0.88 | 1.13 | 1.48 | 1.93 | 2.52 | 4.09 | 2.28 |

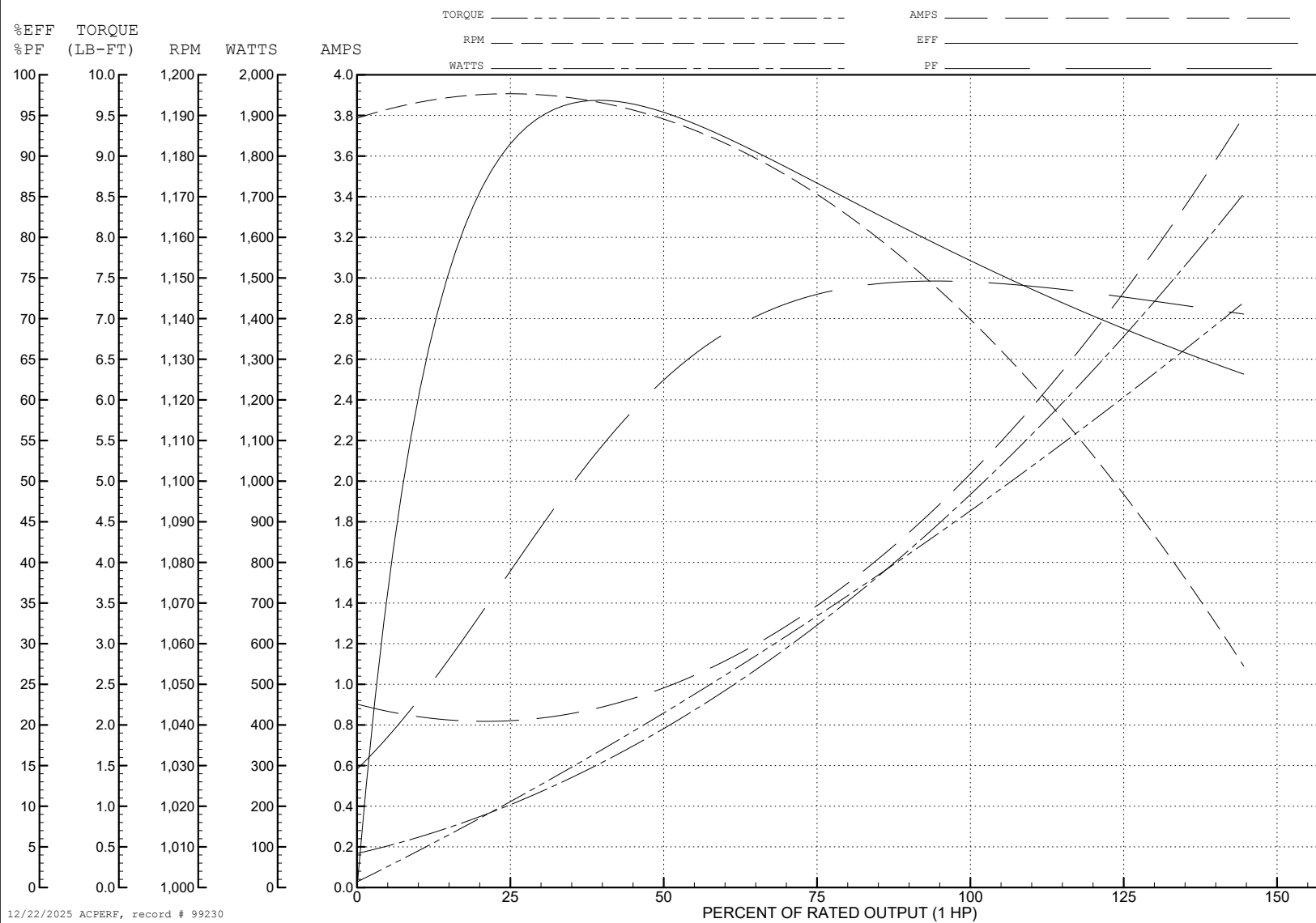
ABB Motors and Mechanical Inc.

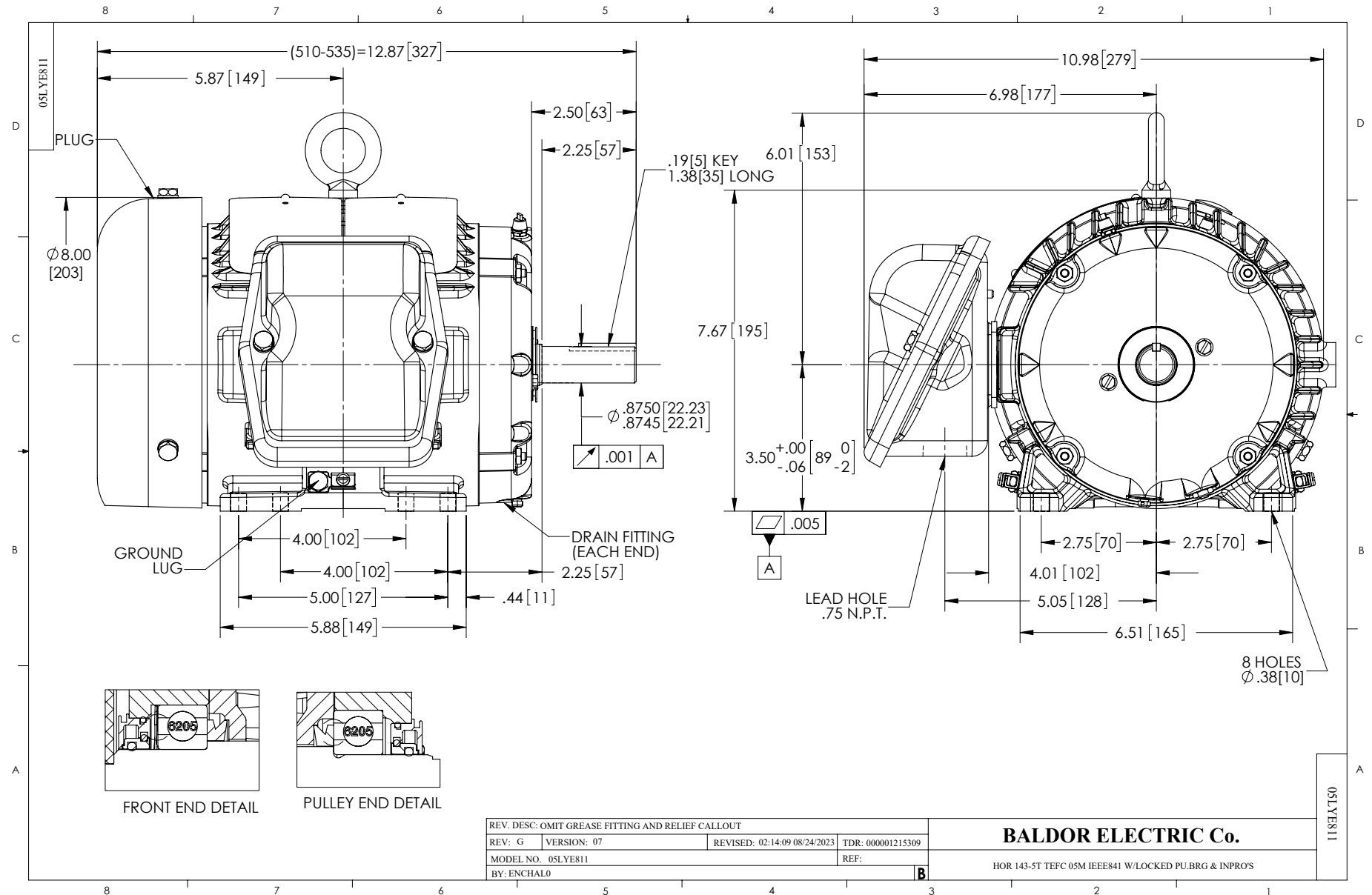
WINDING # 05WGX572

Typical performance - not guaranteed values.

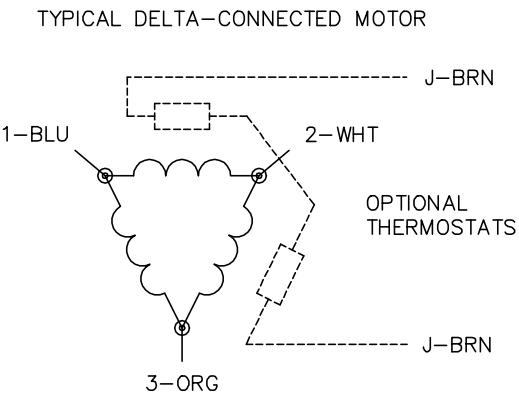
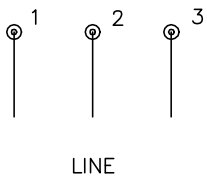
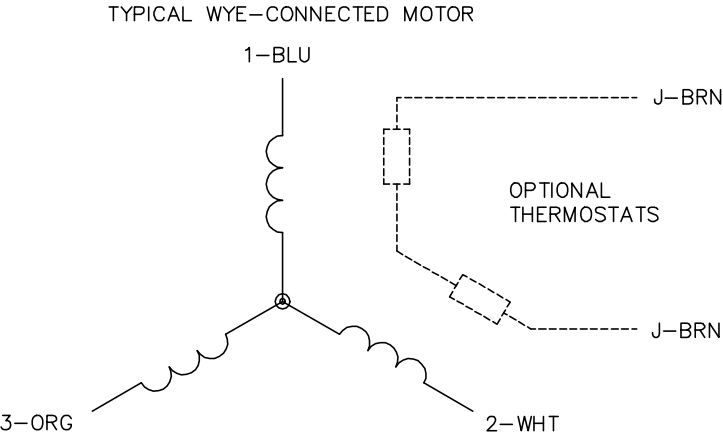
1 HP 3 PH 60 HZ 1155 RPM 368 V 0526M

TORQUES (LB-FT): PO=7.6 PU=4.4 LR=5.4 LRA=7.2





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