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# Customer information packet

## CECP4107T

25HP, 3520RPM, 3PH, 60HZ, 284TSC, 1048M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| Enclosure                      | TEFC                                                     |
| Frame                          | 284TSC                                                   |
| 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             | 25.000 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               | 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    | 6                                                        |
| Current @ Voltage              | 28.000 A @ 460.0 V<br>56.000 A @ 230.0 V                 |
| Design Code                    | B                                                        |
| Drip Cover                     | No Drip Cover                                            |
| Duty Rating                    | CONT                                                     |
| Efficiency @ 100% Load         | 91.7 %                                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                                |
| Feedback Device                | NO FEEDBACK                                              |

## Part detail

|              |            |
|--------------|------------|
| Revision     | P          |
| Type         | AC         |
| Mech. spec.  | 10H406     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 10WGZ273   |
| Layout       | 10LYH406   |
| Eff. date    | 09-29-2025 |
| CD Diagram   | CD0180     |
| Poles        | 02         |
| Leads        | 9#10       |
| Proprietary  | False      |
| Created date | 05-08-2014 |

|                               |                             |
|-------------------------------|-----------------------------|
| Front Face Code               | Standard                    |
| Front Shaft Indicator         | None                        |
| Haz Area Temp Code            | T3                          |
| Heater Indicator              | No Heater                   |
| High Voltage Full Load Amps   | 28.0 a                      |
| Insulation Class              | F                           |
| Inverter Code                 | Inverter Duty               |
| KVA Code                      | F                           |
| Lifting Lugs                  | Standard Lifting Lugs       |
| Locked Bearing Indicator      | Locked Bearing              |
| Max Speed                     | 5400 rpm                    |
| Motor Lead Exit               | Ko Box                      |
| Motor Lead Quantity/Wire Size | 9 @ 10 AWG                  |
| Motor Lead Termination        | Flying Leads                |
| Motor Standards               | NEMA                        |
| Motor Type                    | 1048M                       |
| Mounting Arrangement          | F1                          |
| Number of Poles               | 2                           |
| Overall Length                | 26.56 IN                    |
| Power Factor                  | 90                          |
| Product Family                | Super-E Chemical Processing |
| Pulley End Bearing Type       | Ball                        |
| Pulley Face Code              | C-Face                      |
| Pulley Shaft Indicator        | Standard                    |
| Rodent Screen                 | None                        |
| Service Factor                | 1.15                        |
| Shaft Diameter                | 1.625 IN                    |
| Shaft Extension Location      | Pulley End                  |
| Shaft Ground Indicator        | No Shaft Grounding          |
| Shaft Rotation                | Reversible                  |
| Shaft Slinger Indicator       | Shaft Slinger               |
| Speed                         | 3520 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

## NP3241

|            |              |                    |    |         |              |       |           |      |                         |            |        |          |    |
|------------|--------------|--------------------|----|---------|--------------|-------|-----------|------|-------------------------|------------|--------|----------|----|
| CAT.NO.    | CECP4107T    |                    |    | P/N     |              |       | ENCLOSURE |      |                         | TEFC       |        |          |    |
| SPEC.      | 10H406Z273   |                    |    | CC      | 010A         | FRAME | 284TSC    |      | S/N                     |            |        |          |    |
| HP         | 25           |                    |    |         | CLASS        | F     | HZ        | 60   | DES                     | B          |        |          |    |
| RPM        | 3520         |                    |    |         | RPM MAX      | 5400  |           | PH   | 3                       | KVA-CODE   | F      |          |    |
| VOLT       | 230/460      |                    |    |         | MOTOR WEIGHT |       |           | 515  |                         |            |        |          |    |
| AMP        | 56/28        |                    |    |         | SER.F.       | 1.15  | PF        | 90   | ODE BRG                 | 6311       | DE BRG | 6311     |    |
| RATING     | 40C AMB-CONT |                    |    |         | NEMA-NOM-EFF |       |           | 91.7 | GREASE                  | POLYREX EM |        |          |    |
|            |              |                    |    |         |              |       | INV.TYPE  |      | PWM                     |            |        |          |    |
| TEMP CODE  | T3           | INVERTER-TEMP-CODE |    |         | 200          |       |           |      |                         |            |        |          |    |
| TEMP =     | 200          | C HP FR            | 60 | C HP TO |              | 90    |           |      |                         |            |        |          |    |
| CT HZ FROM | 6            | CT HZ TO           |    | 60      |              |       |           |      |                         |            |        |          |    |
| HTR-VOLTS  | HTR-AMPS     |                    |    |         | HTR-WATTS    |       |           |      | MAX. SPACE HEATER TEMP. |            |        |          |    |
|            |              |                    |    |         |              |       |           |      | VT HZ FROM              |            | 3      | VT HZ TO | 60 |

**AC Induction Motor Performance Data**

Record # 47234

Typical performance - not guaranteed values

| Winding: 10WGZ273-R002 |    |         | Type: 1048M  |                                       | Enclosure: TEFC       |                           |             |
|------------------------|----|---------|--------------|---------------------------------------|-----------------------|---------------------------|-------------|
| Nameplate Data         |    |         |              | 460 V, 60 Hz:<br>Single Voltage Motor |                       |                           |             |
| Rated Output (HP)      |    | 25      |              | Full Load Torque                      |                       | 37.3 LB-FT                |             |
| Volts                  |    | 230/460 |              | Start Configuration                   |                       | direct on line            |             |
| Full Load Amps         |    | 56/28   |              | Breakdown Torque                      |                       | 103 LB-FT                 |             |
| R.P.M.                 |    | 3520    |              | Pull-up Torque                        |                       | 42.1 LB-FT                |             |
| Hz                     | 60 | Phase   | 3            | Locked-rotor Torque                   |                       | 54 LB-FT                  |             |
| NEMA Design Code       |    | B       |              | KVA Code                              | F                     | Starting Current          | 171 A       |
| Service Factor (S.F.)  |    | 1.15    |              | No-load Current                       |                       | 6.99 A                    |             |
| NEMA Nom. Eff.         |    | 91.7    | Power Factor | 90                                    | Line-line Res. @ 25°C |                           | 0.295 Ω     |
| Rating - Duty          |    | 40C     |              | AMB-CONT                              |                       | Temp. Rise @ Rated Load   | 57°C        |
| S.F. Amps              |    |         |              |                                       |                       | Temp. Rise @ S.F. Load    | 72°C        |
|                        |    |         |              |                                       |                       | Locked-rotor Power Factor | 23.3        |
|                        |    |         |              |                                       |                       | Rotor inertia             | 2.06 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 25 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 69   | 83   | 88   | 90   | 90   | 90   | 90   |
| Efficiency      | 87.7 | 91.6 | 92.1 | 91.7 | 90.8 | 89.7 | 91.3 |
| Speed           | 3580 | 3563 | 3543 | 3521 | 3497 | 3470 | 3507 |
| Line amperes    | 10.1 | 15.4 | 21.7 | 28.3 | 35.7 | 43.5 | 32.7 |

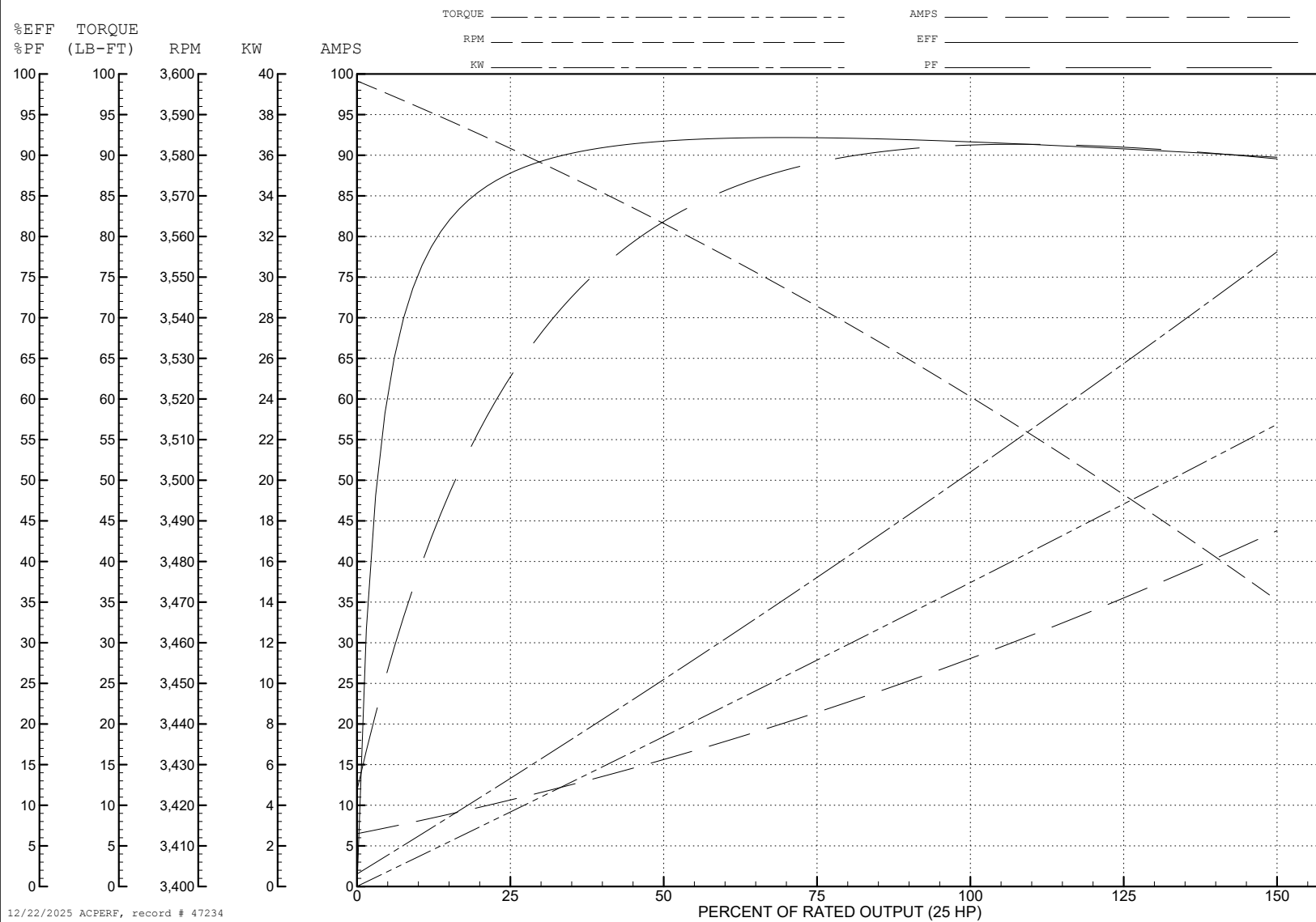
ABB Motors and Mechanical Inc.

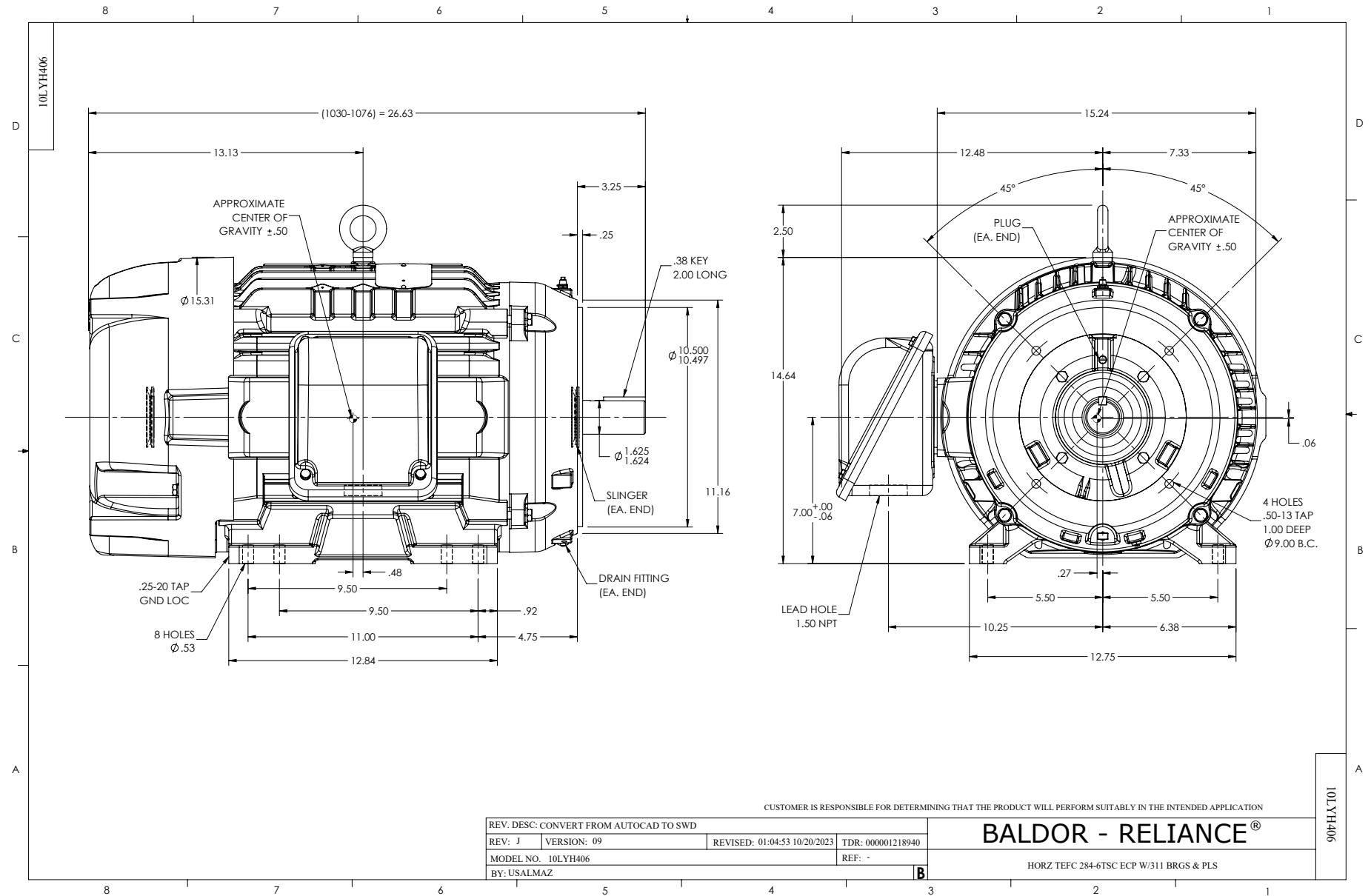
WINDING # 10WGZ273

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3520 RPM 460 V 1048M

TORQUES (LB-FT): PO=103 PU=42.1 LR=54 LRA=171





CD0180

LOW VOLTAGE  
(2D)HIGH VOLTAGE  
(1D)

## NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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