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# Customer information packet

## EGDM4110T

40HP, 1775RPM, 3PH, 60HZ, 324TZ, 1254M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                 |
|--------------------------------|-----------------------------------------------------------------|
| Enclosure                      | TEFC                                                            |
| Frame                          | 324TZ                                                           |
| Frame Material                 | Iron                                                            |
| Frequency                      | 60.00 Hz                                                        |
| Haz Area Class and Group       | None                                                            |
| Haz Area Division              | Not Applicable                                                  |
| Motor Letter Type              | Three Phase                                                     |
| Output @ Frequency             | 40.000 HP @ 60 HZ                                               |
| Phase                          | 3                                                               |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                                |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                              |
| Agency Approvals               | CSA<br>CSA EEV<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                                                            |
| Current @ Voltage              | 48.000 A @ 460.0 V<br>96.000 A @ 230.0 V<br>102.000 A @ 208.0 V |
| Design Code                    | A                                                               |
| Drip Cover                     | No Drip Cover                                                   |
| Duty Rating                    | CONT                                                            |
| Efficiency @ 100% Load         | 94.1 %                                                          |
| Electrically Isolated Bearing  | Not Electrically Isolated                                       |
| Feedback Device                | NO FEEDBACK                                                     |
| Front Face Code                | Standard                                                        |
| Front Shaft Indicator          | None                                                            |

## Part detail

|              |                |
|--------------|----------------|
| Revision     | P              |
| Type         | AC             |
| Mech. spec.  | 12G986         |
| Base         |                |
| Status       | PRD/A          |
| Elec. spec.  | 12WGY276       |
| Layout       | 12LYG986       |
| Eff. date    | 11-27-2024     |
| CD Diagram   | CD0180         |
| Poles        | 04             |
| Leads        | 9#8 72" long Y |
| Proprietary  | False          |
| Created date | 04-22-2015     |

|                               |                       |
|-------------------------------|-----------------------|
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 48.0 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | H                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 9 @ 8 AWG             |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 1254M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 31.28 IN              |
| Power Factor                  | 82                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Sealed Bearing        |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 2.125 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 1775 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Bearing      | NONE (OLD)            |
| Thermal Device - Winding      | None                  |
| Vibration Sensor Indicator    | No Vibration Sensor   |
| Winding Thermal 1             | None                  |

|                   |      |
|-------------------|------|
| Winding Thermal 2 | None |
|-------------------|------|

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## Nameplate

| NP3126L      |              |  |      |      |     |   |    |    |   |  |  |
|--------------|--------------|--|------|------|-----|---|----|----|---|--|--|
| CAT.NO.      | EGDM4110T    |  |      |      |     |   |    |    |   |  |  |
| SPEC.        | 12G986Y276G1 |  |      |      |     |   |    |    |   |  |  |
| HP           | 40           |  |      |      |     |   |    |    |   |  |  |
| VOLTS        | 230/460      |  |      |      |     |   |    |    |   |  |  |
| AMP          | 96/48        |  |      |      |     |   |    |    |   |  |  |
| RPM          | 1775         |  |      |      |     |   |    |    |   |  |  |
| FRAME        | 324TZ        |  | HZ   | 60   |     |   |    | PH | 3 |  |  |
| SER.F.       | 1.15         |  | CODE | H    | DES | A | CL | F  |   |  |  |
| NEMA-NOM-EFF | 94.1         |  | PF   | 82   |     |   |    |    |   |  |  |
| RATING       | 40C AMB-CONT |  |      |      |     |   |    |    |   |  |  |
| CC           | 010A         |  |      |      |     |   |    |    |   |  |  |
| DE           | 6312         |  | ODE  | 6311 |     |   |    |    |   |  |  |
| ENCL         | TEFC         |  | SN   |      |     |   |    |    |   |  |  |
|              | SFA 109/54.5 |  |      |      |     |   |    |    |   |  |  |

## AC Induction Motor Performance Data

Record # 31673

Typical performance - not guaranteed values

| Winding: 12WGY276-R001 |  |              |  | Type: 1254M                              |  | Enclosure: TEFC     |  |                       |  |        |  |
|------------------------|--|--------------|--|------------------------------------------|--|---------------------|--|-----------------------|--|--------|--|
| Nameplate Data         |  |              |  | 460 V, 60 Hz:<br>High Voltage Connection |  |                     |  |                       |  |        |  |
| Rated Output (HP)      |  | 40           |  | Full Load Torque                         |  | 119 LB-FT           |  |                       |  |        |  |
| Volts                  |  | 230/460      |  | Start Configuration                      |  | direct on line      |  |                       |  |        |  |
| Full Load Amps         |  | 96/48        |  | Breakdown Torque                         |  | 396 LB-FT           |  |                       |  |        |  |
| R.P.M.                 |  | 1775         |  | Pull-up Torque                           |  | 198 LB-FT           |  |                       |  |        |  |
| Hz                     |  | 60 Phase     |  | 3                                        |  | Locked-rotor Torque |  | 222 LB-FT             |  |        |  |
| NEMA Design Code       |  | A            |  | KVA Code                                 |  | H                   |  | Starting Current      |  | 347 A  |  |
| Service Factor (S.F.)  |  | 1.15         |  | No-load Current                          |  | 21.03 A             |  |                       |  |        |  |
| NEMA Nom. Eff.         |  | 94.1         |  | Power Factor                             |  | 82                  |  | Line-line Res. @ 25°C |  | 0.15 Ω |  |
| Rating - Duty          |  | 40C AMB-CONT |  | Temp. Rise @ Rated Load                  |  | 54°C                |  |                       |  |        |  |
| S.F. Amps              |  |              |  | Temp. Rise @ S.F. Load                   |  | 66°C                |  |                       |  |        |  |
|                        |  |              |  | Locked-rotor Power Factor                |  | 27.1                |  |                       |  |        |  |
|                        |  |              |  | Rotor inertia                            |  | 7.19 lb-ft²         |  |                       |  |        |  |

## Load Characteristics 460 V, 60 Hz, 40 HP

| % of Rated Load | 25    | 50   | 75    | 100   | 125   | 150   | S.F. |
|-----------------|-------|------|-------|-------|-------|-------|------|
| Power Factor    | 45    | 67   | 77    | 82    | 84    | 85    | 83   |
| Efficiency      | 89.8  | 93.4 | 94.1  | 94.4  | 93.9  | 93.1  | 94.1 |
| Speed           | 1794  | 1788 | 1783  | 1777  | 1771  | 1765  | 1773 |
| Line amperes    | 23.93 | 30.4 | 39.12 | 48.68 | 59.71 | 71.22 | 55.3 |

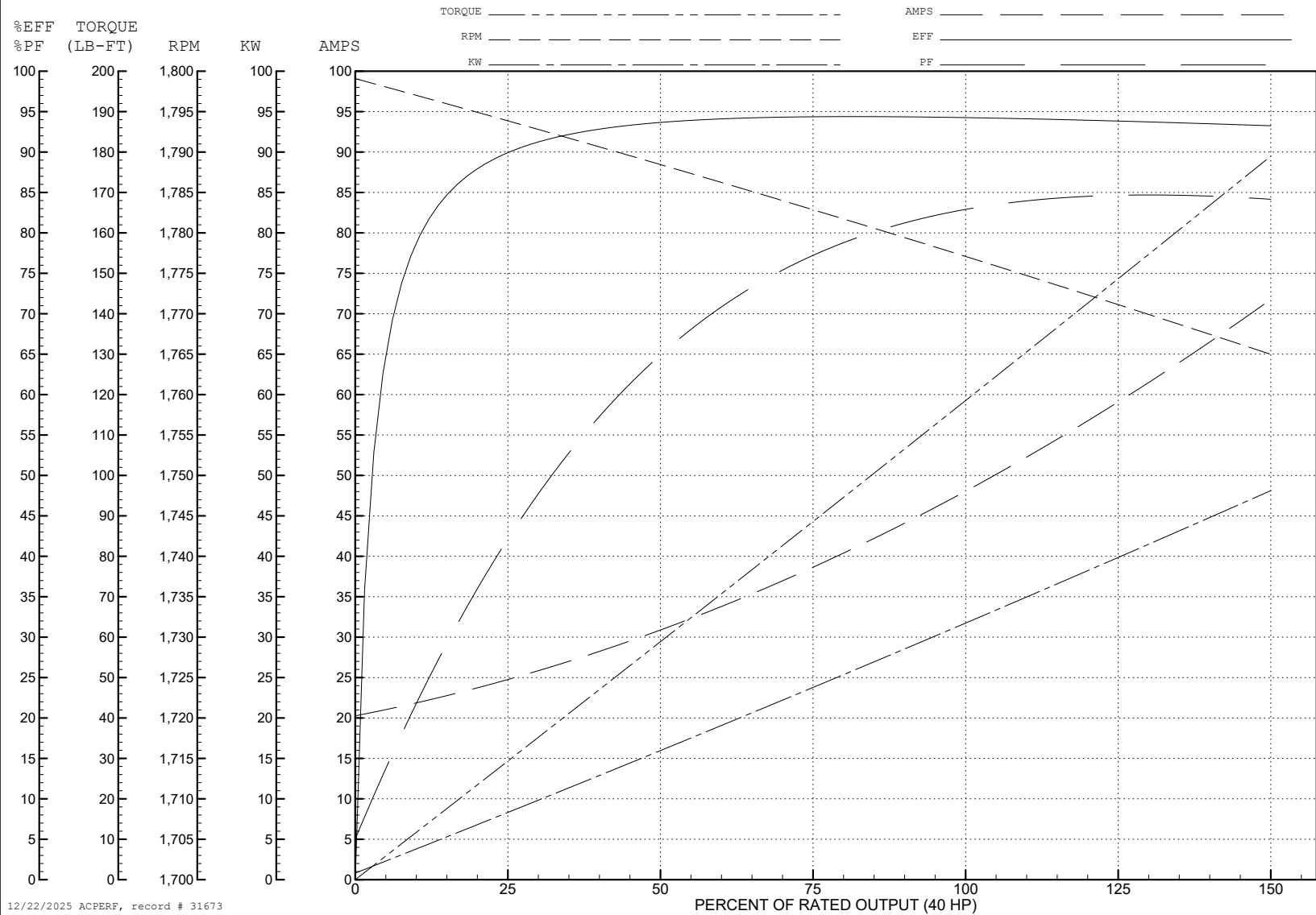
ABB Motors and Mechanical Inc.

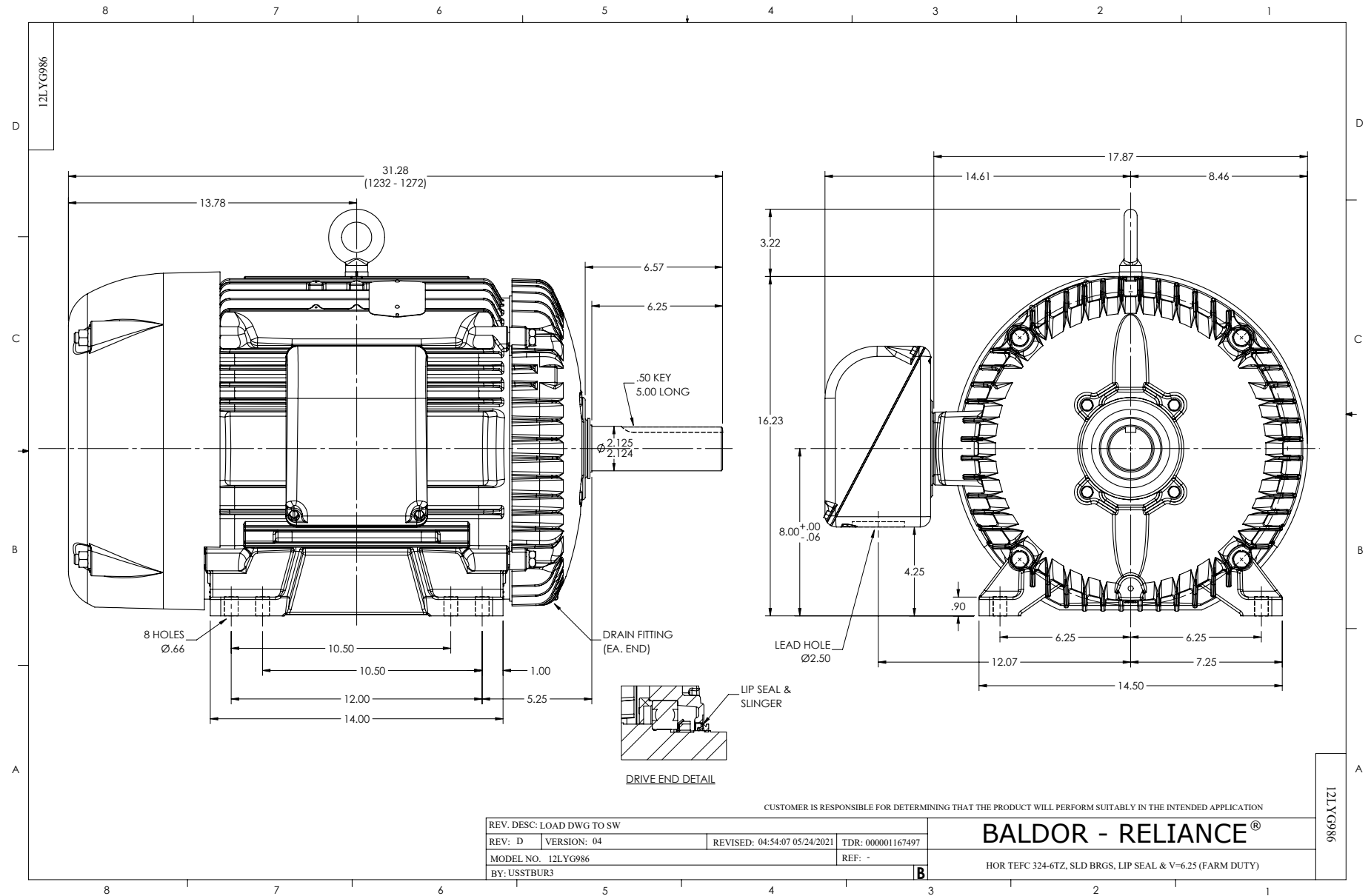
WINDING # 12WGY276

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1775 RPM 460 V 1254M

TORQUES (LB-FT): PO=396 PU=198 LR=222 LRA=347





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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