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# Customer information packet

## EJPM4115T

50HP, 1775RPM, 3PH, 60HZ, 326JP, 1272M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| Enclosure                      | TEFC                                                             |
| Frame                          | 326JP                                                            |
| 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             | 50.000 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<br>CSA EEV<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                                                             |
| Current @ Voltage              | 58.000 A @ 460.0 V<br>126.000 A @ 208.0 V<br>116.000 A @ 230.0 V |
| Design Code                    | A                                                                |
| Drip Cover                     | No Drip Cover                                                    |
| Duty Rating                    | CONT                                                             |
| Efficiency @ 100% Load         | 94.5 %                                                           |
| Electrically Isolated Bearing  | Not Electrically Isolated                                        |
| Feedback Device                | NO FEEDBACK                                                      |
| Front Shaft Indicator          | None                                                             |

## Part detail

|              |            |
|--------------|------------|
| Revision     | H          |
| Type         | AC         |
| Mech. spec.  | 12H62      |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 12WGZ279   |
| Layout       | 12LYH062   |
| Eff. date    | 11-21-2024 |
| CD Diagram   | CD0180     |
| Poles        | 04         |
| Leads        | 9#8        |
| Proprietary  | False      |
| Created date | 02-03-2021 |

|                               |                       |
|-------------------------------|-----------------------|
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 58.0 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | H                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Quantity/Wire Size | 9 @ 6 AWG             |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 1272M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 33.41 IN              |
| Power Factor                  | 85                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | C-Face                |
| Pulley Shaft Indicator        | Tapped & Key          |
| Rodent Screen                 | None                  |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.750 IN              |
| 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                  |
| Thermal Device - Winding      | None                  |
| Vibration Sensor Indicator    | No Vibration Sensor   |
| Winding Thermal 1             | None                  |
| Winding Thermal 2             | None                  |

## Nameplate

| NP3443LUA |                              |                         |                |                           |       |         |        |        |            |      |      |
|-----------|------------------------------|-------------------------|----------------|---------------------------|-------|---------|--------|--------|------------|------|------|
| CAT.NO.   | EJPM4115T                    |                         |                | CUST. P/N                 |       |         |        |        |            | ENCL | TEFC |
| SPEC.     | 12H062Z279G1                 | CC                      | 010A           | FRAME                     | 326JP | SER.NO. |        |        |            |      |      |
| HP        | 50                           |                         | CLASS          | F                         | HZ    | 60      |        |        |            |      |      |
| R.P.M.    | 1775                         |                         | PH.            | 3                         | DES.  | A       |        |        |            |      |      |
| VOLTS     | 230/460                      |                         |                | CODE                      | H     | ODE BRG | 6311   | DE BRG | 6312       |      |      |
| AMPS      | 116/58                       |                         |                |                           |       |         |        |        |            |      |      |
| RATING    | 40C AMB-CONT                 |                         | NEMA NOM. EFF. |                           |       | 94.5    | GREASE |        | POLYREX EM |      |      |
| P.F.      | 85                           | SER.F.                  | 1.15           | CT6-60H(10:1)VT3-60H(20:1 |       |         |        |        |            |      |      |
| USABLE AT | 50HZ 50HP 190/380V 139/69.5A |                         |                | SF1.0                     |       |         |        |        |            |      |      |
| VOLTS     | AMPS                         | MAX. SPACE HEATER TEMP. |                |                           |       |         |        |        |            |      |      |

## AC Induction Motor Performance Data

Record # 93227

Typical performance - not guaranteed values

| Winding: 12WGZ279-R001 |    |         |   | Type: 1272M                              |    | Enclosure: TEFC         |                       |           |
|------------------------|----|---------|---|------------------------------------------|----|-------------------------|-----------------------|-----------|
| Nameplate Data         |    |         |   | 460 V, 60 Hz:<br>High Voltage Connection |    |                         |                       |           |
| Rated Output (HP)      |    | 50      |   | Full Load Torque                         |    | 148 LB-FT               |                       |           |
| Volts                  |    | 230/460 |   | Start Configuration                      |    | direct on line          |                       |           |
| Full Load Amps         |    | 116/58  |   | Breakdown Torque                         |    | 437.3 LB-FT             |                       |           |
| R.P.M.                 |    | 1775    |   | Pull-up Torque                           |    | 223.3 LB-FT             |                       |           |
| Hz                     | 60 | Phase   | 3 | Locked-rotor Torque                      |    | 255.3 LB-FT             |                       |           |
| NEMA Design Code       |    | A       |   | KVA Code                                 | H  |                         | Starting Current      | 407.47 A  |
| Service Factor (S.F.)  |    | 1.15    |   | No-load Current                          |    | 21 A                    |                       |           |
| NEMA Nom. Eff.         |    | 94.5    |   | Power Factor                             | 85 |                         | Line-line Res. @ 25°C | 0.11287 Ω |
| Rating - Duty          |    | 40C     |   | AMB-CONT                                 |    | Temp. Rise @ Rated Load |                       | 66°C      |
| S.F. Amps              |    | 132/66  |   | Temp. Rise @ S.F. Load                   |    | 82°C                    |                       |           |
|                        |    |         |   | Locked-rotor Power Factor                |    | 26.5                    |                       |           |

## Load Characteristics 460 V, 60 Hz, 50 HP

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 51     | 73     | 82     | 85     | 87     | 87     | 86   |
| Efficiency      | 91.5   | 94.3   | 94.7   | 94.5   | 93.8   | 93     | 94.1 |
| Speed           | 1791.2 | 1786.1 | 1779.1 | 1773.3 | 1766.2 | 1758.5 | 1769 |
| Line amperes    | 25.1   | 34.1   | 45.4   | 58.2   | 72     | 87     | 66.5 |

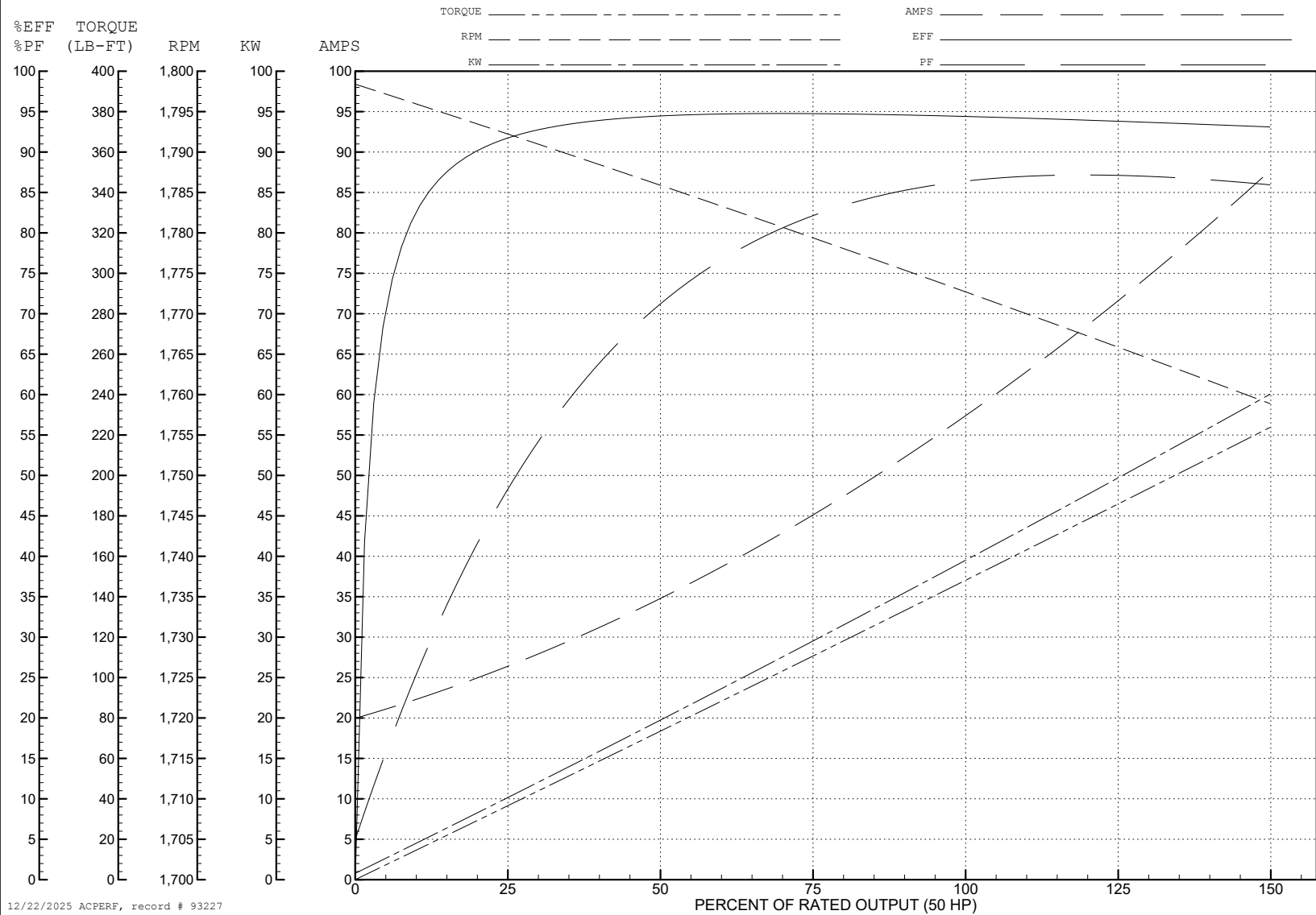
ABB Motors and Mechanical Inc.

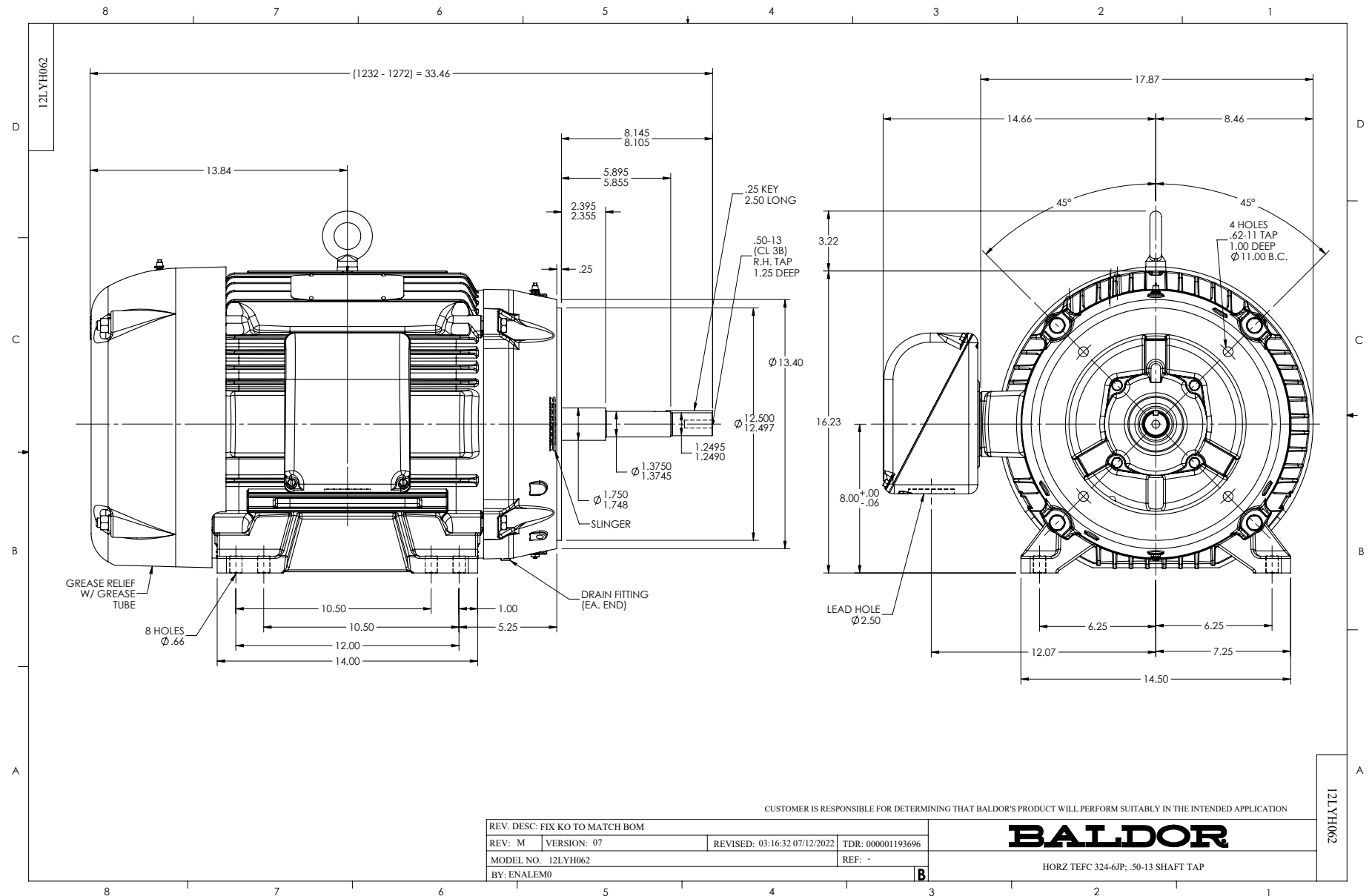
WINDING # 12WGZ279

Typical performance - not guaranteed values.

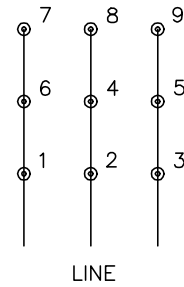
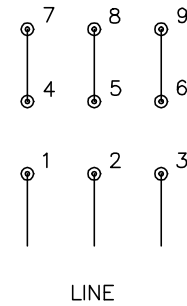
50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

TORQUES (LB-FT): PO=437.3 PU=223.3 LR=255.3 LRA=407.47





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

SH 1 of 1