ABB BALDOR RELIANCE

# Customer information packet

## EJPM4110T

40HP, 1775RPM, 3PH, 60HZ, 324JP, 1254M, TEFC, F
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 324JP |
| **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 |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | 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 |
| | 96.000 A @ 230.0 V |
| | 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** | AB |
| **Type** | AC |
| **Mech. spec.** | 12H62 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 12WGY276 |
| **Layout** | 12LYH062 |
| **Eff. date** | 05-05-2026 |
| **CD Diagram** | CD0180 |
| **Poles** | 04 |
| **Leads** | 9#8 |
| **Proprietary** | False |
| **Created date** | 04-23-2010 |

| | |
|---|---|
| **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** | 33.41 IN |
| **Power Factor** | 82 |
| **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 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 |

**Nameplate**

| NP3443LUA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EJPM4110T | | | **CUST. P/N** | | | | | | **ENCL** | TEFC |
| **SPEC.** | 12H062Y276G1 | **CC** | 010A | **FRAME** | 324JP | | **SER.NO.** | | | | |
| **HP** | 40 | | **CLASS** | F | **HZ** | 60 | | | | | |
| **R.P.M.** | 1775 | | **PH.** | 3 | **DES.** | A | | | | | |
| **VOLTS** | 230/460 | | | **CODE** | H | | **ODE BRG** | 6311 | **DE BRG** | 6312 | |
| **AMPS** | 96/48 | | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | **NEMA NOM. EFF.** | 94.1 | | | **GREASE** | POLYREX EM | | |
| **P.F.** | 82 | **SER.F.** | 1.15 | **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | |
| **USABLE AT** | 50HZ 40HP 190/380V 114/57A | | | SF1.0 | | | | | | | |
| **VOLTS** | **AMPS** | | **MAX. SPACE HEATER TEMP.** | | | | | | | | |

**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: 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. @ 25ºC** | 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 |

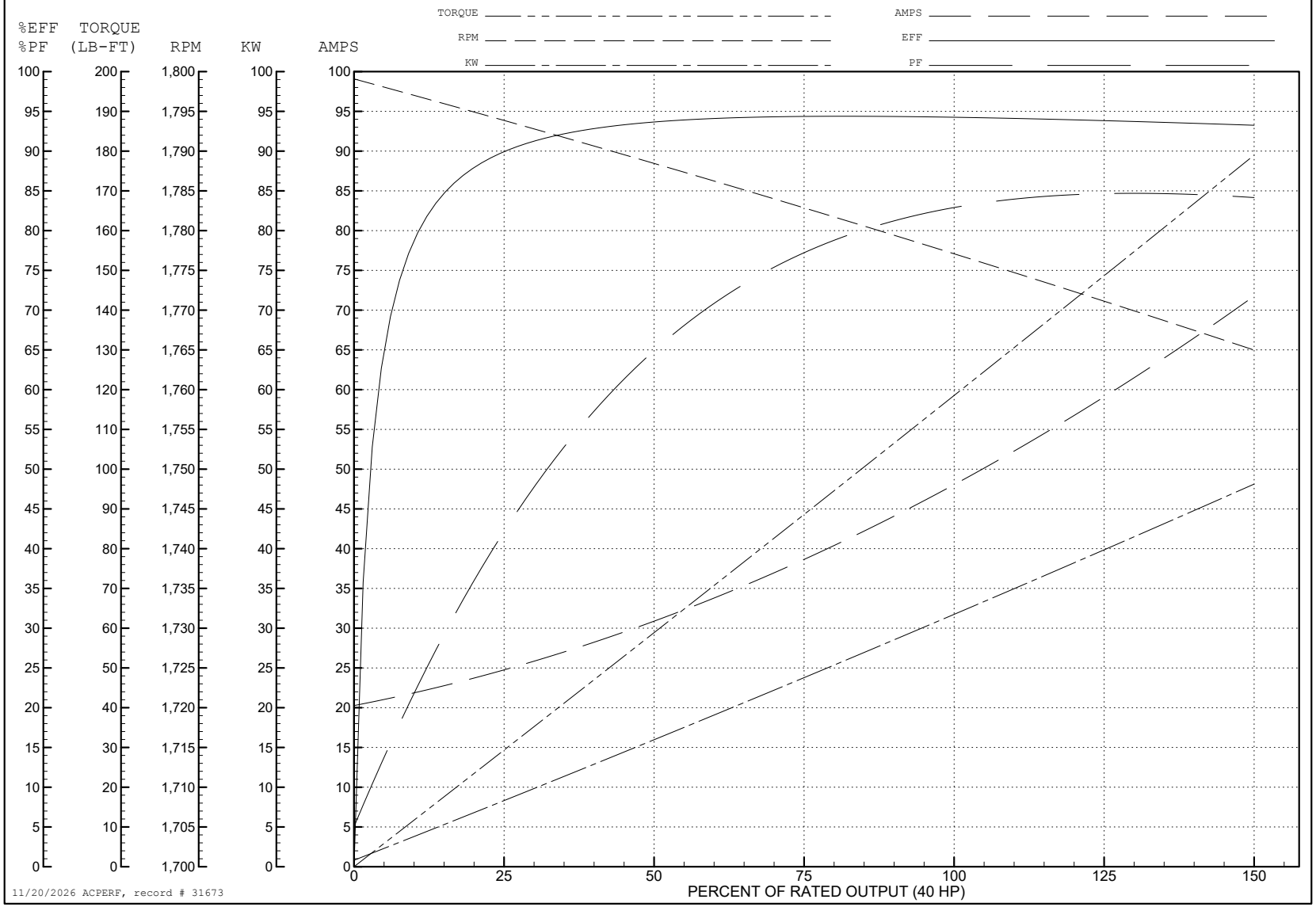
ABB Motors and Mechanical Inc.

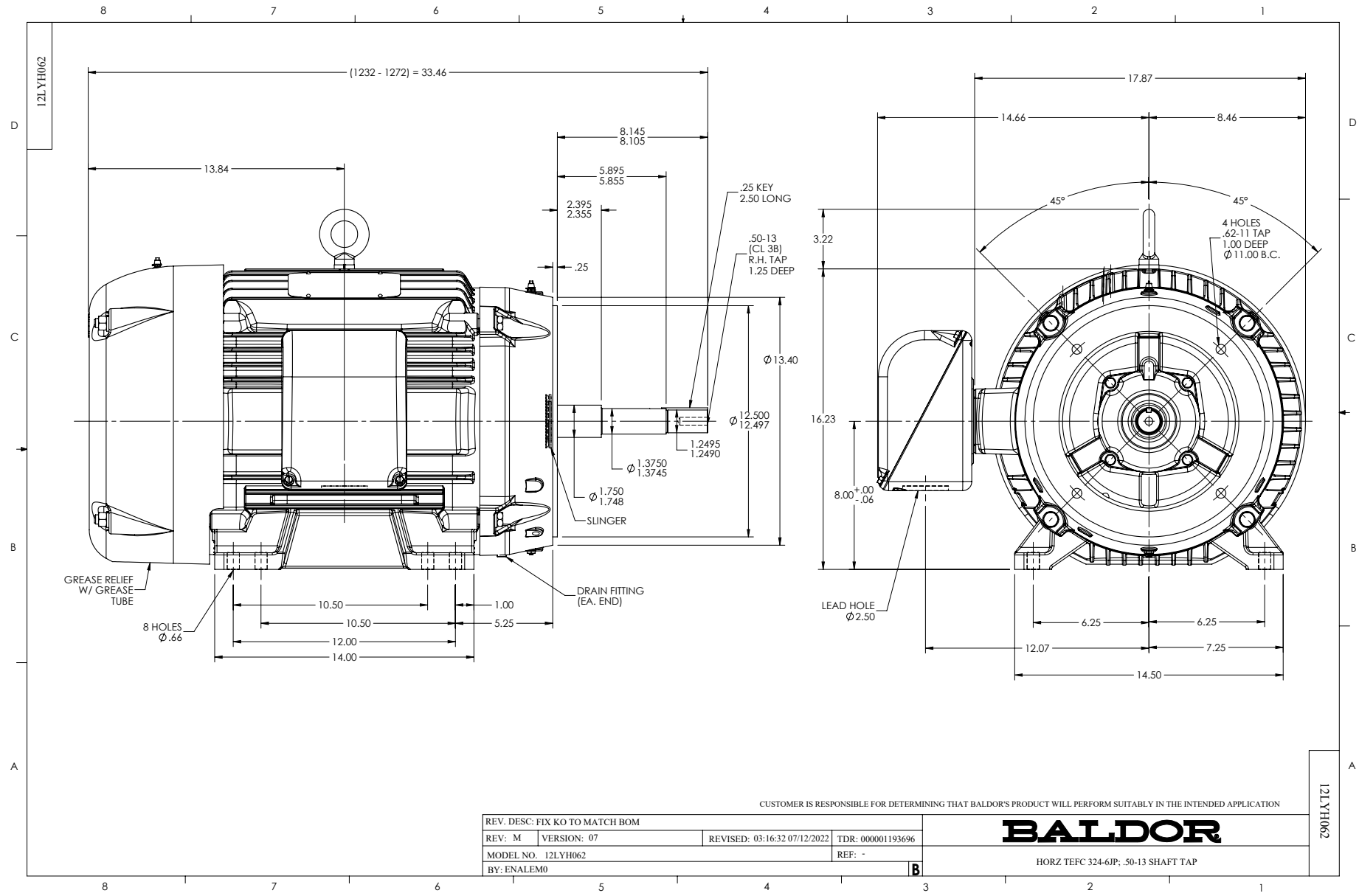
WINDING # 12WGY276

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

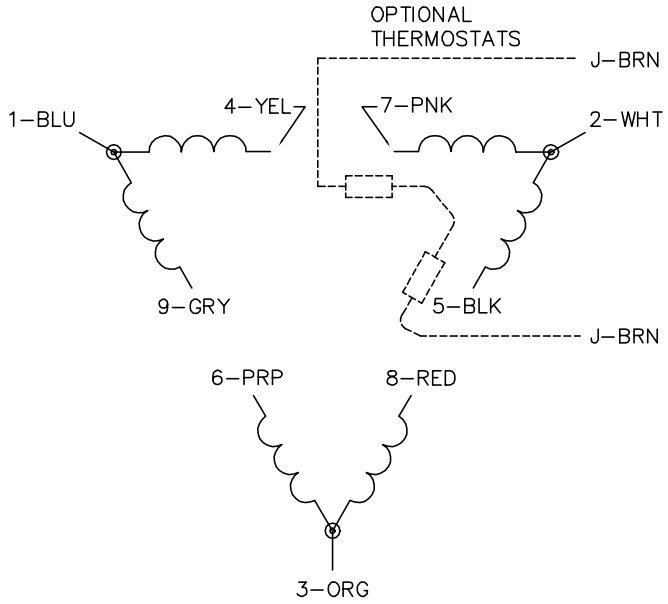
Typical performance - not guaranteed values.

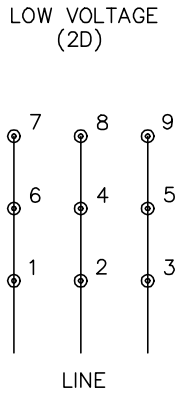
TORQUES(LB-FT): PO=396 PU=198 LR=222 LRA=347

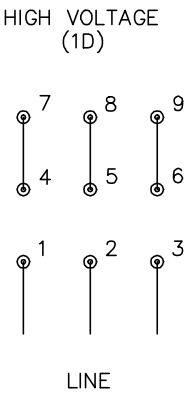



12LYH062
(1232 - 1272) = 33.46
13.84
8.145
8.105
5.895
5.855
2.395
2.355
.25
.25 KEY
2.50 LONG
.50-13
(CL 3B)
R.H. TAP
1.25 DEEP
Ø13.40
Ø12.500
12.497
1.2495
1.2490
Ø1.3750
1.3745
Ø1.750
1.748
SLINGER
GREASE RELIEF
W/ GREASE
TUBE
8 HOLES
Ø.66
10.50
10.50
12.00
14.00
1.00
5.25
DRAIN FITTING
(EA. END)
17.87
14.66
8.46
45°
45°
4 HOLES
.62-11 TAP
1.00 DEEP
Ø11.00 B.C.
3.22
16.23
8.00 +.00 -.06
LEAD HOLE
Ø2.50
6.25
6.25
12.07
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FIX KO TO MATCH BOM
REV: M
VERSION: 07
REVISED: 03:16:32 07/12/2022
TDR: 000001193696
MODEL NO. 12LYH062
REF: -
BY: ENALEM0
B
BALDOR
HORZ TEFC 324-6JP; .50-13 SHAFT TAP
12LYH062

CD0180




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: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1