ABB BALDOR RELIANCE

# Customer information packet

## EM2539T-5

40HP, 1770RPM, 3PH, 60HZ, 324T, 4064M, OPSB, F1


7/8/2026 6:49:14 PM

## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 324T |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 40.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 575.0 V @ 60 HZ |
| **Agency Approvals** | NEMA PREMIUM<br>NEMA PREMIUM (OLD LOGO)<br>CURUSEEV |
| **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** | 40.000 A @ 575.0 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 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 40.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | H |

## Part Detail

| | |
|---|---|
| **Revision** | Z |
| **Type** | AC |
| **Mech. spec.** | 40J002 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 40WGX786 |
| **Layout** | 40LYJ002 |
| **Eff. date** | 04-25-2025 |
| **CD Diagram** | CD0006 |
| **Poles** | 04 |
| **Leads** | 3#8 |
| **Proprietary** | False |
| **Created date** | 11-19-2010 |

| | |
|---|---|
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 3 @ 8 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 4064M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 27.19 IN |
| **Power Factor** | 81 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **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** | No Slinger |
| **Speed** | 1770 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**

| NP3554L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EM2539T-5 | | | **P/N** | | | | | | **ENCL** | OPSB |
| **SPEC.** | 40J002X786G1 | **CC** | 010A | | **FRAME** | 324T | | **SER.NO.** | | | |
| **HP** | 40 | | | **CLASS** | F | | **HZ** | 60 | | | |
| **RPM** | 1770 | | | **PH** | 3 | | **DES** | A | | | |
| **VOLTS** | 575 | | | | **CODE** | H | | **ODE BRG** | 6309 | **DE BRG** | 6312 |
| **AMPS** | 40 | | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | **NEMA-NOM-EFF** | 94.1 | | **GREASE** | POLYREX EM | | |
| **PF** | 81 | **SER.F.** | 1.15 | | **VPWM INVERTER READY** | | | | | | |
| **HTR-VOLTS** | | **HTR-AMPS** | | | **MAX. SPACE HEATER TEMP.** | | | | | | |

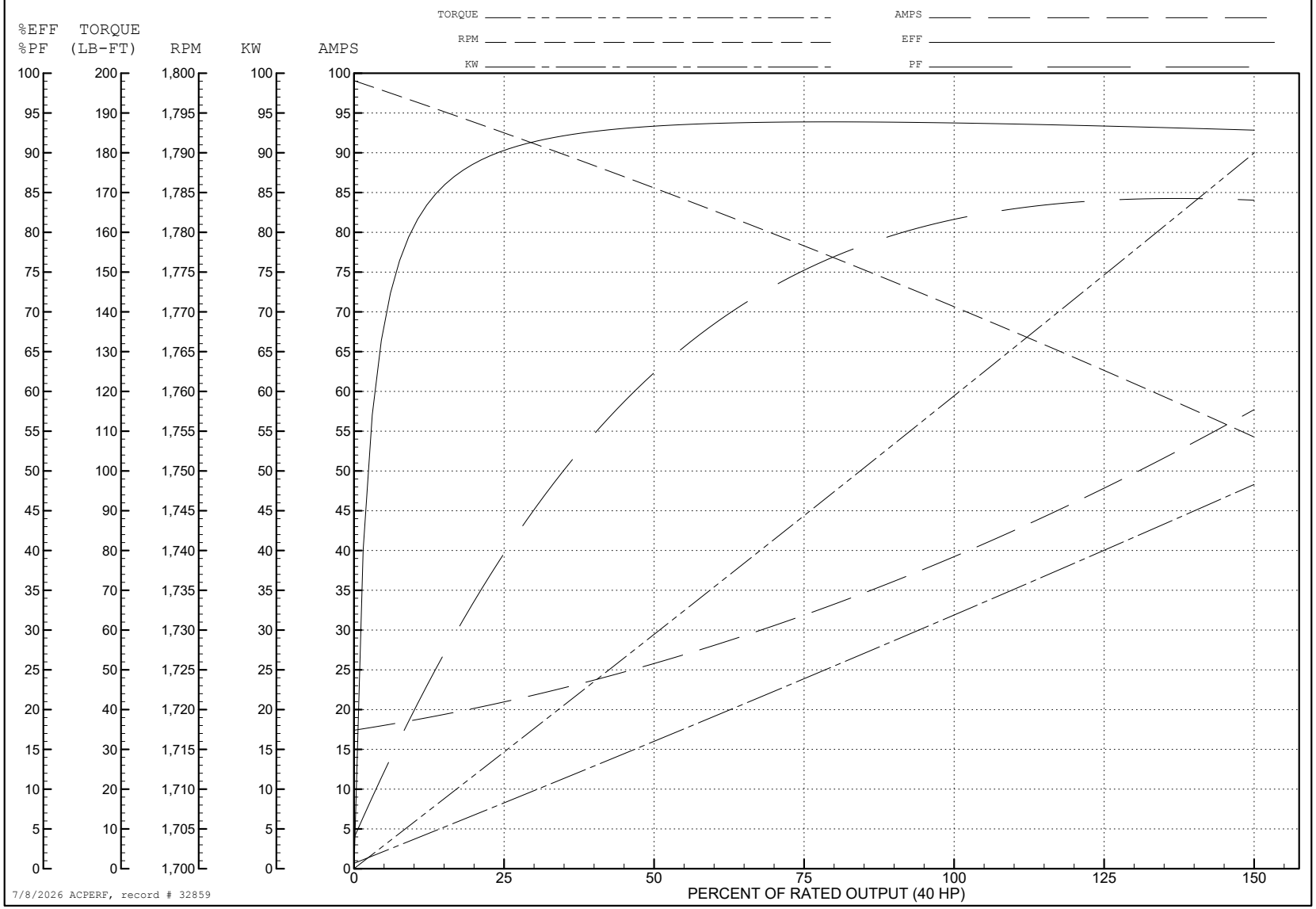
ABB Motors and Mechanical Inc.

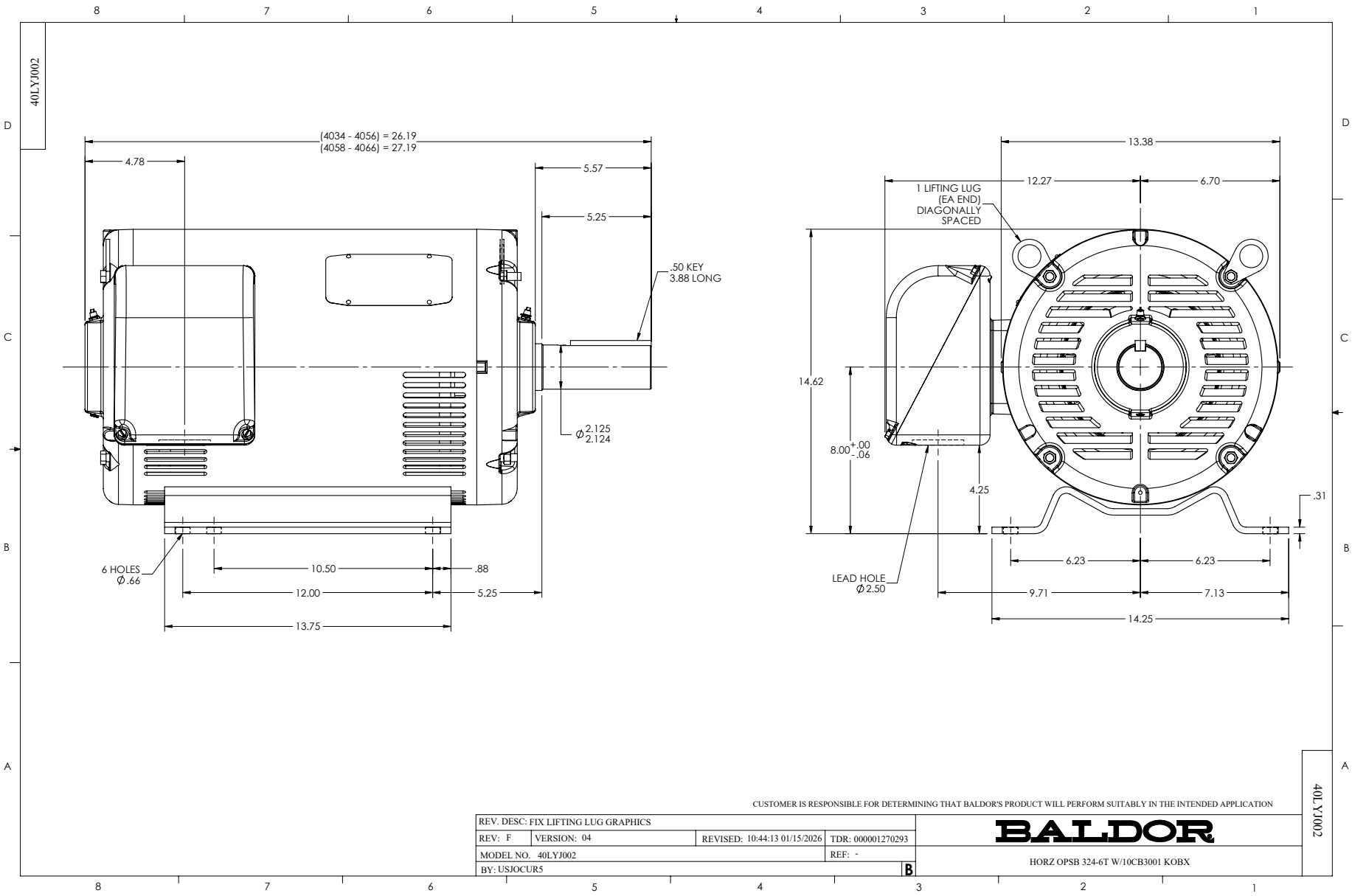
WINDING # 40WGX786

40 HP 3 PH 60 HZ 1770 RPM 575 V 4064M

TORQUES(LB-FT): PO=438 PU=192 LR=253 LRA=272

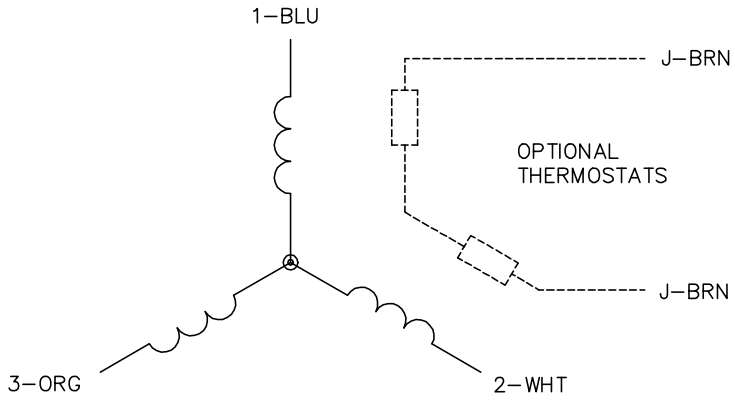
Typical performance - not guaranteed values.

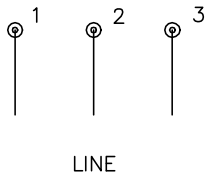



40LYJ002
(4034 - 4056) = 26.19
(4058 - 4066) = 27.19
4.78
5.57
5.25
.50 KEY
3.88 LONG
Ø2.125
2.124
6 HOLES
Ø.66
10.50
.88
12.00
5.25
13.75
13.38
12.27
6.70
1 LIFTING LUG
(EA END)
DIAGONALLY
SPACED
14.62
8.00 +.00 -.06
4.25
.31
6.23
6.23
LEAD HOLE
Ø2.50
9.71
7.13
14.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FIX LIFTING LUG GRAPHICS
REV: F
VERSION: 04
REVISED: 10:44:13 01/15/2026
TDR: 000001270293
MODEL NO. 40LYJ002
REF: -
BY: USJOCUR5
B
BALDOR
HORZ OPSB 324-6T W/10CB3001 KOBX
40LYJ002

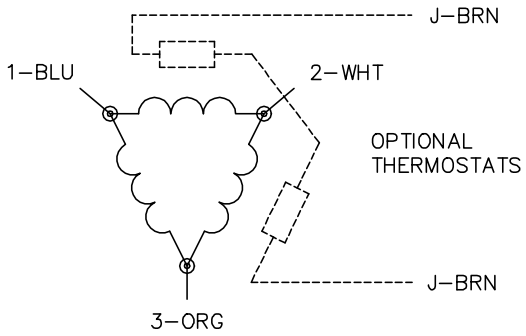
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




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: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1