# Customer information packet

EWDM4109T

40HP, 3530RPM, 3PH, 60HZ, 324TS, TEFC, F1
Class - None
Division - Not Applicable

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11/16/2026 4:09:16 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 324TS |
| **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** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | NEMA PREMIUM |
| | 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** | 90.000 A @ 230.0 V |
| | 45.000 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 92.4 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Enclosure Modification** | Severe Duty Features |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | J |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 10WGY652 |
| **Layout** | 10LYG676 |
| **Eff. date** | 02-21-2024 |
| **CD Diagram** | CD0180 |
| **Poles** | 02 |
| **Leads** | 9#8 |
| **Proprietary** | False |
| **Created date** | 08-15-2019 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 45.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | IP55 |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 5400 rpm |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 1058M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 28.89 IN |
| **Power Factor** | 90 |
| **Product Family** | Washdown Features |
| **Pulley Face Code** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 1.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 3530 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**

| NP1669L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EWDM4109T | | | | | | | | |
| **SPEC.** | 10-0000-1020 | | | | | | | | |
| **HP** | 40 | | | | | | | | |
| **VOLTS** | 230/460 10:1 CT/VT | | | | | | | | |
| **AMP** | 90/45 | | | | | | | | |
| **RPM** | 3530 | | | | | | | | |
| **FRAME** | 324TS | **HZ** | 60 | | | **PH** | 3 | | |
| **SER.F.** | 1.00 | **CODE** | H | **DES** | A | **CLASS** | F | | |
| **NEMA-NOM-EFF** | 92.4 | **PF** | 90 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **DE** | 6312 | **ODE** | 6309 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| **BLANK** | 1.15SF ON SINEWAVE | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 30898
Typical performance - not guaranteed values

| **Winding:** 10WGY652-R001 | **Type:** 1058M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 40 | **Full Load Torque** | 59.5 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 90/45 | **Breakdown Torque** | 197 LB-FT |
| **R.P.M.** | | | 3525 | **Pull-up Torque** | 85.4 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 125 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | H | **Starting Current** | 324 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 12 A |
| **NEMA Nom. Eff.** | 92.4 | **Power Factor** | 90 | **Line-line Res. @ 25ºC** | 0.159 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 78°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 96°C |
| | | | | **Locked-rotor Power Factor** | 22.8 |
| | | | | **Rotor inertia** | 2.49 LB-FT2 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 65 | 82 | 88 | 90 | 90 | 91 | 90 |
| **Efficiency** | 88.6 | 92 | 92.8 | 92.6 | 91.9 | 90.8 | 92.7 |
| **Speed** | 3583 | 3567 | 3550 | 3531 | 3511 | 3485 | 3519 |
| **Line amperes** | 16.3 | 24.7 | 34.3 | 45.1 | 56.3 | 70.6 | 51.8 |

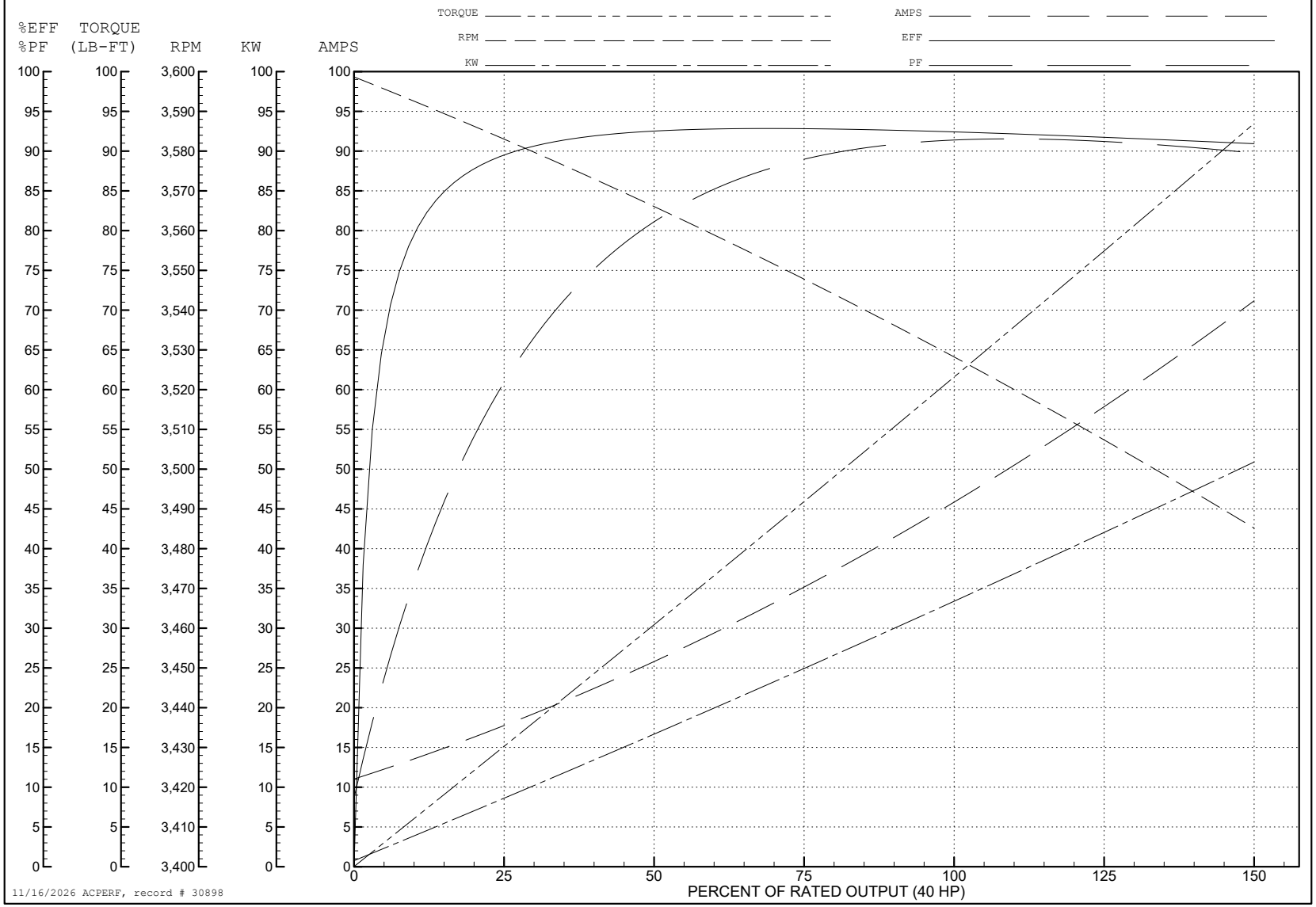
ABB Motors and Mechanical Inc.

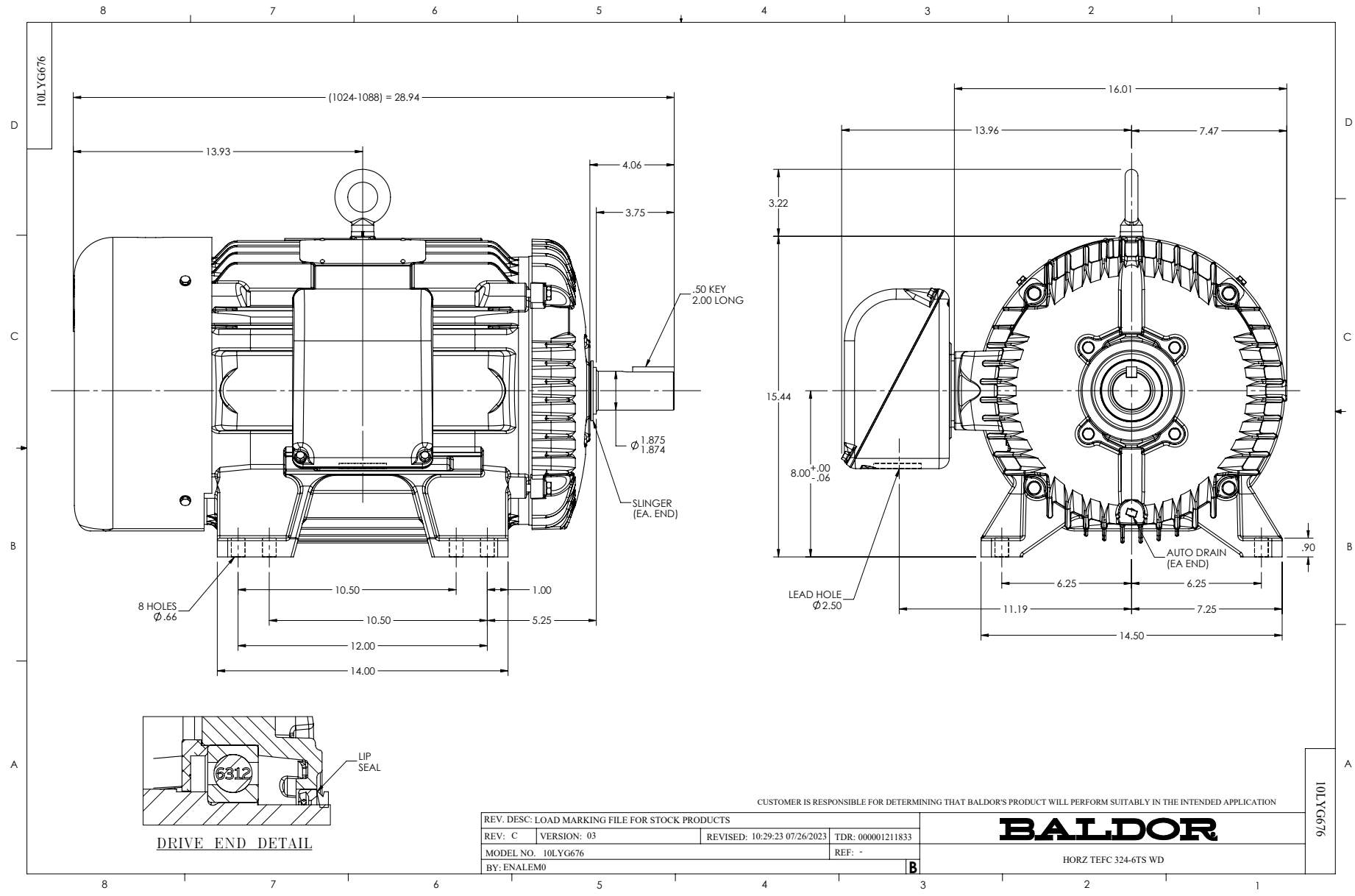
WINDING # 10WGY652

40 HP 3 PH 60 HZ 3525 RPM 460 V 1058M

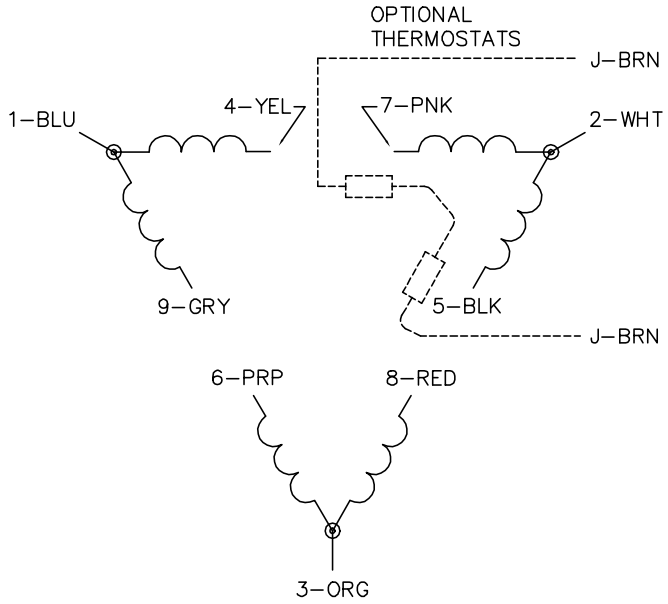
Typical performance - not guaranteed values.

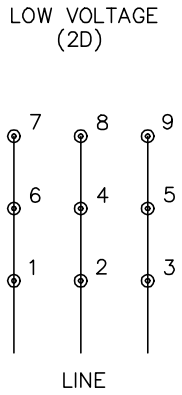
TORQUES(LB-FT): PO=197 PU=85.4 LR=125 LRA=324

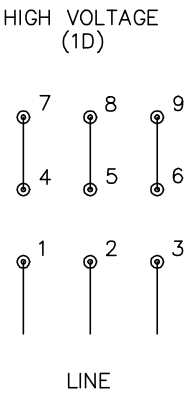



10LYG676
(1024-1088) = 28.94
13.93
4.06
3.75
.50 KEY
2.00 LONG
Ø 1.875
1.874
SLINGER
(EA. END)
8 HOLES
Ø.66
10.50
1.00
10.50
5.25
12.00
14.00
16.01
13.96
7.47
3.22
15.44
8.00 +.00 -.06
AUTO DRAIN
(EA END)
.90
LEAD HOLE
Ø2.50
6.25
6.25
11.19
7.25
14.50
6312
LIP
SEAL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD MARKING FILE FOR STOCK PRODUCTS
REV: C
VERSION: 03
REVISED: 10:29:23 07/26/2023
TDR: 000001211833
MODEL NO. 10LYG676
REF: -
BY: ENALEM0
B
BALDOR
HORZ TEFC 324-6TS WD
10LYG676

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