ABB BALDOR RELIANCE

# Customer information packet

## EWDM4100T

15HP, 1175RPM, 3PH, 60HZ, 284T, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 284T |
| **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** | 15.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 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** | 42.000 A @ 230.0 V |
| | 21.000 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.7 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Enclosure Modification** | Severe Duty Features |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | K |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 10WGY561 |
| **Layout** | 10LYN057 |
| **Eff. date** | 06-11-2025 |
| **CD Diagram** | CD0180 |
| **Poles** | 06 |
| **Leads** | 9#10 |
| **Proprietary** | False |
| **Created date** | 08-16-2019 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 21.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **IP Rating** | IP55 |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 1800 rpm |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 1046M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 27.56 IN |
| **Power Factor** | 73 |
| **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** | 1175 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.** | EWDM4100T | | | | | | | | |
| **SPEC.** | 10-0000-1016 | | | | | | | | |
| **HP** | 15 | | | | | | | | |
| **VOLTS** | 230/460 10:1 CT/VT | | | | | | | | |
| **AMP** | 42/21 | | | | | | | | |
| **RPM** | 1175 | | | | | | | | |
| **FRAME** | 284T | **HZ** | 60 | | | **PH** | 3 | | |
| **SER.F.** | 1.00 | **CODE** | H | **DES** | A | **CLASS** | F | | |
| **NEMA-NOM-EFF** | 91.7 | **PF** | 73 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **DE** | 6311 | **ODE** | 6309 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| **BLANK** | 1.15SF ON SINEWAVE | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 29743
Typical performance - not guaranteed values

| **Winding:** 10WGY561-R001 | **Type:** 1046M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 15 |
| **Volts** | | | 230/460 |
| **Full Load Amps** | | | 42/21 |
| **R.P.M.** | | | 1175 |
| **Hz** | 60 | **Phase** | 3 |
| **NEMA Design Code** | A | **KVA Code** | H |
| **Service Factor (S.F.)** | | | 1.15 |
| **NEMA Nom. Eff.** | 91.7 | **Power Factor** | 73 |
| **Rating - Duty** | | | 40C AMB-CONT |
| **S.F. Amps** | | | |

| **460 V, 60 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 66.68 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 213 LB-FT |
| **Pull-up Torque** | 93.1 LB-FT |
| **Locked-rotor Torque** | 114 LB-FT |
| **Starting Current** | 144 A |
| **No-load Current** | 12.4 A |
| **Line-line Res. @ 25ºC** | 0.502 Ω |
| **Temp. Rise @ Rated Load** | 43°C |
| **Temp. Rise @ S.F. Load** | 51°C |
| **Locked-rotor Power Factor** | 32.9 |
| **Rotor inertia** | 5.63 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 32 | 52 | 65 | 72 | 76 | 78 | 75 |
| **Efficiency** | 83 | 89.4 | 91.3 | 91.7 | 91.4 | 90.8 | 91.7 |
| **Speed** | 1196 | 1193 | 1189 | 1185 | 1181 | 1177 | 1181 |
| **Line amperes** | 13.2 | 15.1 | 17.9 | 21.3 | 25.3 | 29.6 | 23.4 |

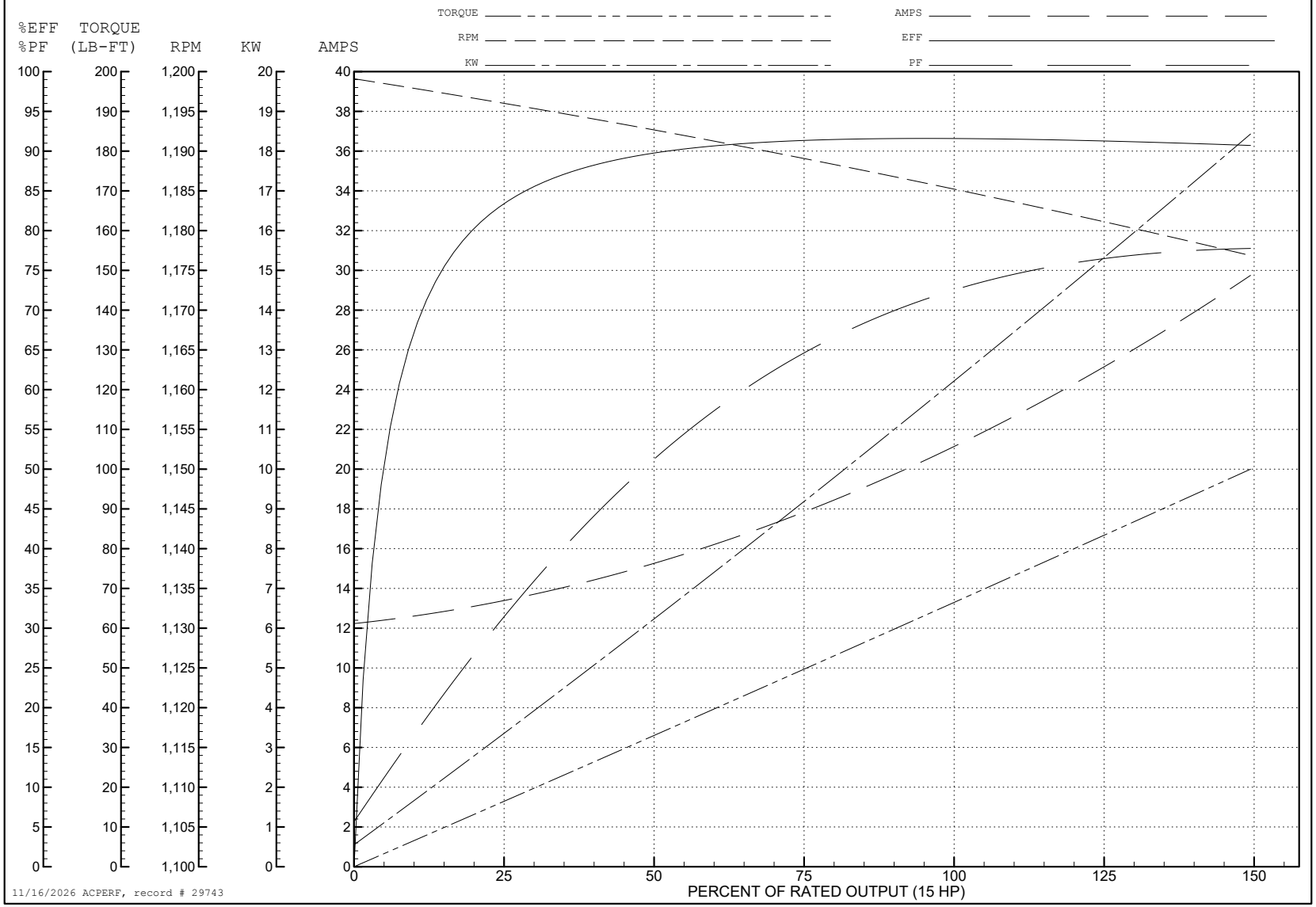
ABB Motors and Mechanical Inc.

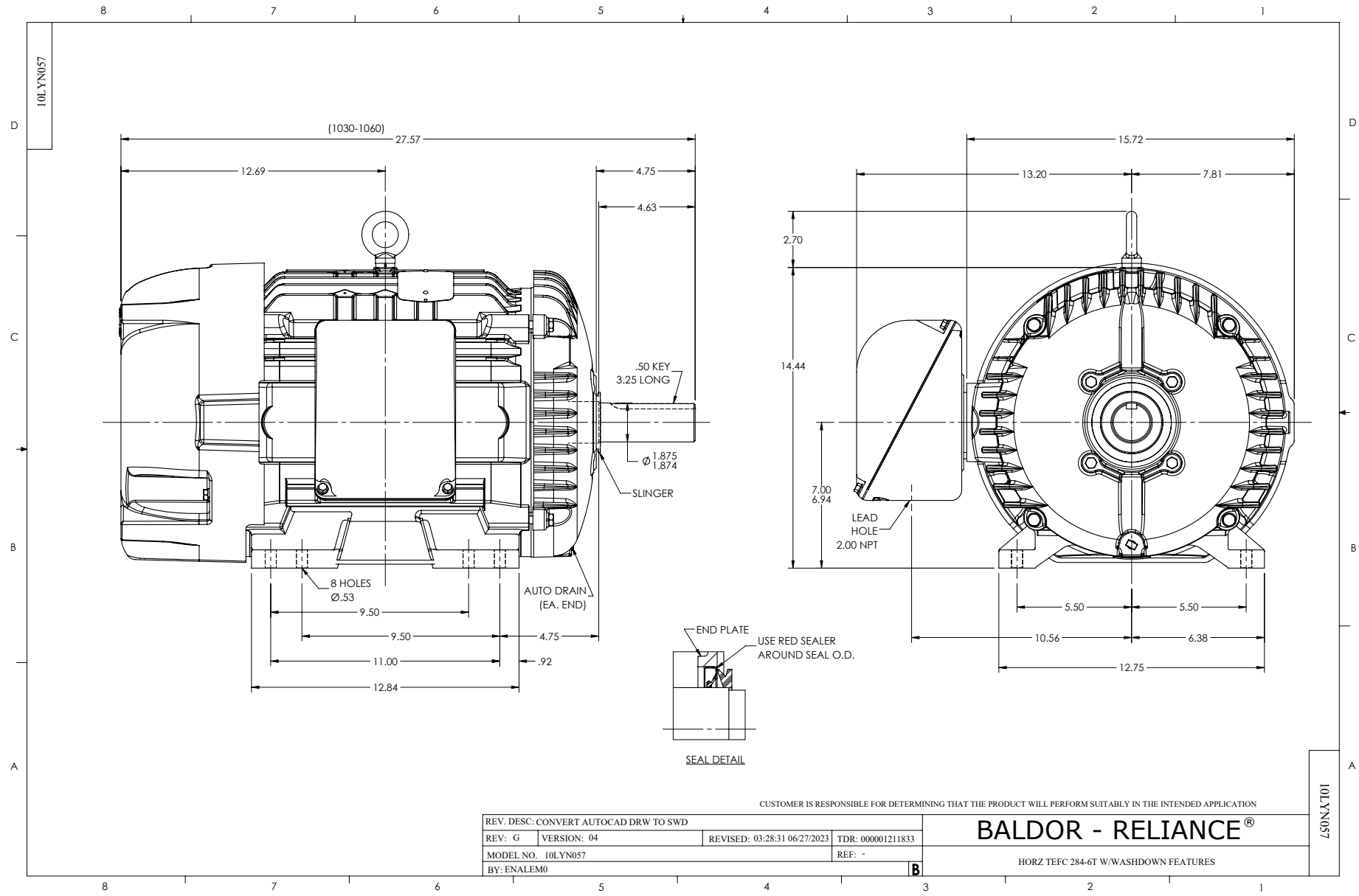
WINDING # 10WGY561

15 HP 3 PH 60 HZ 1175 RPM 460 V 1046M

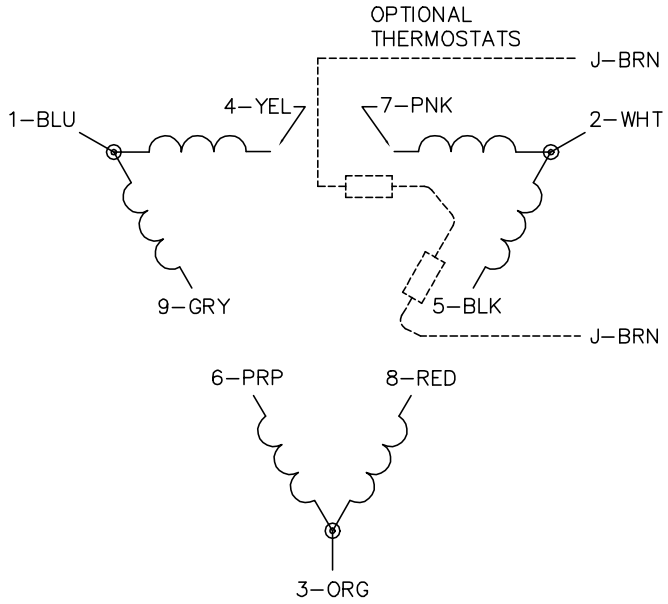
Typical performance - not guaranteed values.

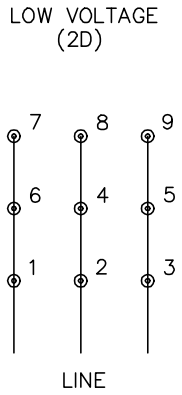
TORQUES(LB-FT): PO=213 PU=93.1 LR=114 LRA=144

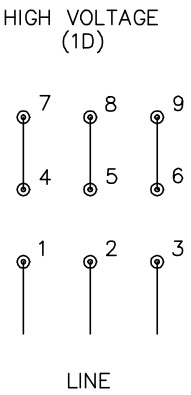



10LYN057
(1030-1060)
27.57
12.69
4.75
4.63
.50 KEY
3.25 LONG
Ø 1.875
1.874
SLINGER
8 HOLES
Ø.53
AUTO DRAIN
(EA. END)
9.50
9.50
4.75
11.00
.92
12.84
15.72
13.20
7.81
2.70
14.44
7.00
6.94
LEAD
HOLE
2.00 NPT
5.50
5.50
10.56
6.38
12.75
END PLATE
USE RED SEALER
AROUND SEAL O.D.
SEAL DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: G
VERSION: 04
REVISED: 03:28:31 06/27/2023
TDR: 000001211833
MODEL NO. 10LYN057
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ TEFC 284-6T W/WASHDOWN FEATURES
10LYN057

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: – | | |

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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1