ABB BALDOR RELIANCE

# Customer information packet

## AEM2332-4

10HP, 1180RPM, 3PH, 60HZ, 284U, 1032M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 284U |
| **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** | 10.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| | CSA |
| **Ambient Temperature** | 65 °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** | 13.800 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.0 % |
| **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** | 13.8 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |

## Part Detail

| | |
|---|---|
| **Revision** | V |
| **Type** | AC |
| **Mech. spec.** | 10M36 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 10WGY714 |
| **Layout** | 10LYM036 |
| **Eff. date** | 07-19-2023 |
| **CD Diagram** | CD0006 |
| **Poles** | 06 |
| **Leads** | 3#10 |
| **Proprietary** | False |
| **Created date** | 04-28-2010 |

| | |
|---|---|
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 3 @ 10 AWG |
| **Motor Lead Termination** | Ring Terminals |
| **Motor Standards** | NEMA |
| **Motor Type** | 1032M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 27.81 IN |
| **Power Factor** | 75 |
| **Product Family** | Automotive (Not For DC) |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 1.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1180 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**

| NP1404 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | | | | | | | | | |
| **SPEC.** | 10M036Y714 | | | | | | | | |
| **VOLTS** | 460 | | | | | | | | |
| **AMP** | 13.8 | | | | | | | | |
| **RPM** | 1180 | | **HP** | 10 | | | | | |
| **FRAME** | 284U | **HZ** | 60 | | **PH** | 3 | | | |
| **SER.F.** | 1.00 | **CODE** | H | **DES** | A | **CL** | F | | |
| **NEMA-NOM-EFF** | 91 | **PF** | 75 | | | | | | |
| **G.MIN.EFF** | 90.2 | **CC** | 010A | | | | | | |
| **RATING** | 65C AMB-CONT | | | | | | | | |
| **LUBRICATION** | POLYREX EM | | | | | | | | |
| **DE** | 6311 | **ODE** | 6309 | | | | | | |
| **ENCL** | TEFC | **SER. #** | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 10-1305 | C FACE KIT | A8 |
| 10EP1502A01SP | D-FLANGE KIT | A8 |

**AC Induction Motor Performance Data**
Record # 30939
Typical performance - not guaranteed values

| **Winding:** 10WGY714-R001 | **Type:** 1032M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 10 | **Full Load Torque** | 44.5 LB-FT |
| **Volts** | | | 460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 13.8 | **Breakdown Torque** | 127 LB-FT |
| **R.P.M.** | | | 1180 | **Pull-up Torque** | 71.7 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 85.3 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | H | **Starting Current** | 88.5 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 7.26 A |
| **NEMA Nom. Eff.** | 91 | **Power Factor** | 75 | **Line-line Res. @ 25ºC** | 1.03 Ω |
| **Rating - Duty** | | | 65C AMB-CONT | **Temp. Rise @ Rated Load** | 34°C |
| | | | | **Locked-rotor Power Factor** | 36 |
| | | | | **Rotor inertia** | 3.92 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 10 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 36 | 56 | 68 | 75 | 78 | 79 |
| **Efficiency** | 82.3 | 88.4 | 90 | 91.1 | 90.3 | 90.7 |
| **Speed** | 1194 | 1190 | 1186 | 1181 | 1177 | 1171 |
| **Line amperes** | 7.92 | 9.31 | 11.4 | 13.8 | 16.6 | 19.7 |

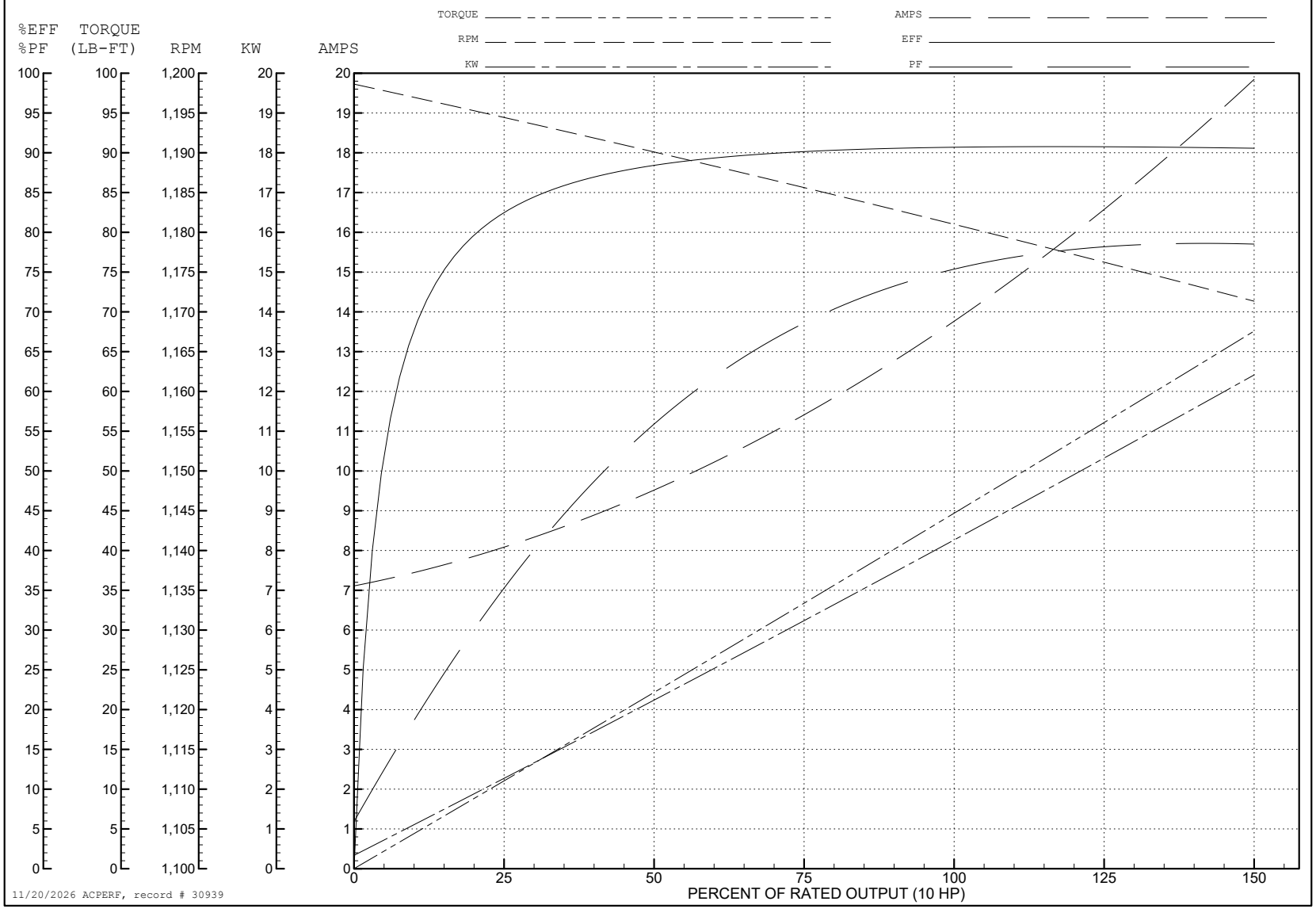
ABB Motors and Mechanical Inc.

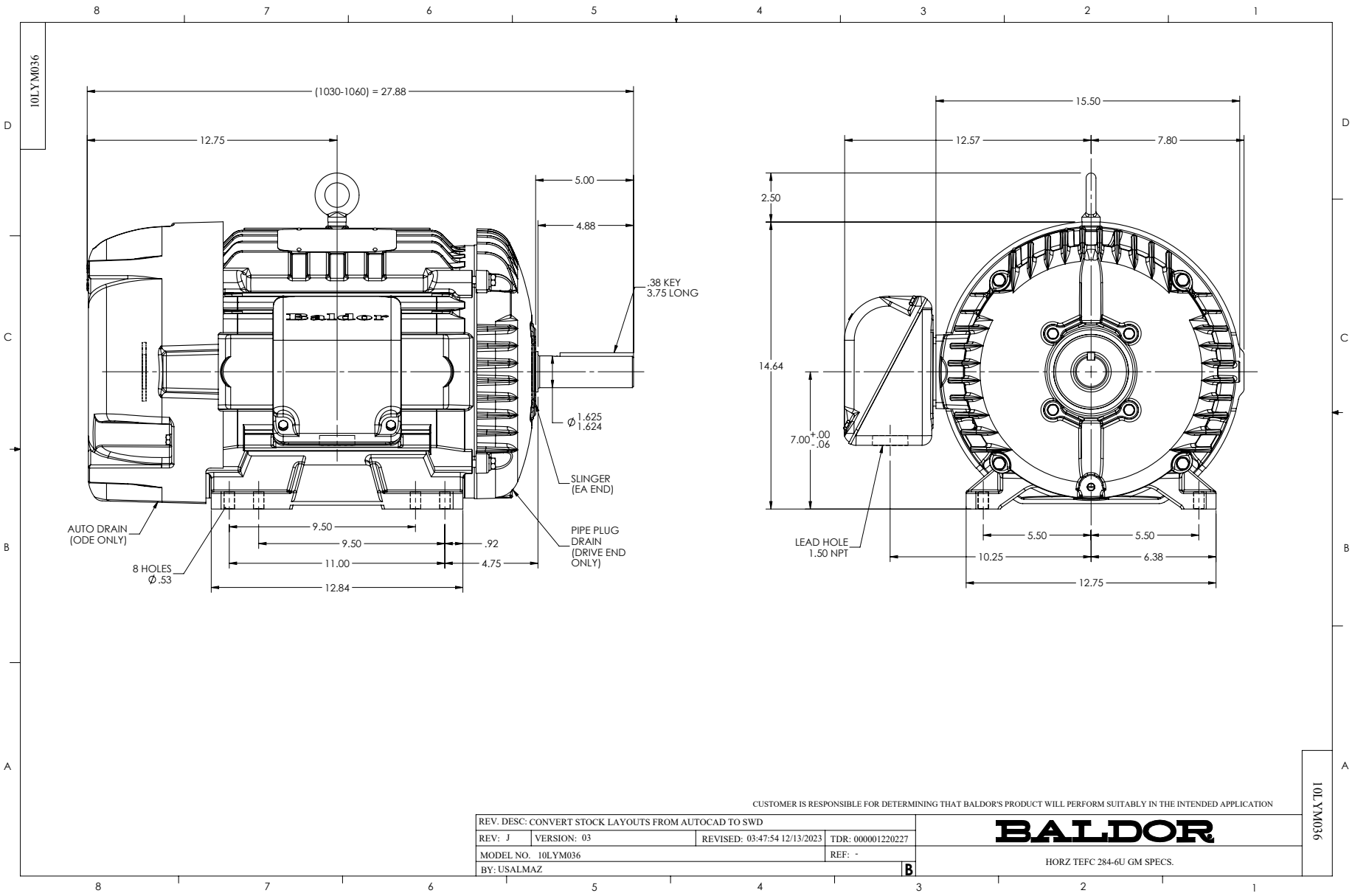
WINDING # 10WGY714

10 HP 3 PH 60 HZ 1180 RPM 460 V 1032M

Typical performance - not guaranteed values.

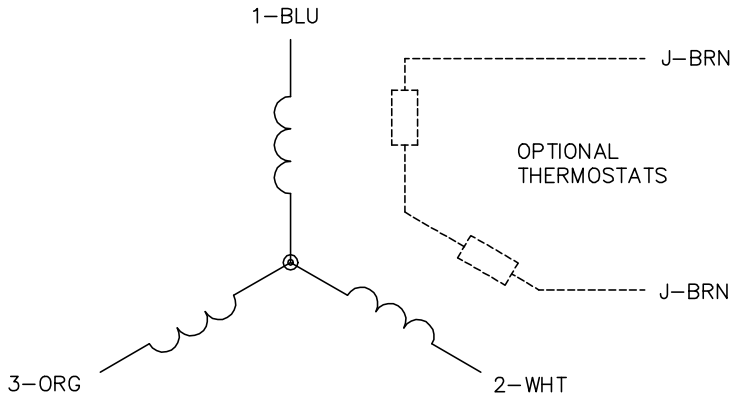
TORQUES(LB-FT): PO=127 PU=71.7 LR=85.3 LRA=88.5

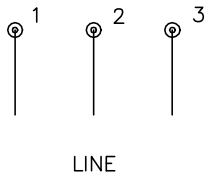



10LYM036
(1030-1060) = 27.88
12.75
5.00
4.88
.38 KEY
3.75 LONG
Ø 1.625
1.624
SLINGER
(EA END)
PIPE PLUG
DRAIN
(DRIVE END
ONLY)
AUTO DRAIN
(ODE ONLY)
8 HOLES
Ø .53
9.50
9.50
.92
11.00
4.75
12.84
15.50
12.57
7.80
2.50
14.64
7.00 +.00 -.06
LEAD HOLE
1.50 NPT
5.50
5.50
10.25
6.38
12.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: J
VERSION: 03
REVISED: 03:47:54 12/13/2023
TDR: 000001220227
MODEL NO. 10LYM036
REF: -
BY: USALMAZ
B
BALDOR
HORZ TEFC 284-6U GM SPECS.
10LYM036

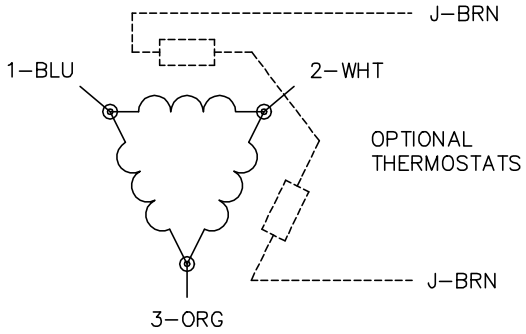
CD0006

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