ABB BALDOR RELIANCE

# Customer information packet

PSC3413A

.25HP, 1625RPM, 1PH, 60HZ, 48Z, 3411C, TEAO, F1
Class - None
Division - Not Applicable

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11/18/2026 10:05:28 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEAO |
| **Frame** | 48Z |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Oil Capacitor Start and Run |
| **Output @ Frequency** | .250 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 115.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| | CSA |
| **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** | 1.300 A @ 230.0 V |
| | 2.600 A @ 115.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 65.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Terminal Panel |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 1.3 a |

## Part Detail

| | |
|---|---|
| **Revision** | S |
| **Type** | AC |
| **Mech. spec.** | 34G144 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGW427 |
| **Layout** | 34LYG144 |
| **Eff. date** | 04-30-2025 |
| **CD Diagram** | CD0028 |
| **Poles** | 04 |
| **Leads** | 7#18 |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | C |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Terminal Panel Or Lead Hole |
| **Motor Lead Quantity/Wire Size** | 7 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3411C |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.34 IN |
| **Power Factor** | 93 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.500 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1625 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** | Automatic Thermal Overload |
| **Winding Thermal 1 Location** | SB |

**Nameplate**

| NP1257L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | PSC3413A | | | | | | | | |
| **SPEC.** | 34G144W427 | | | | | | | | |
| **HP** | .25 AIR OVER | | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | | |
| **AMP** | 2.6/1.3 | | | | | | | | |
| **RPM** | 1625 | | | | | | | | |
| **FRAME** | 48Z | **HZ** | 60 | **PH** | 1 | | | | |
| **SER.F.** | 1.00 | **CODE** | C | **DES** | N | **CL** | B | | |
| **NEMA-NOM-EFF** | 65.5 | **PF** | 93 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | | |
| **ENCL** | TEAO | **SN** | | | | | | | |

**AC Induction Motor Performance Data**
Record # 6978
Typical performance - not guaranteed values

| **Winding:** 34WGW427-R001 | **Type:** 3411C | **Enclosure:** TEAO |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .25 AIR OVER | **Full Load Torque** | 0.8 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 2.6/1.3 | **Breakdown Torque** | 1.2 LB-FT |
| **R.P.M.** | | | 1625 | **Pull-up Torque** | 0.4 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 0.4 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | C | **Starting Current** | 3.5 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 0.5 A |
| **NEMA Nom. Eff.** | 65.5 | **Power Factor** | 93 | **Line-line Res. @ 25ºC** | 18.9 Ω A Ph<br>11.3 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | |

**Load Characteristics 230 V, 60 Hz, 0.25 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** |
|---|---|---|---|---|---|
| **Power Factor** | 73 | 84 | 90 | 93 | 95 |
| **Efficiency** | 45.4 | 62.4 | 68.4 | 67.6 | 58.4 |
| **Speed** | 1752 | 1711 | 1658 | 1582 | 1440 |
| **Line amperes** | 0.6 | 0.8 | 1 | 1.3 | 1.8 |

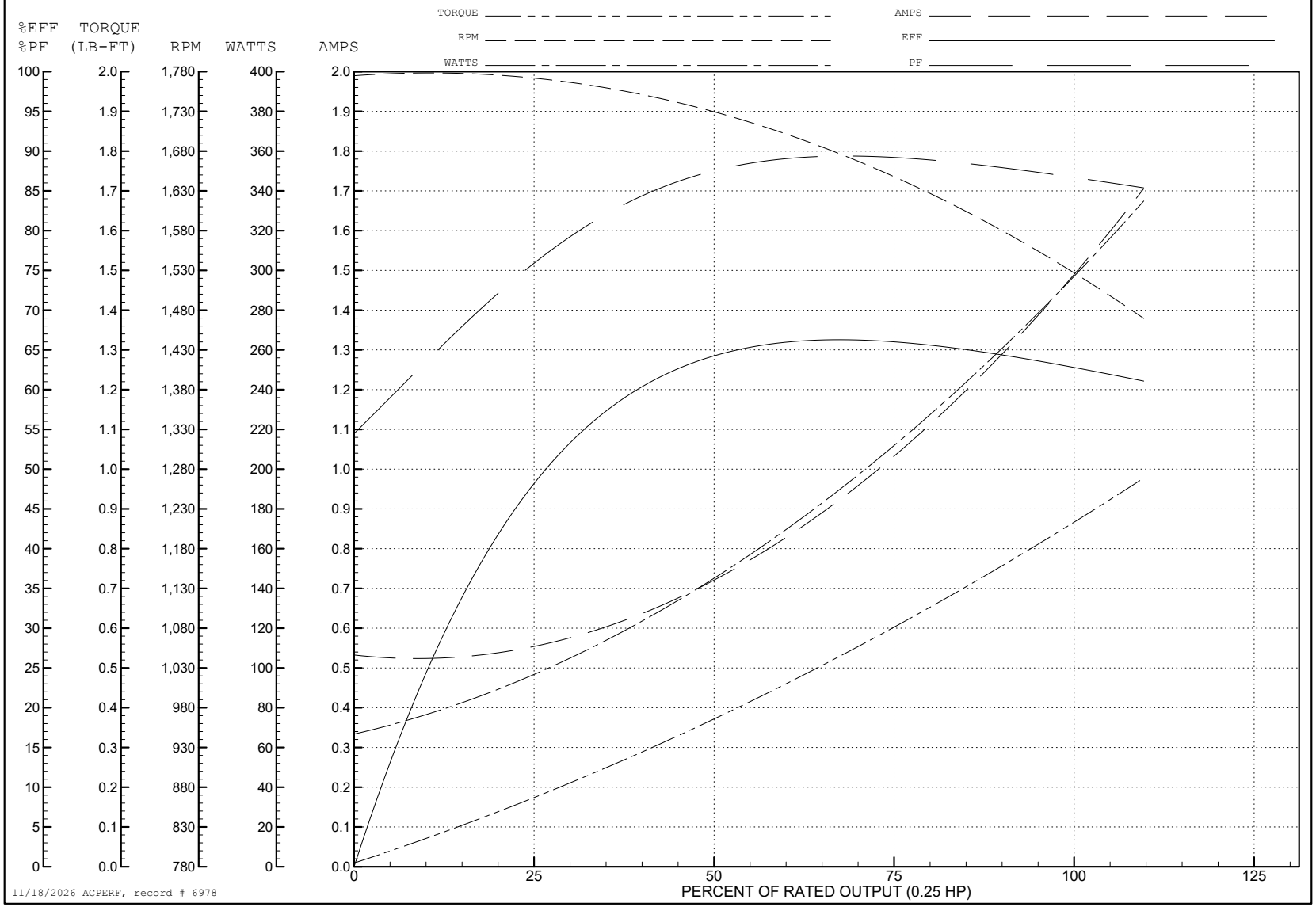
ABB Motors and Mechanical Inc.

WINDING # 34WGW427

0.25 HP 1 PH 60 HZ 1625 RPM 230 V 3411C

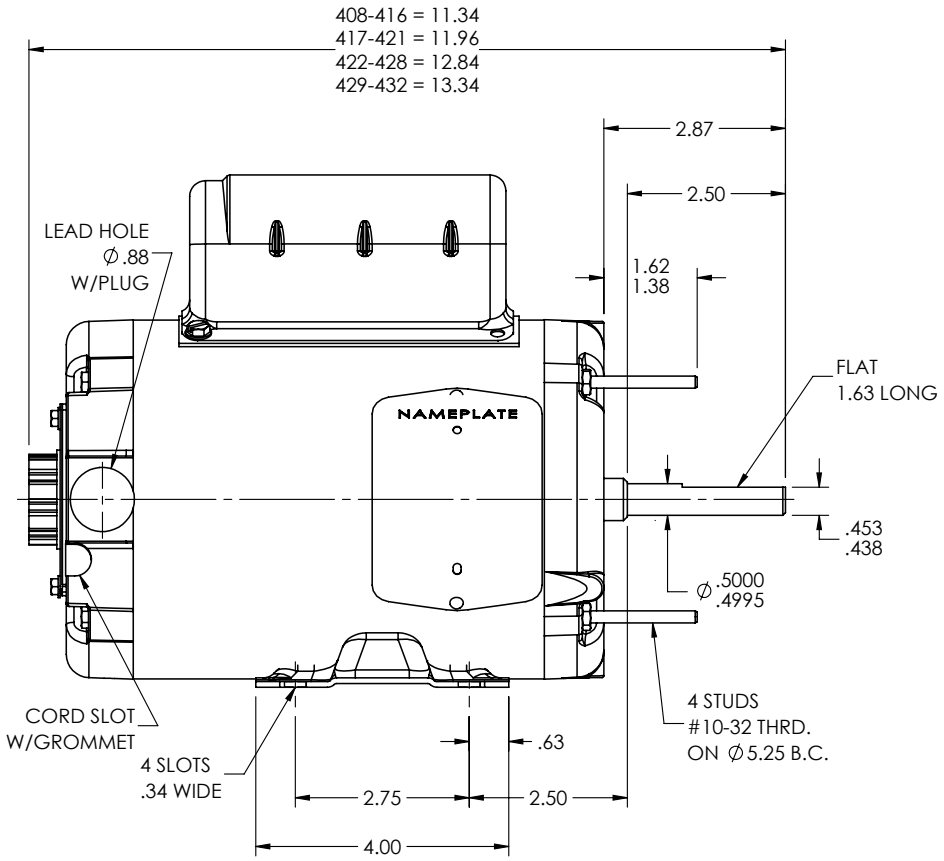
Typical performance - not guaranteed values.

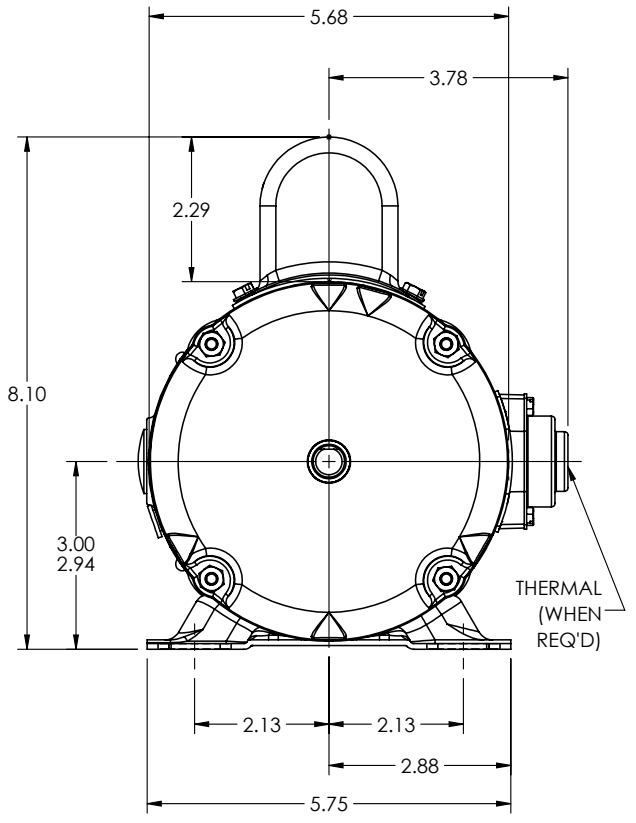
TORQUES(LB-FT): PO=1.2 PU=0.4 LR=0.4 LRA=3.5




11/18/2026 ACPERF, record # 6978

34LYG144




34LYG144

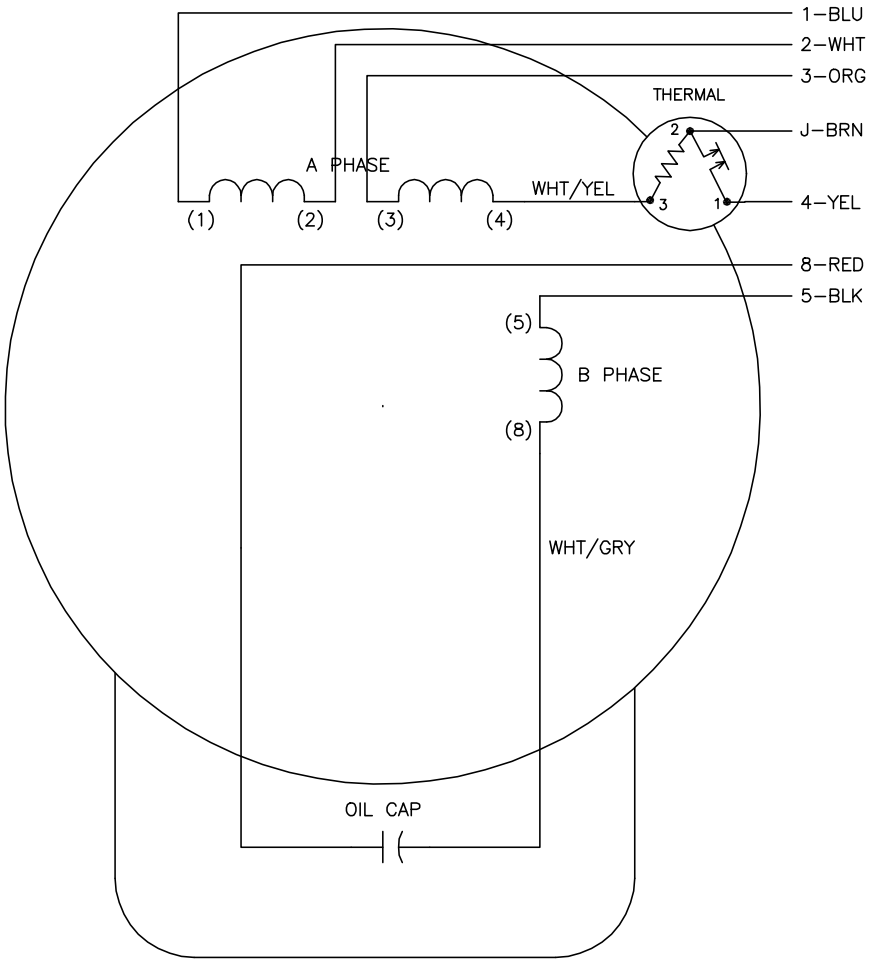
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

| | | | |
|---|---|---|---|
| REV. DESC: LOAD TO SOLIDWORKS - REV E | | | |
| REV: F | VERSION: 02 | REVISED: 10:15:24 03/15/2023 | TDR: 000001201165 |
| 34LYG144 | MODEL NO. 34LYG144 | | REF: - |
| | BY: ENFRAJ0 | | |

BALDOR - RELIANCE®

HORZ MODEL 34C NEMA 48Z TENV W/EXTENDED T-BOLTS & TERM PANEL

CD0028




| | LINE A | LINE B | JOIN | JOIN |
|---|---|---|---|---|
| HIGH STD | 1 | 4 | 2,3,8 | J,5 |
| HIGH OPP | 1 | 4 | 2,3,5 | J,8 |
| LOW STD | 1,3,8 | 4 | – | 2,J,5 |
| LOW OPP | 1,3,5 | 4 | – | 2,J,8 |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0028

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | VERSION: 01 | TDR: 000000373051 | |
| CD0028 | FILE: \AAA\00007\413 | REVISED: 15:17:57 09/07/2005 | TYPE C, DV, REV, THERMAL, 7 LEADS |
| | MTL: – | BY: ENJOEP0 | |