ABB BALDOR RELIANCE

# Customer information packet

VP3468-14

1.5HP/1.1KW/3000RPM/TEFC 34-6243Z178
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Armature Voltage** | 180 V |
| **Base Speed** | 3000 rpm |
| **Enclosure** | TEFC |
| **Frame** | D80C |
| **Haz Area Class and Group** | None |
| **Output Power** | 1.500 HP |
| **Agency Approvals** | CSA |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Armature Current** | 7.7 a |
| **Armature Inertia** | 12.486 lb-ft2 |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Feedback Device** | NO FEEDBACK |
| **Frame Prefix** | D |
| **Haz Area Division** | Not Applicable |
| **Heater Indicator** | No Heater |
| **Insulation Class** | F |
| **Lifting Lugs** | No Lifting Lugs |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 2 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | IEC |
| **Mounting Arrangement** | B34 |
| **Overall Length** | 15.22 IN |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.748 IN |
| **Shaft Extension Location** | Pulley End |

## Part Detail

| | |
|---|---|
| **Revision** | AB |
| **Type** | DC |
| **Mech. spec.** | 34-6243 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGZ178 |
| **Layout** | 34LY6243 |
| **Eff. date** | 10-25-2024 |
| **CD Diagram** | CD0194 |
| **Poles** | 00 |
| **Leads** | |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |

**Nameplate**

| NP1049L | | | | | | | |
|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VP3468-14 | | | | | | |
| **SPEC.** | 34-6243Z178 | | | | | | |
| **KW/HP** | 1.1/1.5 TE | | | **I.P.** | 44 | | |
| **RPM** | 3000 1/MIN | | | | | | |
| **IEC FRAME** | D80C | | **TYPE** | 3432P | | | |
| **ARM V** | 180 | | | **ARM A** | 7.7 | | |
| **FLD V** | | | | **FLD A** | | | |
| **INSUL** | F | | **AMB.** | 40 | | | |
| **DUTY** | CONT | | | **SUPPLY** | 1.5 | | |
| **BRG/DE** | 6205 | | **BRG/ODE** | | 6203 | | |
| **BRUSHES** | 2/BP5000AW14 | | | | | | |
| | | | | **BLANK** | KG20 IC411 | | |
| **SER.** | | | | | | | |
| **BLANK** | IEC60034-1;-5 | | | | | | |
| **APRV-CE** | Y | **APRV-CSA** | Y | **APRV-UL** | | Y | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| TK3400 | TACHO MOUNTING KIT FOR TK3400 | A8 |
| TK3400-HPU | HPU10 MOUNTING KIT 34P/35P TEFC | |

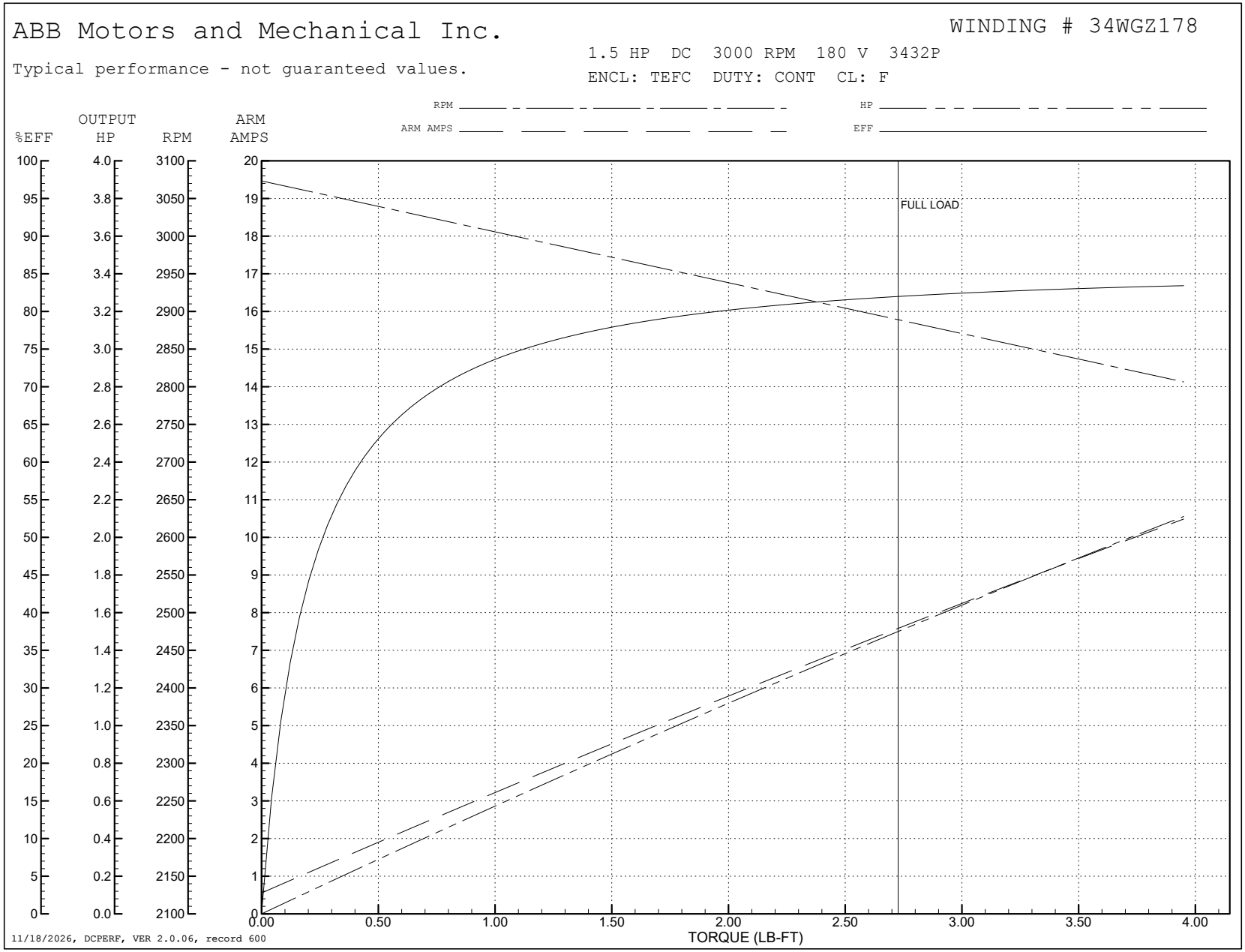
**DC Motor Performance Data**
Record # 600
Typical performance - not guaranteed values

| **Winding:** 34WGZ178-R001 | **Type:** 3432P | **Enclosure:** TEFC |
|---|---|---|

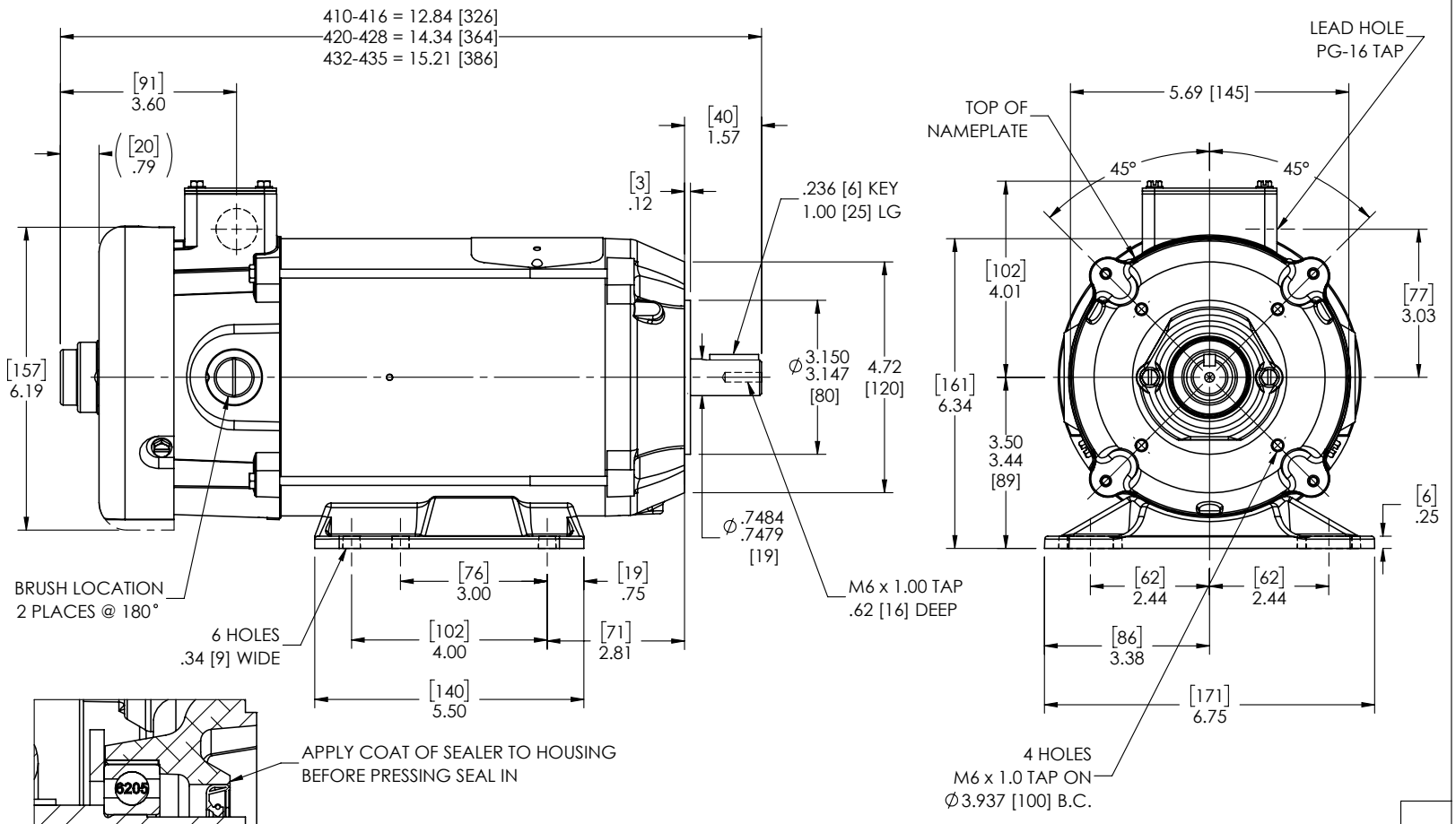
| **Nameplate Data** | | **General Characteristics** | |
|---|---|---|---|
| **Rated Output (HP)** | 1.5 | **Armature Resistance @ 25ºC** | 0.8865 Ω |
| **R.P.M.** | 3000 | | |
| **Armature Volts** | 180 | | |
| **Armature Amps** | 7.7 | | |
| **Field Volts** | | **Armature Inductance** | 9.116 mH |
| **Field Amps** | | | |
| **Rating - Duty** | 40C AMB-CONT | | |
| **Form Factor** | 1.5 | | |

**Load Characteristics at 180 Armature Volts**

| **Load Point** | **1** | **2** | **3** | **4** | **5** | **6** | **7** |
|---|---|---|---|---|---|---|---|
| **Armature Amps** | 0.51 | 2.41 | 4.04 | 5.73 | 7.3 | 8.91 | 10.52 |
| **R.P.M.** | 3083 | 3018 | 2983 | 2934 | 2902 | 2855 | 2804 |
| **Torque ( LB-FT )** | 0 | 0.66 | 1.32 | 1.97 | 2.63 | 3.29 | 3.95 |


ABB Motors and Mechanical Inc.
WINDING # 34WGZ178
1.5 HP DC 3000 RPM 180 V 3432P
Typical performance - not guaranteed values.
ENCL: TEFC DUTY: CONT CL: F
RPM
HP
ARM AMPS
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/18/2026, DCPERF, VER 2.0.06, record 600

34LY6243




PULLEY END DETAIL

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

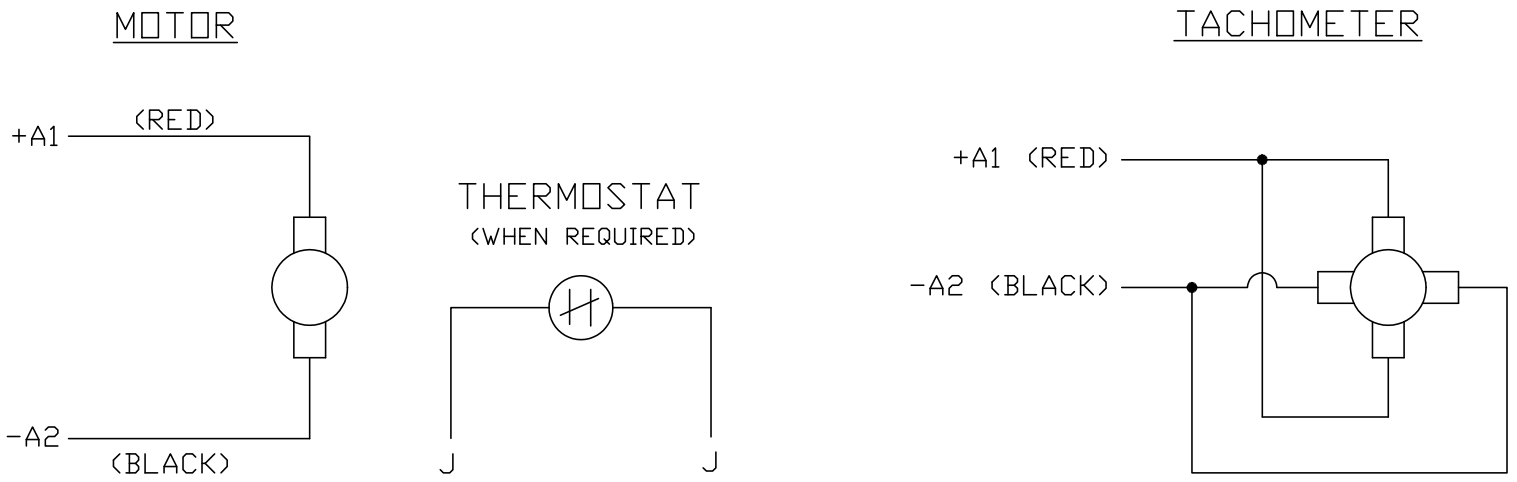
| | | | |
|---|---|---|---|
| REV. DESC: ROTATE PU ENDPLATE SO DRAIN IS AT 6:00 | | | |
| REV: Q | VERSION: 08 | REVISED: 09:37:44 11/08/2023 | TDR: 000001220064 |
| 34LY6243 | MODEL NO. 34LY6243 | | REF: - |
| | BY: ENJEFD0 | | |

BALDOR - RELIANCE®

STD HORZ 34PM TEFC IEC D80C-B34 W/SEAL & M.F.T.K.

34LY6243

CD0194




NOTES:

1. CCW ROTATION AS SHOWN FACING COMMUTATOR END. TO REVERSE MOTOR ROTATION OR TACHOMETER OUTPUT POLARITY INTERCHANGE LEADS A1(RED) & A2(BLACK)

2. LEAD COLORS FOR REFERENCE ONLY & NOT SPECIFIED BY THIS DRAWING. LEAD COLORS SPECIFIED BY LAYOUT DRAWING & BILL OF MATERIAL ONLY.

CD0194

| | | | | |
|---|---|---|---|---|
| MATL: – | | | | BALDOR ELECTRIC Co. |
| REV: E | ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &.... | | | |
| CD0194 | SCALE: – | BY: CK | REVISED: 07/28/95 | CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS |
| | FILE: AAA00004503 | | TDR: 0078737 | |