ABB BALDOR RELIANCE

# Customer information packet

## VP3326D

.37/.5HP, 1750RPM, DC, D71D, 3336P, TENV, F2

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11/17/2026 2:10:52 PM

## Specifications

| | |
|---|---|
| **Armature Voltage** | 180 V |
| **Base Speed** | 1750 rpm |
| **Enclosure** | TENV |
| **Frame** | D71D |
| **Frame Material** | Steel |
| **Output Power** | 0.500 HP |
| **Agency Approvals** | CE |
| | CSA |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Armature Current** | 2.5 a |
| **Armature Inertia** | 8.424 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 |
| **Heater Indicator** | No Heater |
| **Lifting Lugs** | No Lifting Lugs |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 2 @ 18 AWG, A |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | IEC |
| **Mounting Arrangement** | B35 |
| **Overall Length** | 14.29 IN |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.552 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |

## Part Detail

| | |
|---|---|
| **Revision** | Y |
| **Type** | DC |
| **Mech. spec.** | 33-2370 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 33WGZ139 |
| **Layout** | 33LY2370 |
| **Eff. date** | 10-24-2024 |
| **CD Diagram** | CD0194 |
| **Poles** | 00 |
| **Leads** | 2#18 A Y |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

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

**Nameplate**

| NP1049L | | | | | |
|---|---|---|---|---|---|
| **CAT.NO.** | VP3326D | | | | |
| **SPEC.** | 33-2370Z139 | | | | |
| **KW/HP** | .37/.5 TE | | **I.P.** | 54 | |
| **RPM** | 1750 1/MIN | | | | |
| **IEC FRAME** | D71D | **TYPE** | 3336P | | |
| **ARM V** | 180 | | **ARM A** | 2.5 | |
| **FLD V** | | | **FLD A** | | |
| **INSUL** | F | **AMB.** | 40 | | |
| **DUTY** | CONT | | **SUPPLY** | 1.3 | |
| **BRG/DE** | 6203 | **BRG/ODE** | 6203 | | |
| **BRUSHES** | 2/BP5011CV01 | | | | |
| | | | **BLANK** | | |
| **SER.** | | | | | |
| **BLANK** | IEC60034-1;-5 IC410 KG14 | | | | |
| **APRV-CE** | Y | **APRV-CSA** Y | **APRV-UL** | Y | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| TK3300 | TACHO MOUNTING KIT TK3300 | A8 |
| TK3300-HPU | HPU10 MOUNTING KIT 33P/34P TENV | A8 |

**DC Motor Performance Data**
Record # 2018
Typical performance - not guaranteed values

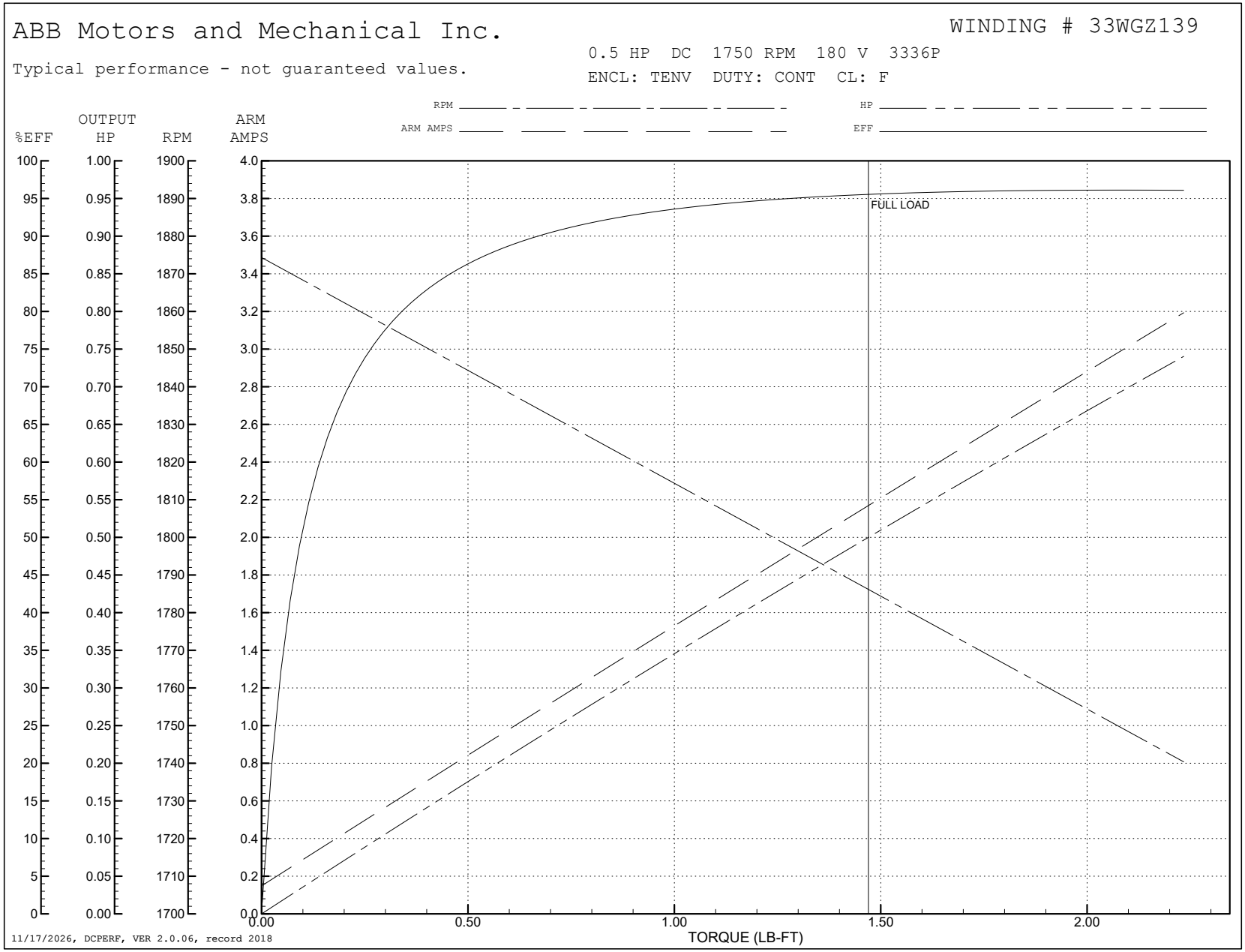
| **Winding:** 33WGZ139-R010 | **Type:** 3336P | **Enclosure:** TENV |
|---|---|---|

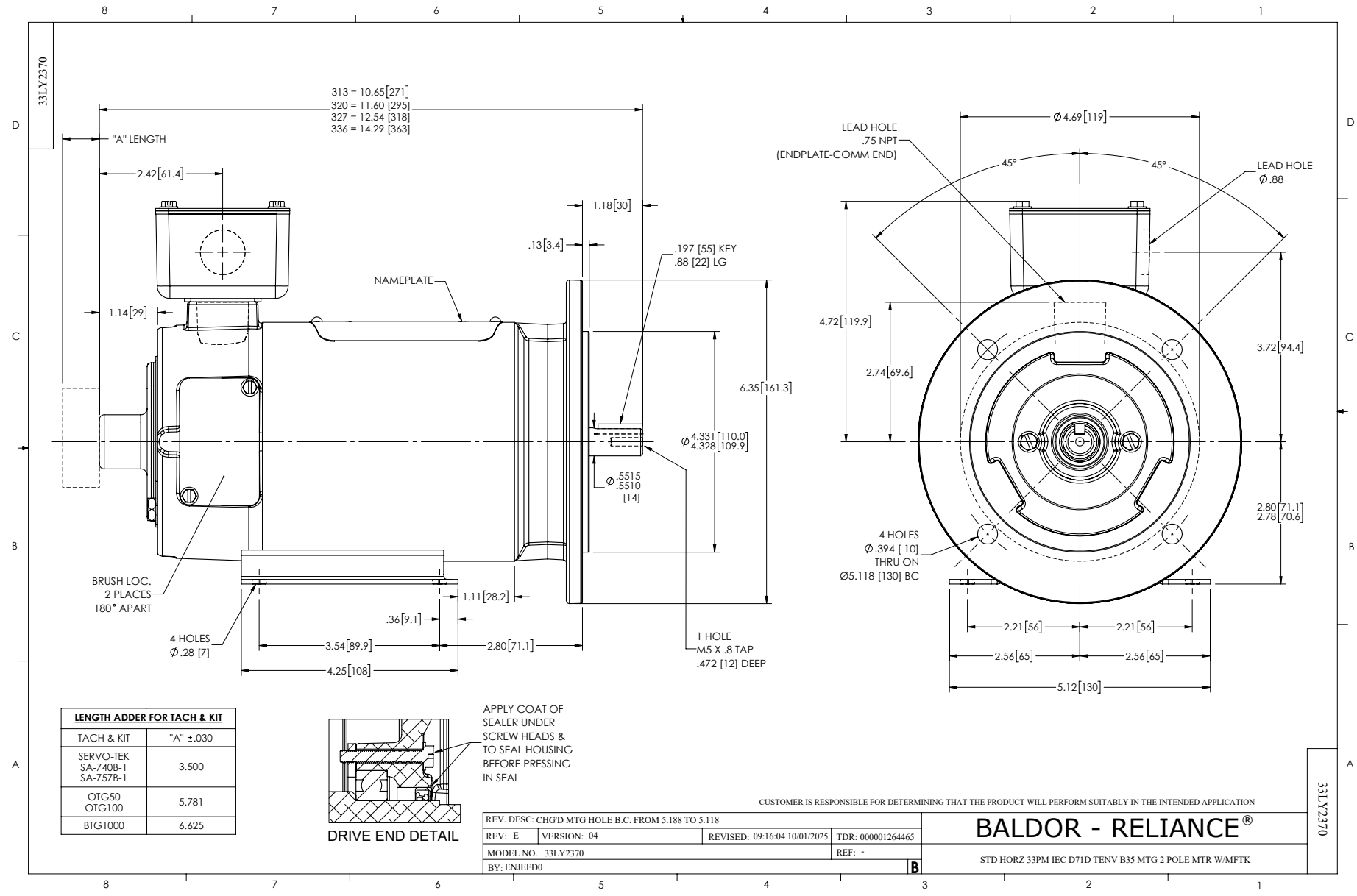
| **Nameplate Data** | |
|---|---|
| **Rated Output (HP)** | 0.5 |
| **R.P.M.** | 1750 |
| **Armature Volts** | 180 |
| **Armature Amps** | 2.5 |
| **Field Volts** | |
| **Field Amps** | |
| **Rating - Duty** | 40C AMB-CONT |
| **Form Factor** | 1.3 |

| **General Characteristics** | |
|---|---|
| **Armature Resistance @ 25ºC** | 3.08 Ω |
| | |
| **Voltage Constant** | 95.88 v/krpm |
| | |
| **Armature Inductance** | 28.39697 mH |
| **Armature Inertia** | 8.4241 LI² |

**Load Characteristics at 180 Armature Volts**

| **Load Point** | **1** | **2** | **3** | **4** | **5** | **6** | **7** |
|---|---|---|---|---|---|---|---|
| **Armature Amps** | 0.15 | 0.65 | 1.2 | 1.7 | 2.2 | 2.7 | 3.2 |
| **R.P.M.** | 1880 | 1848 | 1831 | 1803 | 1781 | 1762 | 1745 |
| **Torque ( LB-FT )** | 0 | 0.365 | 0.752 | 1.117 | 1.504 | 1.869 | 2.234 |


ABB Motors and Mechanical Inc.
WINDING # 33WGZ139
Typical performance - not guaranteed values.
0.5 HP DC 1750 RPM 180 V 3336P
ENCL: TENV DUTY: CONT CL: F
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/17/2026, DCPERF, VER 2.0.06, record 2018




| LENGTH ADDER FOR TACH & KIT | |
|---|---|
| TACH & KIT | "A" ±.030 |
| SERVO-TEK<br>SA-740B-1<br>SA-757B-1 | 3.500 |
| OTG50<br>OTG100 | 5.781 |
| BTG1000 | 6.625 |



APPLY COAT OF SEALER UNDER SCREW HEADS & TO SEAL HOUSING BEFORE PRESSING IN SEAL

DRIVE END DETAIL

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

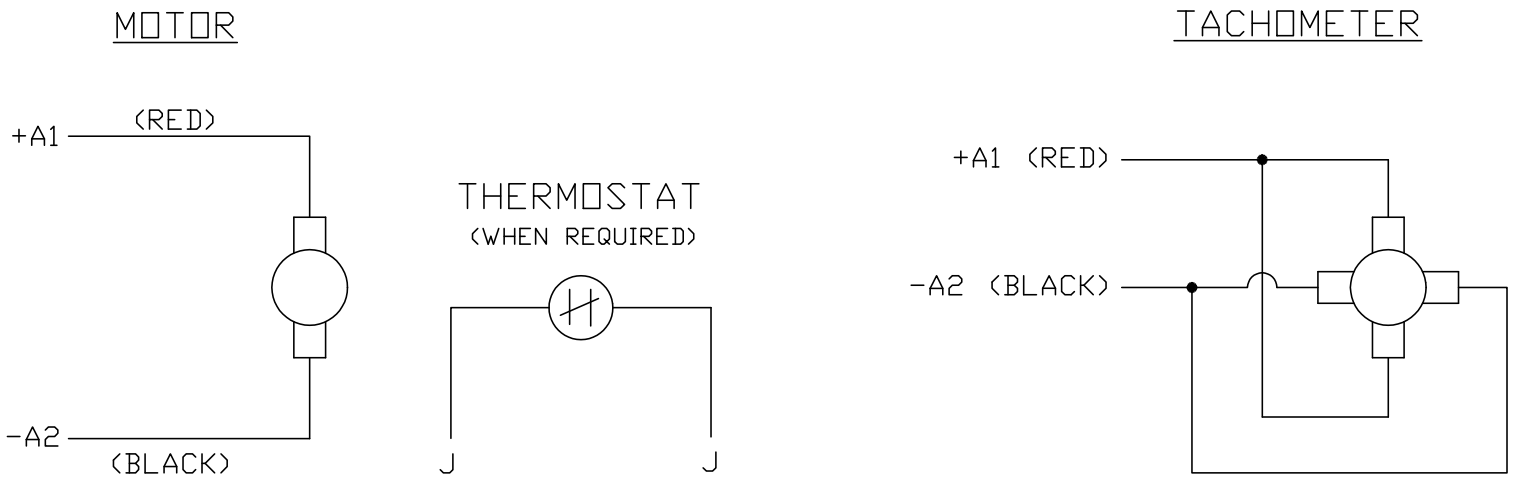
| | | | |
|---|---|---|---|
| REV. DESC: CHG'D MTG HOLE B.C. FROM 5.188 TO 5.118 | | | |
| REV: E | VERSION: 04 | REVISED: 09:16:04 10/01/2025 | TDR: 000001264465 |
| MODEL NO. 33LY2370 | | | REF: - |
| BY: ENJEFD0 | | | B |

BALDOR - RELIANCE®

STD HORZ 33PM IEC D71D TENV B35 MTG 2 POLE MTR W/MFTK

33LY2370

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 | |