

BALDOR® • RELIANCE™

Customer information packet

CDPWD3316

.33HP, 1750RPM, DC, 56C, 3327P, TENV, F1

Specifications

| | |
|-------------------------------|--------------------------|
| Armature Voltage | 180 V |
| Base Speed | 1750 rpm |
| Enclosure | TENV |
| Frame | 56C |
| Frame Material | Steel |
| Output Power | 0.330 HP |
| Agency Approvals | CE CSA UR |
| Ambient Temperature | 40 °C |
| Armature Current | 1.6 a |
| Armature Inertia | 6.318 lb-ft ² |
| Base Indicator | Rigid |
| Bearing Grease Type | Polyrex EM (-20F +300F) |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Feedback Device | NO FEEDBACK |
| Heater Indicator | No Heater |
| Lifting Lugs | No Lifting Lugs |
| Motor Lead Exit | Ko Box |
| Motor Lead Quantity/Wire Size | 2 @ 18 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Mounting Arrangement | F1 |
| Overall Length | 13.19 IN |
| Product Family | Wash Down |
| Pulley End Bearing Type | Sealed Bearing |
| Service Factor | 1.00 |
| Shaft Diameter | 0.625 IN |
| Shaft Extension Location | Pulley End |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |

Part detail

| | |
|--------------|------------|
| Revision | AJ |
| Type | DC |
| Mech. spec. | 33-2154 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 33WGZ131 |
| Layout | 33LY2154 |
| Eff. date | 08-20-2024 |
| CD Diagram | CD0194 |
| Poles | 00 |
| Leads | |
| Proprietary | False |
| Created date | 01-01-0001 |

Shaft Slinger Indicator

Shaft Slinger

Nameplate

| NP1509 | | | | | |
|-----------------|--------------|----------------|-------|----------------|---|
| CAT.NO. | CDPWD3316 | | | | |
| SPEC. | 33-2154Z131 | | | | |
| HP | .33 | ENCL | TENV | | |
| RPM | 1750 1/MIN | | | | |
| FRAME | 56C | TYPE | 3327P | | |
| ARM V | 180 | ARM A | 1.6 | | |
| FLD V | | FLD A | | | |
| INSUL | F | AMB. | 40 | | |
| DUTY | CONT | SUPPLY | 1.3 | | |
| BRG/DE | 6203 | BRG/ODE | 6203 | | |
| BRUSHES | 2/BP5011CV01 | | | | |
| | IP55 | BLANK | IC410 | | |
| SER. | | | | | |
| BLANK | KW.25 KG12 | | | | |
| APRV-CSA | Y | APRV-UL | Y | APRV-CE | Y |

DC Motor Performance Data

Record # 217

Typical performance - not guaranteed values

| Winding: 33WGZ131-R001 | | Type: 3327P | Enclosure: TENV |
|-------------------------------|--------------|--------------------------------|------------------------|
| Nameplate Data | | General Characteristics | |
| Rated Output (HP) | 0.33 | Armature Resistance @ 25°C | 4.331 Ω |
| R.P.M. | 1750 | | |
| Armature Volts | 180 | | |
| Armature Amps | 1.6 | | |
| Field Volts | | Armature Inductance | 39.666 mH |
| Field Amps | | | |
| Rating - Duty | 40C AMB-CONT | | |
| Form Factor | 1.3 | | |

Load Characteristics at 180 Armature Volts

| Load Point | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------------------|------|-------|-------|------|-------|-------|------|
| Armature Amps | 0.18 | 0.89 | 1.16 | 1.53 | 1.88 | 2.22 | 2.87 |
| R.P.M. | 1727 | 1679 | 1662 | 1633 | 1620 | 1595 | 1556 |
| Torque (LB-FT) | 0 | 0.516 | 0.752 | 1.01 | 1.268 | 1.525 | 2.02 |

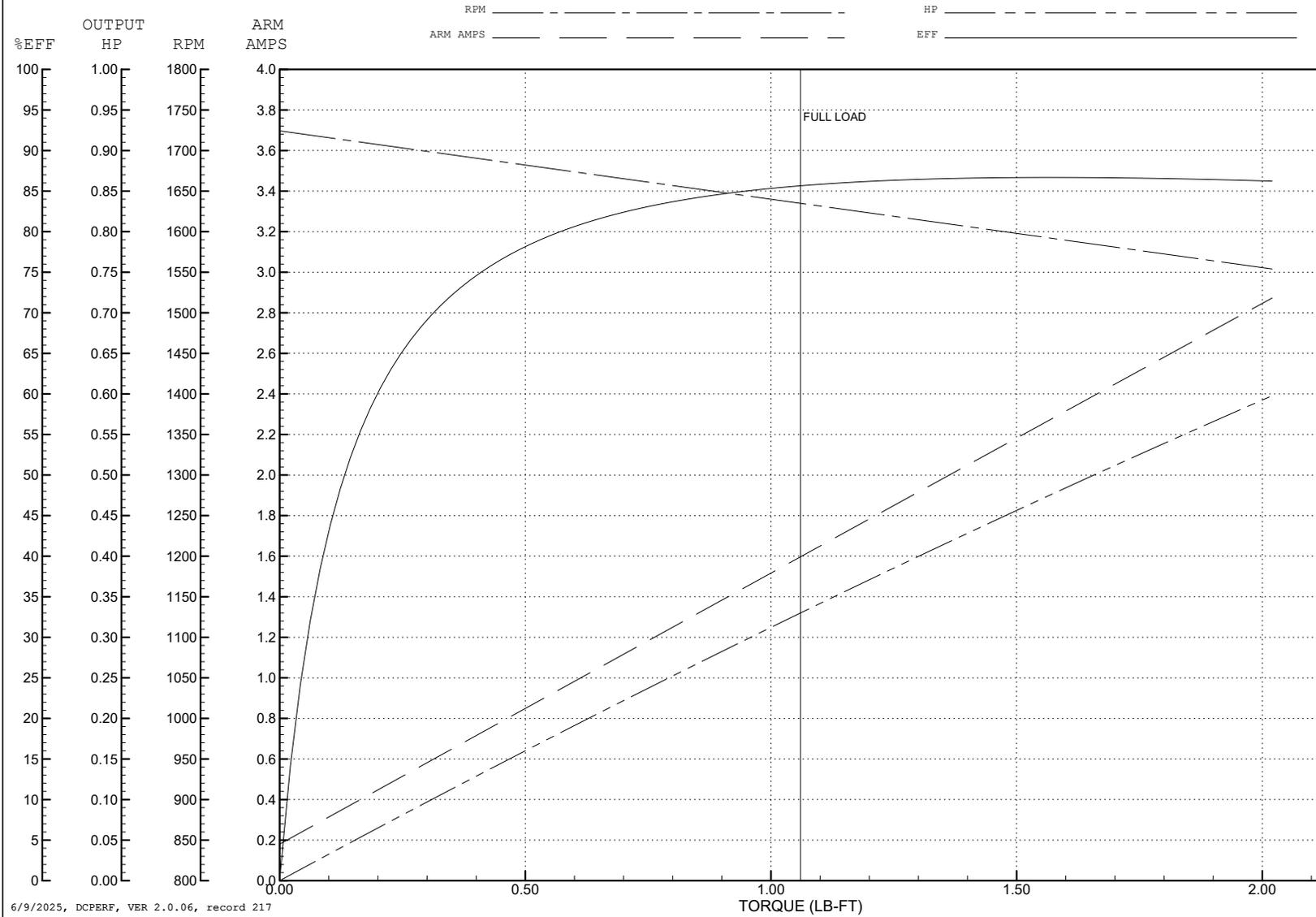
ABB Motors and Mechanical Inc.

WINDING # 33WGZ131

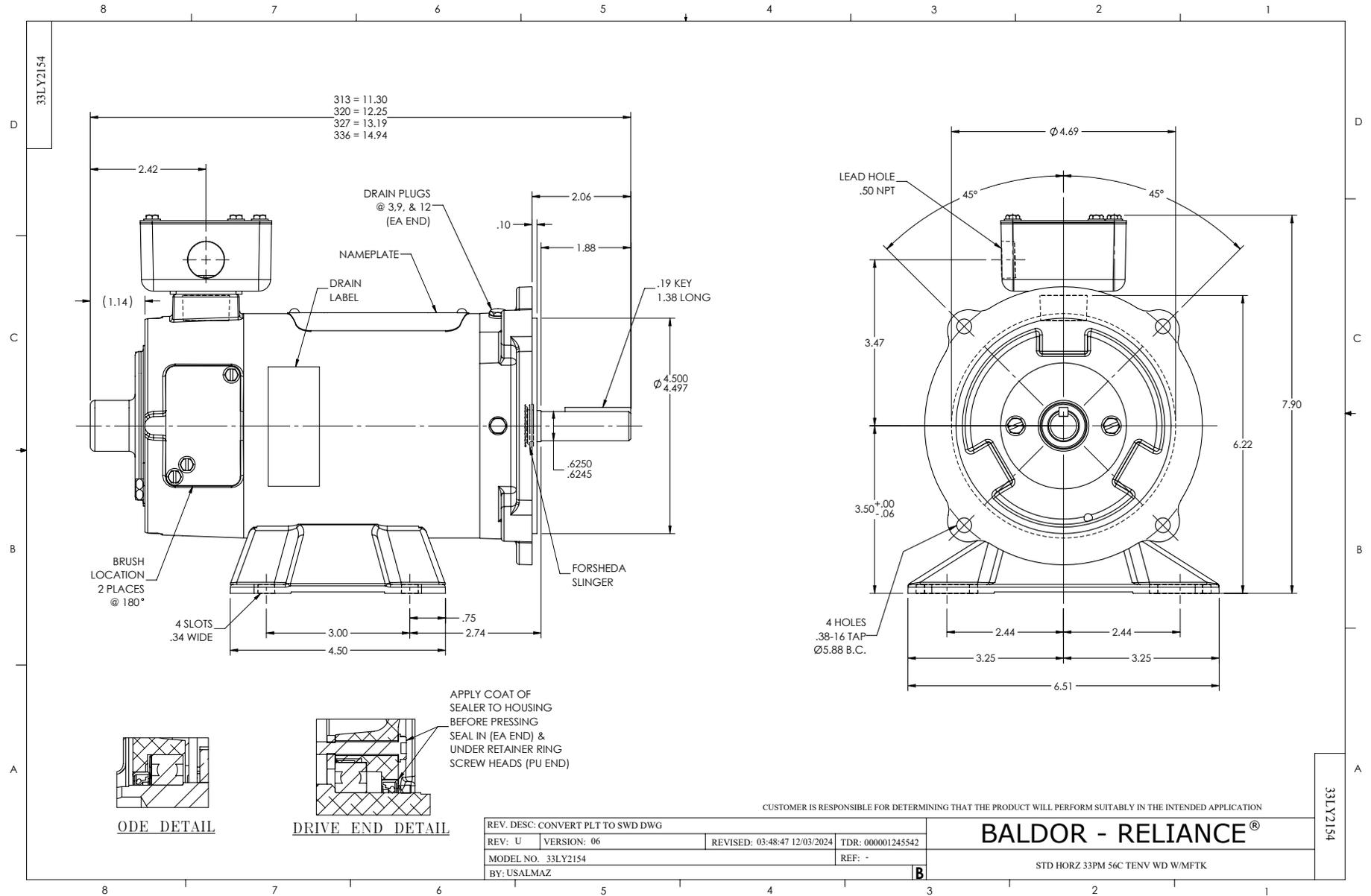
0.33 HP DC 1750 RPM 180 V 3327P

Typical performance - not guaranteed values.

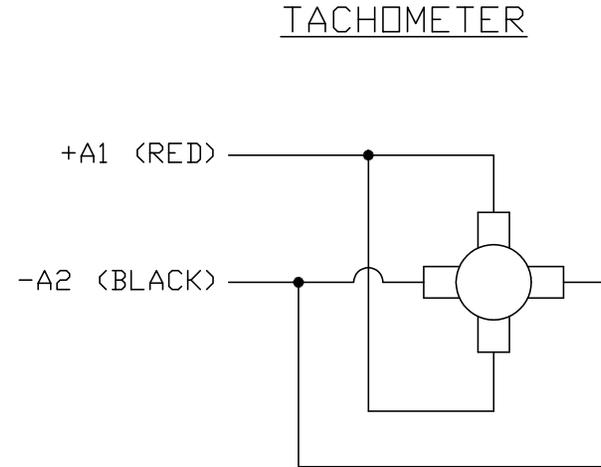
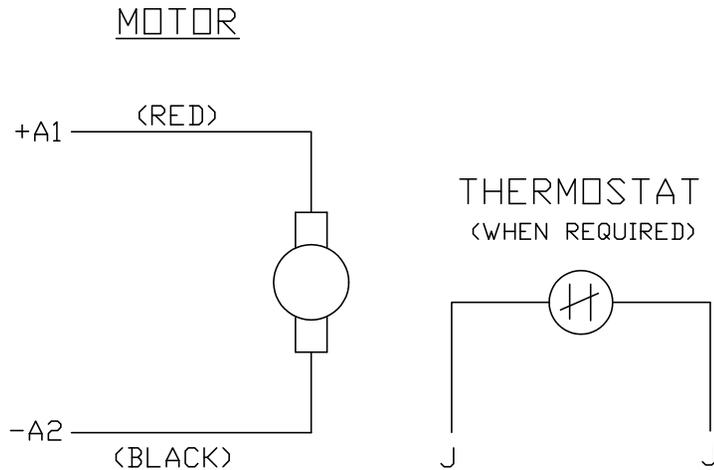
ENCL: TENV DUTY: CONT CL: F



6/9/2025, DCPERF, VER 2.0.06, record 217



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.

| | | | |
|---------|--|--------------|-------------------|
| MATL: - | | | |
| REV: E | ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &..." | | |
| 761000 | SCALE: - | BY: CK | REVISED: 07/28/95 |
| | FILE: AAA00004503 | TDR: 0078737 | |

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194