

BALDOR® • RELIANCE™

Customer information packet

CDP3320

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

Specifications

| | |
|-------------------------------|---------------------------|
| Armature Voltage | 90 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 | 3.2 a |
| Armature Inertia | 10.535 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, A |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Mounting Arrangement | F1 |
| Overall Length | 13.19 IN |
| Product Family | General Purpose |
| 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 | AE |
| Type | DC |
| Mech. spec. | 33-2024 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 33WGZ102 |
| Layout | 33LY2024 |
| Eff. date | 10-24-2024 |
| CD Diagram | CD0194 |
| Poles | 00 |
| Leads | 2#18 A Y |
| Proprietary | False |
| Created date | 01-01-0001 |

Shaft Slinger Indicator

No Slinger

Nameplate

| NP0891L | | | | | |
|----------------|----------------------------|-----------------|-------|----------------|---|
| CAT.NO. | CDP3320 | | | | |
| SPEC. | 33-2024Z102 | | | | |
| HP | .33/KW.25 | ENCL | TENV | | |
| RPM | 1750 1/MIN IP44 IC410 KG12 | | | | |
| FRAME | 56C | TYPE | 3327P | | |
| ARM V | 90 | ARM A | 3.2 | | |
| FLD V | | FLD A | | | |
| INSUL | F | AMB. | 40 | | |
| DUTY | CONT | SUPPLY | 1.3 | | |
| BRG/DE | 6203 | BRG/ODE | 6203 | | |
| BRUSHES | 2/BP5011T01 | | | | |
| | | BLANK | | | |
| SER. | | | | | |
| BLANK | | | | | |
| 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 | |

DC Motor Performance Data

Record # 208

Typical performance - not guaranteed values

| Winding: 33WGZ102-R001 | | Type: 3327P | Enclosure: TENV |
|-------------------------------|--------------|--------------------------------|------------------------|
| Nameplate Data | | General Characteristics | |
| Rated Output (HP) | 0.33 | | |
| R.P.M. | 1750 | | |
| Armature Volts | 90 | | |
| Armature Amps | 3.2 | | |
| Field Volts | | | |
| Field Amps | | | |
| Rating - Duty | 40C AMB-CONT | | |
| Form Factor | 1.3 | | |

Load Characteristics at 90 Armature Volts

| Load Point | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------------|----------|----------|----------|----------|----------|----------|----------|
| Armature Amps | 0.25 | 0.85 | 1.55 | 2.25 | 2.9 | 3.3 | 4.2 |
| R.P.M. | 1831 | 1796 | 1745 | 1703 | 1665 | 1627 | 1592 |
| Torque (LB-FT) | 0 | 0.23 | 0.49 | 0.74 | 0.99 | 1.23 | 1.47 |

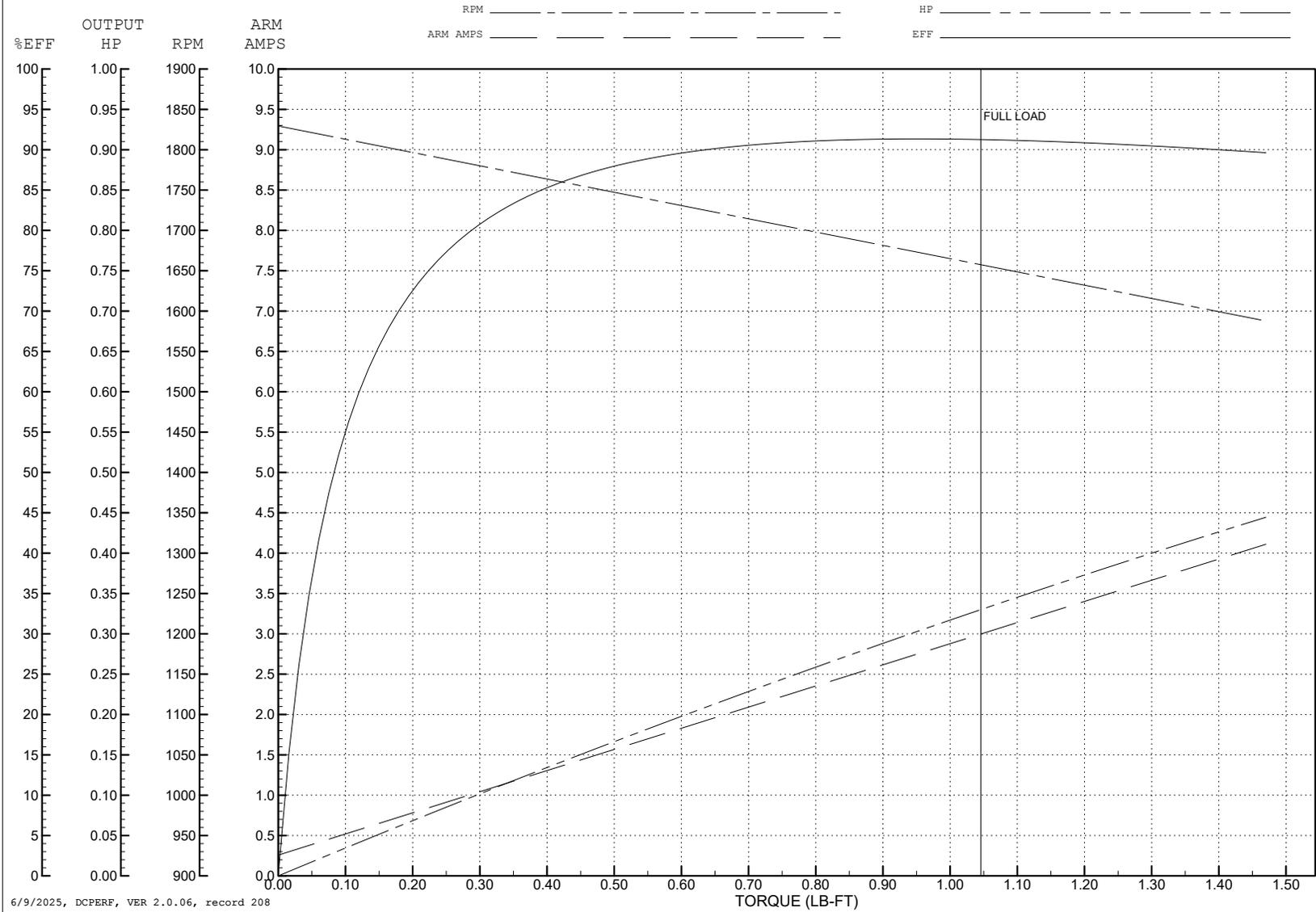
ABB Motors and Mechanical Inc.

WINDING # 33WGZ102

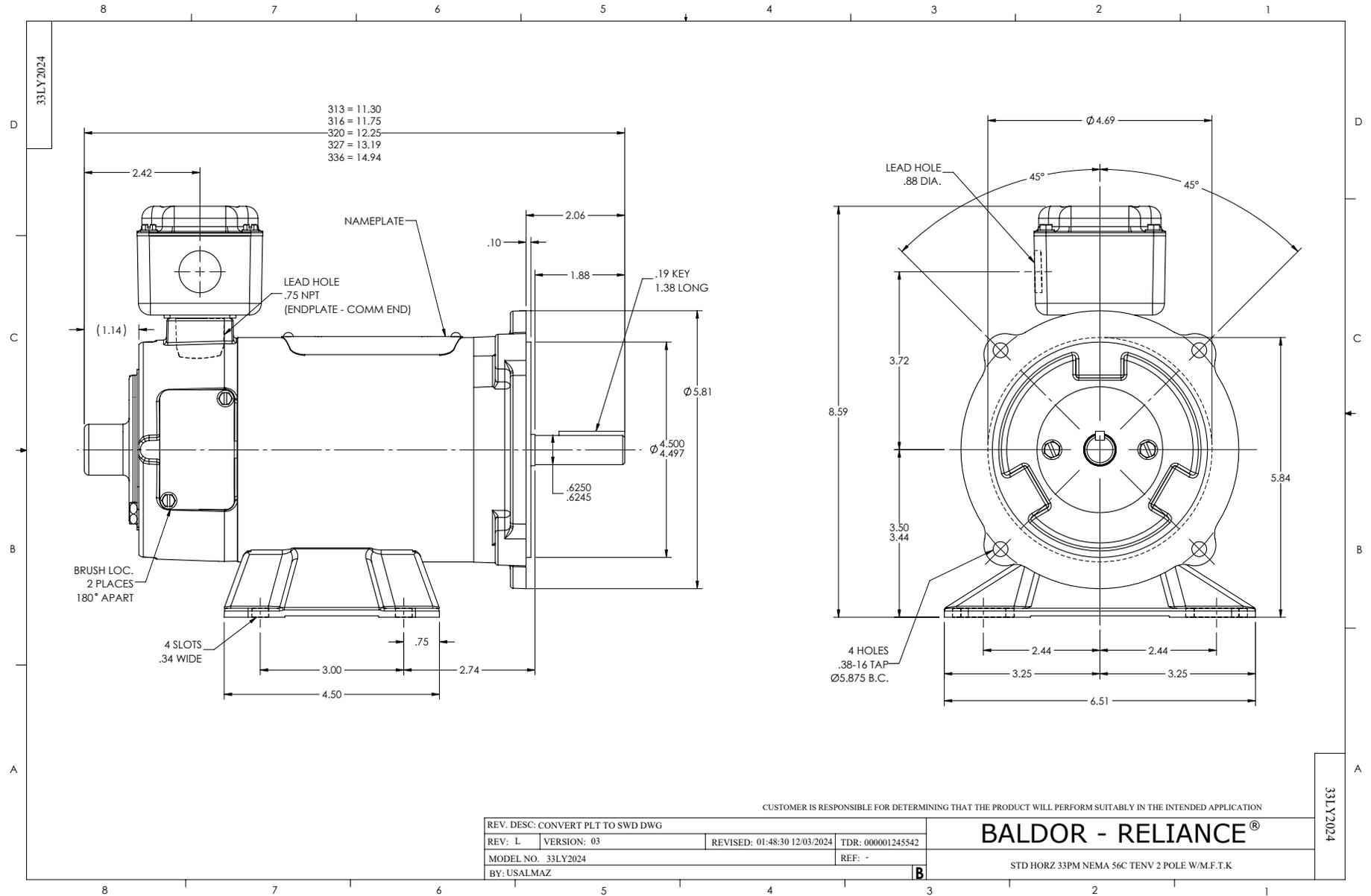
0.33 HP DC 1750 RPM 90 V 3327P

Typical performance - not guaranteed values.

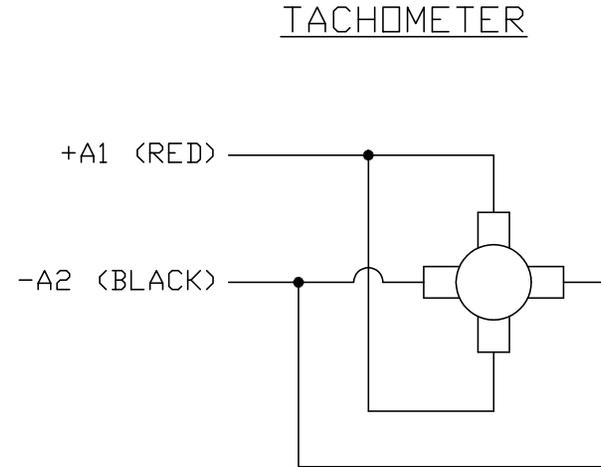
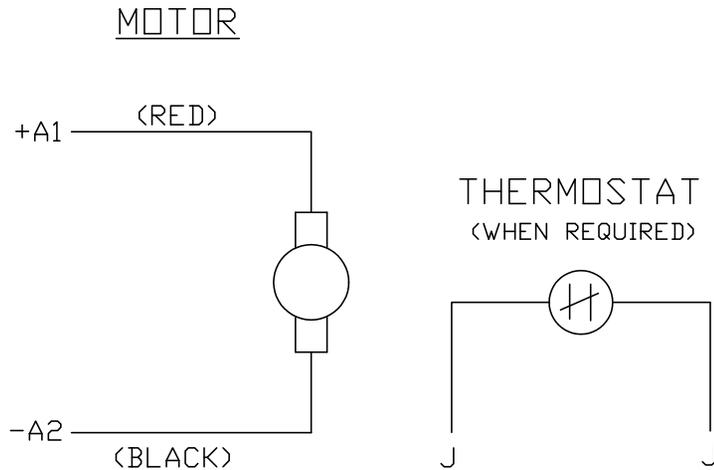
ENCL: TENV DUTY: CONT CL: F



6/9/2025, DCPERF, VER 2.0.06, record 208



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 &..." | | |
| CD0194 | SCALE: - | BY: CK | REVISED: 07/28/95 |
| | FILE: AAA00004503 | TDR: 0078737 | |

BALDOR ELECTRIC Co.

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194