

# ABB BALDOR RELIANCE III

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## Customer information packet CDP3320

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

**Specifications**

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Armature Voltage</b>              | 90 V                      |
| <b>Base Speed</b>                    | 1750 rpm                  |
| <b>Enclosure</b>                     | TENV                      |
| <b>Frame</b>                         | 56C                       |
| <b>Frame Material</b>                | Steel                     |
| <b>Output Power</b>                  | 0.330 HP                  |
| <b>Agency Approvals</b>              | CE                        |
|                                      | CSA                       |
|                                      | UR                        |
| <b>Ambient Temperature</b>           | 40 °C                     |
| <b>Armature Current</b>              | 3.2 a                     |
| <b>Armature Inertia</b>              | 10.535 lb-ft <sup>2</sup> |
| <b>Base Indicator</b>                | Rigid                     |
| <b>Bearing Grease Type</b>           | Polyrex EM (-20F +300F)   |
| <b>Drip Cover</b>                    | No Drip Cover             |
| <b>Duty Rating</b>                   | CONT                      |
| <b>Feedback Device</b>               | NO FEEDBACK               |
| <b>Heater Indicator</b>              | No Heater                 |
| <b>Lifting Lugs</b>                  | No Lifting Lugs           |
| <b>Motor Lead Exit</b>               | Ko Box                    |
| <b>Motor Lead Quantity/Wire Size</b> | 2 @ 18 AWG, A             |
| <b>Motor Lead Termination</b>        | Flying Leads              |
| <b>Motor Standards</b>               | NEMA                      |
| <b>Mounting Arrangement</b>          | F1                        |
| <b>Overall Length</b>                | 13.19 IN                  |
| <b>Product Family</b>                | General Purpose           |
| <b>Pulley End Bearing Type</b>       | Sealed Bearing            |
| <b>Service Factor</b>                | 1.00                      |
| <b>Shaft Diameter</b>                | 0.625 IN                  |
| <b>Shaft Extension Location</b>      | Pulley End                |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding        |
| <b>Shaft Rotation</b>                | Reversible                |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | AE         |
| <b>Type</b>         | DC         |
| <b>Mech. spec.</b>  | 33-2024    |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 33WGZ102   |
| <b>Layout</b>       | 33LY2024   |
| <b>Eff. date</b>    | 10-24-2024 |
| <b>CD Diagram</b>   | CD0194     |
| <b>Poles</b>        | 00         |
| <b>Leads</b>        | 2#18 A Y   |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-01-0001 |

**Shaft Slinger Indicator**

**No Slinger**

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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 |

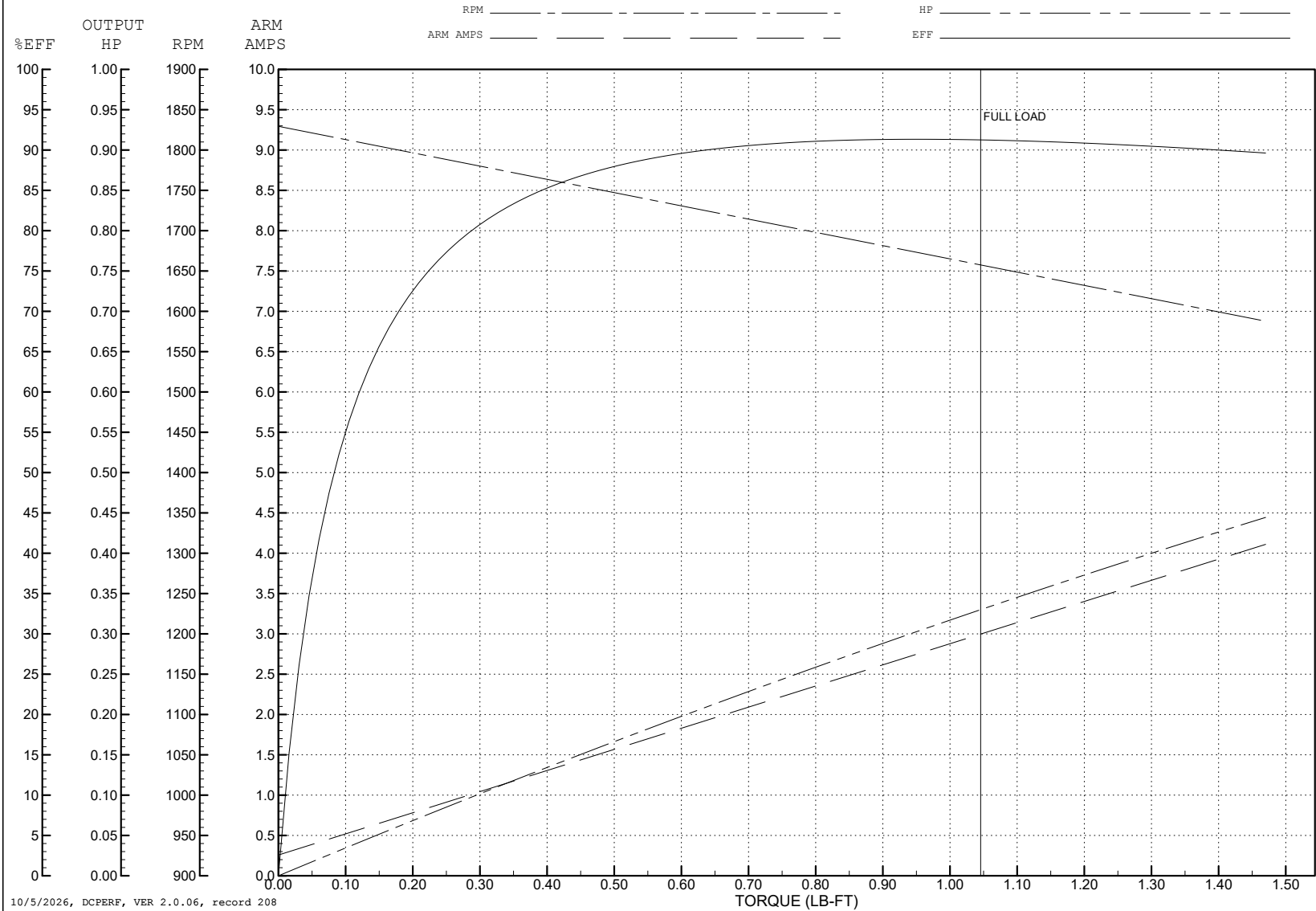
ABB Motors and Mechanical Inc.

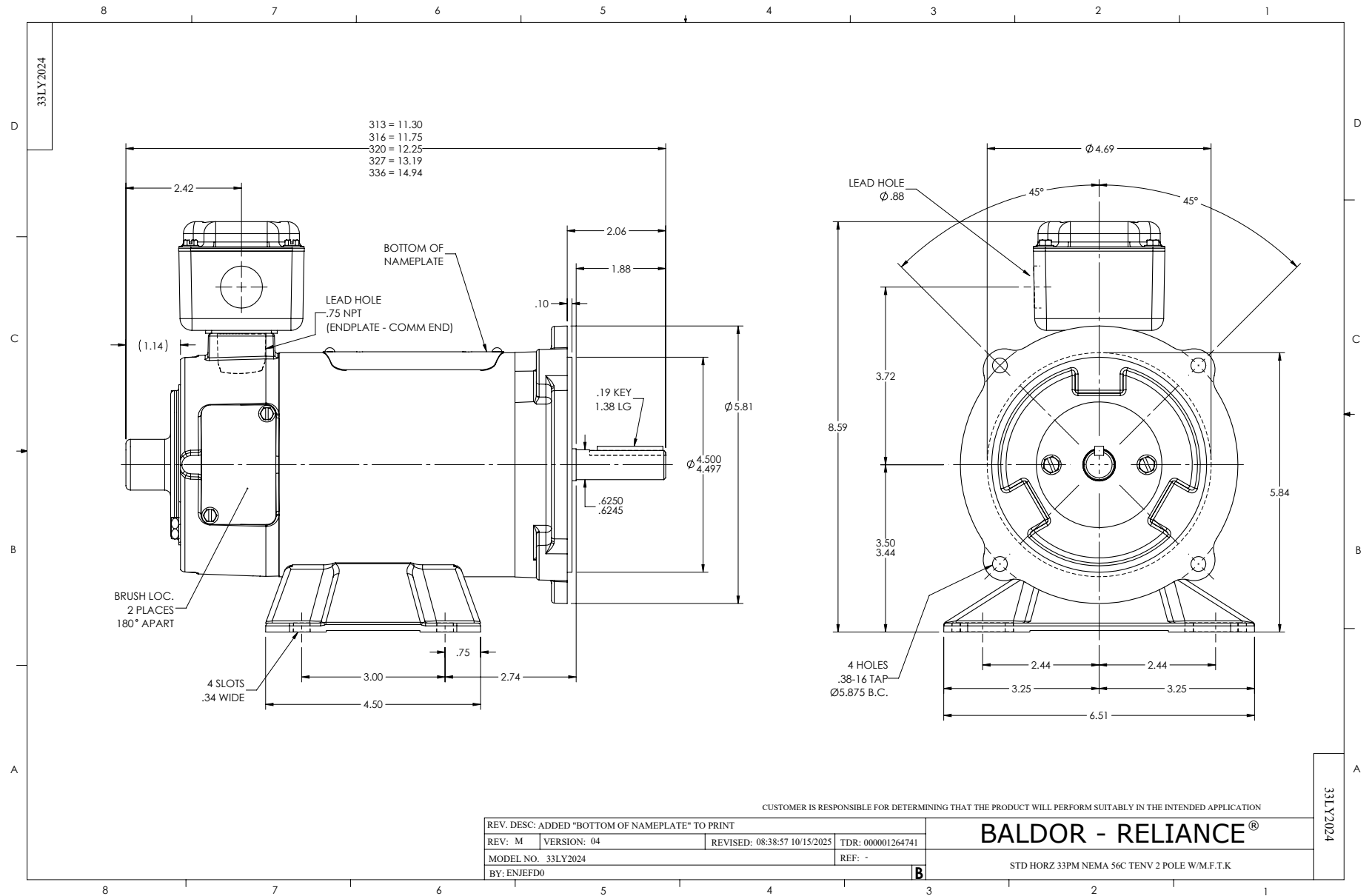
WINDING # 33WGZ102

Typical performance - not guaranteed values.

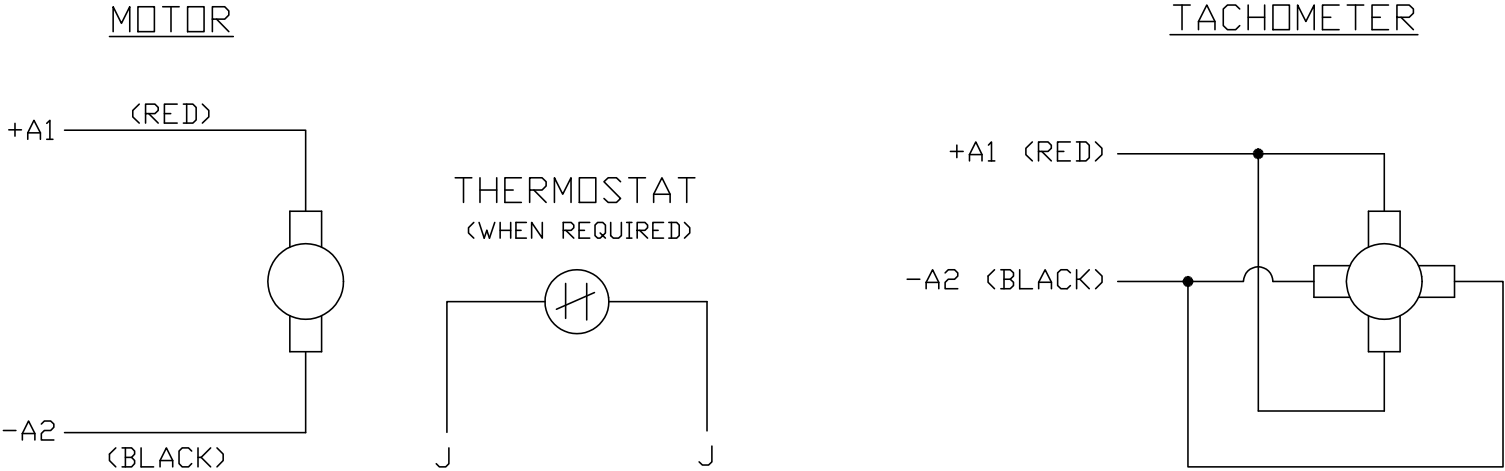
0.33 HP DC 1750 RPM 90 V 3327P

ENCL: TENV DUTY: CONT CL: F





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