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# Customer information packet

## CDPT3316

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

## Specifications

|                               |                          |
|-------------------------------|--------------------------|
| Armature Voltage              | 180 V                    |
| Base Speed                    | 1750 rpm                 |
| Enclosure                     | TENV                     |
| Frame                         | 56C                      |
| Frame Material                | Steel                    |
| Output Power                  | 0.330 HP                 |
| Agency Approvals              | CE<br>CSA<br>UR<br>WEEE  |
| Ambient Temperature           | 40 °C                    |
| Armature Current              | 1.6 a                    |
| Armature Inertia              | 6.318 lb-ft <sup>2</sup> |
| Base Indicator                | Rigid                    |
| Bearing Grease Type           | Polyrex EM (-20F +300F)  |
| Drip Cover                    | No Drip Cover            |
| Duty Rating                   | CONT                     |
| Feedback Device               | TACHOMETER               |
| Heater Indicator              | No Heater                |
| Insulation Class              | F                        |
| Lifting Lugs                  | No Lifting Lugs          |
| Motor Lead Quantity/Wire Size | 2 @ 18 AWG               |
| Motor Lead Termination        | Flying Leads             |
| Motor Standards               | NEMA                     |
| Mounting Arrangement          | F1                       |
| Overall Length                | 14.99 IN                 |
| Product Family                | General Purpose          |
| Pulley End Bearing Type       | Sealed Bearing           |
| RoHS Status                   | ROHS COMPLIANT           |
| Service Factor                | 1.00                     |
| Shaft Diameter                | 0.625 IN                 |
| Shaft Ground Indicator        | No Shaft Grounding       |

## Part detail

|              |            |
|--------------|------------|
| Revision     | H          |
| Type         | DC         |
| Mech. spec.  | 33-2657    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 33WGZ131   |
| Layout       | 33LY2657   |
| Eff. date    | 10-24-2024 |
| CD Diagram   | CD0194     |
| Poles        | 00         |
| Leads        |            |
| Proprietary  | False      |
| Created date | 06-25-2019 |

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

## Nameplate

| NP0891L |              |          |   |         |   |
|---------|--------------|----------|---|---------|---|
| CAT.NO. | CDPT3316     |          |   |         |   |
| SPEC.   | 33-2657Z131  |          |   |         |   |
| HP      | .33/KW.25    | 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 |          |   |         |   |
|         | IP44         | BLANK    |   | KG14    |   |
| SER.    |              |          |   |         |   |
| BLANK   | IC410        |          |   |         |   |
| APRV-CE | Y            | APRV-CSA | Y | APRV-UL | 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<br>@ 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

Typical performance - not guaranteed values.

0.33 HP DC 1750 RPM 180 V 3327P

ENCL: TENV DUTY: CONT CL: F





