



---

# Customer information packet

## CDP3326

0.5HP, RPM, DC, 56C, 3336P, TENV, F1, N

## Specifications

|                               |                          |
|-------------------------------|--------------------------|
| Armature Voltage              | 180 V                    |
| Base Speed                    | 1750 rpm                 |
| Enclosure                     | TENV                     |
| Frame                         | 56C                      |
| Frame Material                | Steel                    |
| Output Power                  | 0.500 HP                 |
| Agency Approvals              | CE<br>CSA<br>UR          |
| Ambient Temperature           | 40 °C                    |
| Armature Current              | 2.5 a                    |
| Armature Inertia              | 8.424 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               | 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                | 14.94 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 Extension Location      | Pulley End               |
| Shaft Ground Indicator        | No Shaft Grounding       |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AH         |
| Type         | DC         |
| Mech. spec.  | 33-2051    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 33WGZ139   |
| Layout       | 33LY2051   |
| 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

| NP0891L |                 |          |   |         |   |
|---------|-----------------|----------|---|---------|---|
| CAT.NO. | CDP3326         |          |   |         |   |
| SPEC.   | 33-2051Z139     |          |   |         |   |
| HP      | .5/.37KW        | ENCL     |   | TENV    |   |
| RPM     | 1750 1/MIN      |          |   |         |   |
| FRAME   | 56C             | TYPE     |   | 3336P   |   |
| ARM V   | 180             | ARM A    |   | 2.5     |   |
| FLD V   |                 | FLD A    |   |         |   |
| INSUL   | F               | AMB.     |   | 40      |   |
| DUTY    | S1 CONT         | SUPPLY   |   | 1.3     |   |
| BRG/DE  | 6203            | BRG/ODE  |   | 6203    |   |
| BRUSHES | 2/BP5011CV01    |          |   |         |   |
|         |                 | BLANK    |   |         |   |
| SER.    |                 |          |   |         |   |
| BLANK   | IP44 IC410 14KG |          |   |         |   |
| 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 # 2018

Typical performance - not guaranteed values

| Winding: 33WGZ139-R010 |              | Type: 3336P                   | Enclosure: TENV        |
|------------------------|--------------|-------------------------------|------------------------|
| Nameplate Data         |              | General Characteristics       |                        |
| Rated Output (HP)      | 0.5          | Armature Resistance<br>@ 25°C | 3.08 Ω                 |
| R.P.M.                 | 1750         |                               |                        |
| Armature Volts         | 180          | Voltage Constant              | 95.88 v/krpm           |
| Armature Amps          | 2.5          |                               |                        |
| Field Volts            |              | Armature Inductance           | 28.39697 mH            |
| Field Amps             |              | Armature Inertia              | 8.4241 LI <sup>2</sup> |
| 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    | 0.15 | 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





