



## Product Information Packet

# CDPT3316

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

| Part Detail |      |             |       |                |          |               |            |
|-------------|------|-------------|-------|----------------|----------|---------------|------------|
| Revision:   | Q    | Status:     | PRD/A | Change #:      |          | Proprietary:  | No         |
| Type:       | DC   | Prod. Type: | 3327P | Elec. Spec:    | 33WGZ131 | CD Diagram:   | CD0194     |
| Enclosure:  | TENV | Mfg Plant:  |       | Mech. Spec:    | 33-2156  | Layout:       | 33LY2156   |
| Frame:      | 56C  | Mounting:   | F1    | Poles:         | 00       | Created Date: |            |
| Base:       | RG   | Rotation:   | R     | Insulation:    | F        | Eff. Date:    | 08-23-2018 |
| Field Type: |      | Literature: |       | Elec. Diagram: |          | Replaced By:  |            |

| Specs                          |                         |  |  |
|--------------------------------|-------------------------|--|--|
| Enclosure:                     | TENV                    |  |  |
| Frame:                         | 56C                     |  |  |
| Frame Material:                | Steel                   |  |  |
| Agency Approvals:              | CE                      |  |  |
|                                | CSA                     |  |  |
|                                | UR                      |  |  |
|                                | WEEE                    |  |  |
| 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              |  |  |

|                                  |                    |  |  |
|----------------------------------|--------------------|--|--|
| <b>Motor Lead Exit:</b>          | Ko Box             |  |  |
| <b>Motor Lead Termination:</b>   | Flying Leads       |  |  |
| <b>Mounting Arrangement:</b>     | F1                 |  |  |
| <b>Product Family:</b>           | General Purpose    |  |  |
| <b>Pulley End Bearing Type:</b>  | Sealed Bearing     |  |  |
| <b>Shaft Extension Location:</b> | Pulley End         |  |  |
| <b>Shaft Ground Indicator:</b>   | No Shaft Grounding |  |  |
| <b>Shaft Rotation:</b>           | Reversible         |  |  |
| <b>Shaft Slinger Indicator:</b>  | No Slinger         |  |  |
| <b>Motor Standards:</b>          | NEMA               |  |  |

## Nameplate NP0891L

|         |              |          |       |
|---------|--------------|----------|-------|
| CAT.NO. | CDPT3316     |          |       |
| SPEC.   | 33-2156Z131  |          |       |
| HP      | .33          | ENCL     | TENV  |
| RPM     | 1750         |          |       |
| 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 |          |       |
|         |              | BLANK    |       |
| SER.    |              |          |       |
| BLANK   |              |          |       |
| APRV-CE | Y            | APRV-CSA | Y     |
|         |              | APRV-UL  | Y     |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA005107      | SA 33-2156Z131                           | 1.000 EA |
| AA002756      | AA 33-2156Z131                           | 1.000 EA |
| BP5011CV01SP  | CARBON BRUSH - 33P, 180V                 | 1.000 EA |
| BP5012A04SP   | BRUSH SPRING FOR DC MOTORS               | 1.000 EA |
| 33GS1006A01   | GASKET CONDUIT BOX (LEXIDE)              | 1.000 EA |
| 51XT0832A08   | 8-32 X 1/2 TY23 HXWS SLDSR               | 3.000 EA |
| 51XW0832G07   | 8-32 X 7/16 TY23 HXWS SLDSR GR           | 1.000 EA |
| HW3001B01     | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| 33EP3101A04   | FR ENDPLATE, MACH                        | 1.000 EA |
| HA6340A01     | TG-300 TACH. ADAPTER MACH'D FOR 33 FRAME | 1.000 EA |
| 84XN2520J12   | 1/4-20 X 3/4 SOC.HD CAP SCR              | 4.000 EA |
| HW1001A25     | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| 33CB4507      | COVER- 33 TACH. ADAP(CLOWTDR 10478 ORDER | 1.000 EA |
| 33GS5000      | GASKET-COVER 33 TACH ADAPTER             | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 3.000 EA |
| XY3824A12     | .375-24 UNF-2B HEX NUT                   | 1.000 EA |
| HW1001A38     | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 1.000 EA |
| HW1000A38     | WASHER, 3/8" FLAT, SAE Z/P               | 1.000 EA |
| 18XN0632A16   | FLAT HEAD SCREW                          | 2.000 EA |
| 12XN0440A12   | 4-40X.750 SLOTTED HEX HD CAP ZN          | 2.000 EA |
| HW1001A04     | WASHER, #4 SPLT LK ZINC                  | 2.000 EA |
| WD4100A26     | HEYCO UNIVERSAL BUSHING P/N 2089, MTG HO | 1.000 EA |
| 33CB4501A01SP | BRUSH INSPECTION COVER                   | 2.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 33GS1005A01            | GASKET, BRUSH INSP. COVERELECTRICLY NON- | 2.000 EA |
| 51XW0832A07            | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW5100A03              | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 33EP3302A10            | PU ENDPLATE, MACH                        | 1.000 EA |
| 51XN1032A20            | 10-32 X 1 1/4 HX WS SL SR                | 2.000 EA |
| 34CB4512               | 34 CB LID, GALVANNEAL STAMPED            | 1.000 EA |
| 34GS1001               | GASKET, STD CONDUIT BOX LID (LEXIDE)     | 1.000 EA |
| 51XW0832A07            | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501D13              | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A04              | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 EA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| 33CB5000A03            | 33P BOX & LEAD ASSY                      | 1.000 EA |
| X3B003Z029             | TACH TG-300 50V .625BORE W/NOTCH CW      | 1.000 EA |
| MG1000G27              | MED CHARCOAL METALLIC GREY 400-0096      | 0.013 GA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| 33RK5004SP             | ROCKERARM                                | 1.000 EA |
| HA3100S02              | THRUBOLT - 10-32 X 9.00 SS               | 2.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 5/18  | 1.000 EA |
| LC0194                 | CONNECTION LABEL                         | 1.000 EA |
| NP0891L                | NP STD LASER ENGRAVED DC MTRS, UL CSA CE | 1.000 EA |
| 27PA1001               | PKG GRP, PRINT PK1027A06                 | 1.000 EA |

**DC Motor Performance Data**

Record # 217 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 33WGZ131-R001 | <b>Type:</b> 3327P | <b>Enclosure:</b> TENV |
|-------------------------------|--------------------|------------------------|

| Nameplate Data    |              | General Characteristics       |                |
|-------------------|--------------|-------------------------------|----------------|
| Rated Output (HP) | 0.33         | Armature Resistance<br>@ 25°C | 4.331 $\Omega$ |
| 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 |

Performance Graph at 180.0 Arm V, 0.33HP Typical performance - Not guaranteed values





