

BALDOR® • **RELIANCE**

Product Information Packet

CDP3330

.5HP,1750RPM,DC,56C,3336P,TENV,F1

| Part Detail | | | | | | | |
|-------------|------|-------------|-------|----------------|----------|---------------|------------|
| Revision: | V | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | DC | Prod. Type: | 3336P | Elec. Spec: | 33WGZ122 | CD Diagram: | CD0194 |
| Enclosure: | TENV | Mfg Plant: | | Mech. Spec: | 33-2024 | Layout: | 33LY2024 |
| Frame: | 56 | Mounting: | F1 | Poles: | 00 | Created Date: | |
| Base: | RG | Rotation: | R | Insulation: | F | Eff. Date: | 05-27-2011 |
| Field Type: | | Literature: | | Elec. Diagram: | | Replaced By: | |

| Specs | | | |
|--------------------------------|-------------------------|--|--|
| Enclosure: | TENV | | |
| Frame: | 56C | | |
| Frame Material: | Steel | | |
| Agency Approvals: | CE | | |
| | CSA | | |
| | UR | | |
| 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 | | |
| Insulation Class: | F | | |
| Lifting Lugs: | No Lifting Lugs | | |
| Motor Lead Quantity/Wire Size: | 2 @ 18 AWG, A | | |
| Motor Lead Exit: | Ko Box | | |

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

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|--------------------------|----------------------------|----------|----------------------------|
| Nameplate NP0891L | | | |
| CAT.NO. | CDP3330 | | |
| SPEC. | 33-2024Z122 | | |
| HP | .5 | ENCL | TENV |
| RPM | 1750 | | |
| FRAME | 56C | TYPE | 3336P |
| ARM V | 90 | ARM A | 4.8 |
| FLD V | | FLD A | |
| INSUL | F | AMB. | 40 |
| DUTY | CONT | SUPPLY | 1.3 |
| BRG/DE | 6203 | BRG/ODE | 6203 |
| BRUSHES | 2/BP5011T01 | | |
| SER. | | BLANK | |
| BLANK | | | |
| APRV-CE | <input type="checkbox"/> Y | APRV-CSA | <input type="checkbox"/> Y |
| | | APRV-UL | <input type="checkbox"/> Y |

| Parts List | | |
|---------------|--|----------|
| Part Number | Description | Quantity |
| SA005026 | SA 33-2024Z122 | 1.000 EA |
| AA002675 | AA 33-2024Z122 | 1.000 EA |
| BP5011T01SP | CARBON BRUSH - 33P, 90V | 1.000 EA |
| BP5012A04SP | BRUSH SPRING FOR DC MOTORS | 1.000 EA |
| 33CB5000A03 | 33P BOX & LEAD ASSY | 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 #8 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 |
| 33CB4501A01SP | BRUSH INSPECTION COVER | 2.000 EA |
| 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 |
| HA6887 | SHAFT PROTECTOR STAMPED STEEL 20 GA. | 1.000 EA |
| 10XN2520A06 | 1/4 20X3/8 HX HD CAP | 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 |

| Parts List (continued) | | |
|-------------------------------|--|-----------------|
| Part Number | Description | Quantity |
| MG1000G27 | MED CHARCOAL METALLIC GREY 400-0096 | 0.013 GA |
| 10XF0440S02 | 04-40 X 1/8 TYPE F HEX HD STAINLESS STIC | 2.000 EA |
| 33RK5004SP | ROCKERARM | 1.000 EA |
| HA3100S03 | THRUBOLT- 10-32 X 10.625 302 OR 303 SS | 2.000 EA |
| LB1119N | WARNING LABEL | 1.000 EA |
| LC0194 | CONNECTION LABEL | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1100/bx) 11/14 | 1.000 EA |
| NP0891L | NP STD LASER ENGRAVED DC MTRS, UL CSA CE | 1.000 EA |
| 27PA1001 | PKG GRP, PRINT PK1027A06 | 1.000 EA |

| Accessories | | |
|--------------------|---------------------------------|-------------------|
| Part Number | Description | Multiplier |
| TK3300 | TACHO MOUNTING KIT TK3300 | A8 |
| TK3300-HPU | HPU10 MOUNTING KIT 33P/34P TENV | |

DC Motor Performance Data

Record # 2408 - Typical performance - not guaranteed values

| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 33WGZ122-R001 | Type: 3336P | Enclosure: TENV |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | General Characteristics | |
|-------------------|--------------|----------------------------|-----------------------|
| Rated Output (HP) | 0.5 | Armature Resistance @ 25°C | 1.163 Ω |
| R.P.M. | 1750 | | |
| Armature Volts | 90 | Voltage Constant | 47.81 v/krpm |
| Armature Amps | 4.8 | | |
| Field Volts | | Armature Inductance | 14.506 mH |
| Field Amps | | Armature Inertia | 14.05 LI ² |
| 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 | 0.26 | 1.45 | 2.56 | 3.62 | 4.65 | 5.79 | 7 |
| R.P.M. | 1853 | 1777 | 1721 | 1658 | 1629 | 1579 | 1519 |
| Torque (LB-FT) | 0 | 0.38 | 0.76 | 1.14 | 1.5 | 1.9 | 2.28 |

Performance Graph at 90.0 Arm V, 0.5HP Typical performance - Not guaranteed values

