

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **CEL11310**

**1HP,1750RPM,1PH,60HZ,56C,3528LC,OPEN,F1**

| Part Detail |      |                |        |             |          |               |            |
|-------------|------|----------------|--------|-------------|----------|---------------|------------|
| Revision:   | D    | Status:        | PRD/A  | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3528LC | Elec. Spec: | 35WGN264 | CD Diagram:   | CD0055     |
| Enclosure:  | OPEN | Mfg Plant:     |        | Mech. Spec: | 35E021   | Layout:       | 35LYE021   |
| Frame:      | 56C  | Mounting:      | F1     | Poles:      | 04       | Created Date: | 09-30-2014 |
| Base:       | RG   | Rotation:      | R      | Insulation: | B        | Eff. Date:    | 03-17-2016 |
| Leads:      | 6#18 |                |        |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |        |             |          |               |            |

## Nameplate NP3155L

|                |              |  |        |                |       |  |      |  |      |  |
|----------------|--------------|--|--------|----------------|-------|--|------|--|------|--|
| CAT.NO.        | CEL11310     |  |        |                |       |  |      |  |      |  |
| SPEC.          | 35E021N264G1 |  |        |                |       |  |      |  |      |  |
| HP             | 1            |  |        |                |       |  |      |  |      |  |
| VOLTS          | 115/230      |  |        |                |       |  |      |  |      |  |
| AMP            | 8.4/4.2      |  |        |                |       |  |      |  |      |  |
| RPM            | 1750         |  |        |                |       |  |      |  |      |  |
| FRAME          | 56C          |  |        |                | HZ 60 |  |      |  | PH 1 |  |
| SER.F.         | 1.15         |  | CODE K |                | DES L |  | CL B |  |      |  |
| F.L. AVG. EFF. | 82.6         |  |        | PF 93          |       |  |      |  |      |  |
| RATING         | 40C AMB-CONT |  |        |                |       |  |      |  |      |  |
| CC             |              |  |        | USABLE AT 208V |       |  |      |  |      |  |
| DE             | 6205         |  |        | ODE 6203       |       |  |      |  |      |  |
| ENCL           | OPEN         |  | SN     |                |       |  |      |  |      |  |
|                |              |  |        |                |       |  |      |  |      |  |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA287880    | SA 35E021N264G1                          | 1.000 EA |
| RA274083    | RA 35E021N264G1                          | 1.000 EA |
| OC3040F09SP | CYL OIL CAP 40MFD/370V                   | 1.000 EA |
| EC1460A05SP | ELEC CAP, 460-552 MFD, 125V, 2.06D X 3.  | 1.000 EA |
| NS2512A01   | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 35CB3007    | 35 CB CASTING W/.88 DIA. LEAD HOLE       | 1.000 EA |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 35EP3201A03 | STD FR EP OPEN-203BRG-35L OR M FRAME--LE | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA |
| 35CB3801    | CAPACITOR COVER, CAST                    | 1.000 EA |
| HA7010      | CAPACITOR RETENTION CLAMP                | 1.000 EA |
| NS2501A02   | INSULATOR, CAPACITOR BOX                 | 1.000 EA |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 EA |
| HW5100A03   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35EP3400A13 | STD FACE MTD END PLATE OPEN NEMA 56C 05  | 1.000 EA |
| 35AD2000    | AIR BAFFLE                               | 1.000 EA |
| 60XW0632A06 | 6-32 X 3/8 TORX HEAD SCREW TAPTITE II    | 4.000 EA |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR                | 2.000 EA |
| 35CB4521    | 35 LIPPED CB LID (GALV & PHOSPH)         | 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 |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| WD1000A15              | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 4.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1000Y03              | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,      | 0.017 GA |
| HA3100A15              | THRUBOLT 10-32 X 8.375                   | 4.000 EA |
| SP5181A01              | MODEL 35 LC TORQ STAT SWITCH LEAD ASSY   | 1.000 EA |
| LC0001A01              | CONN LABEL / WARNING LABEL (LC0001 / LB1 | 1.000 EA |
| NP3155L                | ALUM SUPER-E UL CSA CC "SEMS"            | 1.000 EA |
| 35PA1066               | PKG GRP, PRINT      PK1008A06            | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 50272 - Typical performance - not guaranteed values

|                               |                     |                        |
|-------------------------------|---------------------|------------------------|
| <b>Winding:</b> 35WGN264-R002 | <b>Type:</b> 3528LC | <b>Enclosure:</b> OPEN |
|-------------------------------|---------------------|------------------------|

| Nameplate Data        |              |              |    | 115 V, 60 Hz:<br>Low Voltage Connection |                                           |
|-----------------------|--------------|--------------|----|-----------------------------------------|-------------------------------------------|
| Rated Output (HP)     | 1            |              |    | Full Load Torque                        | 2.97 LB-FT                                |
| Volts                 | 115/230      |              |    | Start Configuration                     | direct on line                            |
| Full Load Amps        | 8.4/4.2      |              |    | Breakdown Torque                        | 8.18 LB-FT                                |
| R.P.M.                | 1750         |              |    | Pull-up Torque                          | 7.24 LB-FT                                |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                     | 9.05 LB-FT                                |
| NEMA Design Code      | L            | KVA Code     | K  | Starting Current                        | 73.1 A                                    |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                         | 2.55 A                                    |
| NEMA Nom. Eff.        | 82.6         | Power Factor | 93 | Line-line Res. @ 25°C                   | 0.615 $\Omega$ A Ph<br>2.15 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                 | 17°C                                      |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                  | 20°C                                      |
|                       |              |              |    | Rotor inertia                           | 0.166 LB-FT <sup>2</sup>                  |

**Load Characteristics 115 V, 60 Hz, 1 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 78   | 87   | 91   | 93   | 94   | 94   | 97   |
| Efficiency      | 57.9 | 74.6 | 81.1 | 83.7 | 84.1 | 82.9 | 85.8 |
| Speed           | 1788 | 1779 | 1769 | 1758 | 1744 | 1729 | 1753 |
| Line amperes    | 3.65 | 4.96 | 6.55 | 8.27 | 10.3 | 12.5 | 8.95 |

## Performance Graph at 115V, 60Hz, 1.0HP Typical performance - Not guaranteed values







