

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **L3510**

**1HP,1725RPM,1PH,60HZ,56H,3524L,TEFC,F1,N**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | AM   | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3524L | Elec. Spec: | 35WGX945 | CD Diagram:   | CD0001     |
| Enclosure:  | TEFC | Mfg Plant:     |       | Mech. Spec: | 35J383   | Layout:       | 35LYJ383   |
| Frame:      | 56H  | Mounting:      | F1    | Poles:      | 04       | Created Date: |            |
| Base:       | RG   | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 07-22-2015 |
| Leads:      | 6#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1256L

|              |              |  |    |                |      |     |    |   |       |   |   |
|--------------|--------------|--|----|----------------|------|-----|----|---|-------|---|---|
| CAT.NO.      | L3510        |  |    |                |      |     |    |   |       |   |   |
| SPEC.        | 35J383X945   |  |    |                |      |     |    |   |       |   |   |
| HP           | 1            |  |    |                |      |     |    |   |       |   |   |
| VOLTS        | 115/230      |  |    |                |      |     |    |   |       |   |   |
| AMP          | 12.8/6.4     |  |    |                |      |     |    |   |       |   |   |
| RPM          | 1725         |  |    |                |      |     |    |   |       |   |   |
| FRAME        | 56H          |  |    |                | HZ   |     | 60 |   | PH    | 1 |   |
| SER.F.       | 1.15         |  |    | CODE           | K    | DES |    | L | CLASS | F |   |
| NEMA-NOM-EFF | 68           |  |    | PF             | 74   |     |    |   |       |   |   |
| RATING       | 40C AMB-CONT |  |    |                |      |     |    |   |       |   |   |
| CC           |              |  |    | USABLE AT 208V |      |     |    |   |       |   | 7 |
| DE           | 6205         |  |    | ODE            | 6203 |     |    |   |       |   |   |
| ENCL         | TEFC         |  | SN |                |      |     |    |   |       |   |   |
|              |              |  |    |                |      |     |    |   |       |   |   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA025938      | SA 35J383X945                            | 1.000 EA |
| RA021988      | RA 35J383X945                            | 1.000 EA |
| EC1645A06SP   | ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.  | 1.000 EA |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 35CB3007      | 35 CB CASTING W/.88 DIA. LEAD HOLE       | 1.000 EA |
| 36GS1000      | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 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 |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA |
| 35EP3100M02   | FREP TEFC 203 BRG W/O GRSR (RAISED FH MT | 1.000 EA |
| NS2501A01     | INSULATOR, CAPACITOR                     | 1.000 EA |
| 35CB4802A02SP | CAPACITOR COVER, STAMPED X               | 1.000 EA |
| 35GS3001A02   | GASKET, CA.COVER, 5.38 LONG .06 CS301    | 1.000 EA |
| 51XB1016A05   | 10-16X5/16HX WA SL SR TYB (F/S)          | 2.000 EA |
| HW5100A03SP   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35EP3101A02SP | STD PU ENDPLATE-ENCL-205 BRG LESS GREASE | 1.000 EA |
| XY1032A02     | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 EA |
| 35FN3002A05   | EXFN, PLASTIC, 6.376 OD, .638 ID         | 1.000 EA |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |
| 35FH4005A32SP | IEC FH NO GRSR W/3 HOLES - PRIMED        | 1.000 EA |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 35CB4521GX    | CONDUIT BOX LID KIT                      | 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 |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HA7000A04              | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 EA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| WD1000A15              | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 2.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1000G27              | MED CHARCOAL METALLIC GREY 400-0096      | 0.017 GA |
| HA3100A18              | THRUBOLT 10-32 X 9.250                   | 4.000 EA |
| SP5051A24              | MODEL 35 TORQ STATIONARY SWITCH FOR "L"  | 1.000 EA |
| LC0001A01              | CONN LABEL / WARNING LABEL (LC0001 / LB1 | 1.000 EA |
| NP1256L                | ALUM UL CSA CC                           | 1.000 EA |
| 35PA1066               | PKG GRP, PRINT PK1008A06                 | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 11/14 | 1.000 EA |

| Accessories   |              |            |
|---------------|--------------|------------|
| Part Number   | Description  | Multiplier |
| 35-8762       | C FACE KIT   | A8         |
| 35EP1506A01SP | D-FLANGE KIT | A8         |

## AC Induction Motor Performance Data

Record # 33217 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGX945-R003 | <b>Type:</b> 3524L | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>High Voltage Connection |                                        |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------------------------------|
| Rated Output (HP)     | 1            |              |    | Full Load Torque                         | 3 LB-FT                                |
| Volts                 | 115/230      |              |    | Start Configuration                      | direct on line                         |
| Full Load Amps        | 12.8/6.4     |              |    | Breakdown Torque                         | 6.9 LB-FT                              |
| R.P.M.                | 1725         |              |    | Pull-up Torque                           | 5.9 LB-FT                              |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                      | 10 LB-FT                               |
| NEMA Design Code      | L            | KVA Code     | K  | Starting Current                         | 39 A                                   |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 4.1 A                                  |
| NEMA Nom. Eff.        | 68           | Power Factor | 74 | Line-line Res. @ 25°C                    | 2.6 $\Omega$ A Ph<br>1.8 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 79°C                                   |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 96°C                                   |

## Load Characteristics 230 V, 60 Hz, 1 HP

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 39   | 53   | 67   | 75   | 81   | 84   | 79   |
| Efficiency      | 52.9 | 67.6 | 70   | 70.3 | 68.6 | 64.9 | 69.3 |
| Speed           | 1781 | 1765 | 1746 | 1726 | 1701 | 1666 | 1711 |
| Line amperes    | 4.3  | 4.7  | 5.3  | 6.2  | 7.4  | 8.9  | 6.9  |

## Performance Graph at 230V, 60Hz, 1.0HP Typical performance - Not guaranteed values







