

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **L1177T**

**15HP,1760RPM,1PH,60HZ,254T,0956LC,TEFC**

| Part Detail |                                |                |        |             |          |               |            |
|-------------|--------------------------------|----------------|--------|-------------|----------|---------------|------------|
| Revision:   | Y                              | Status:        | PRD/A  | Change #:   |          | Proprietary:  | No         |
| Type:       | AC                             | Prod. Type:    | 0956LC | Elec. Spec: | 09WGZ143 | CD Diagram:   | CD1084     |
| Enclosure:  | TEFC                           | Mfg Plant:     |        | Mech. Spec: | 09G373   | Layout:       | 09LYG373   |
| Frame:      | 254T                           | Mounting:      | F1     | Poles:      | 04       | Created Date: | 11-18-2005 |
| Base:       | RG                             | Rotation:      | R      | Insulation: | F        | Eff. Date:    | 09-23-2016 |
| Leads:      | 2#6 A PH 12" long, 2#12 B PH Y |                |        |             |          | Replaced By:  |            |
| Literature: |                                | Elec. Diagram: |        |             |          |               |            |

## Nameplate NP1256L

|              |              |  |    |                |    |      |    |   |       |    |   |
|--------------|--------------|--|----|----------------|----|------|----|---|-------|----|---|
| CAT.NO.      | L1177T       |  |    |                |    |      |    |   |       |    |   |
| SPEC.        | 09G373Z143G1 |  |    |                |    |      |    |   |       |    |   |
| HP           | 15           |  |    |                |    |      |    |   |       |    |   |
| VOLTS        | 230          |  |    |                |    |      |    |   |       |    |   |
| AMP          | 60           |  |    |                |    |      |    |   |       |    |   |
| RPM          | 1760         |  |    |                |    |      |    |   |       |    |   |
| FRAME        | 254T         |  |    |                | HZ |      | 60 |   |       | PH | 1 |
| SER.F.       | 1.00         |  |    | CODE           | E  | DES  |    | L | CLASS | F  |   |
| NEMA-NOM-EFF | 86.5         |  |    | PF             | 96 |      |    |   |       |    |   |
| RATING       | 40C AMB-CONT |  |    |                |    |      |    |   |       |    |   |
| CC           |              |  |    | USABLE AT 208V |    |      |    |   |       |    |   |
| DE           | 6309         |  |    | ODE            |    | 6307 |    |   |       |    |   |
| ENCL         | TEFC         |  | SN |                |    |      |    |   |       |    |   |
|              |              |  |    |                |    |      |    |   |       |    |   |

| Parts List  |                                          |           |
|-------------|------------------------------------------|-----------|
| Part Number | Description                              | Quantity  |
| SA135806    | SA 09G373Z143G1                          | 1.000 EA  |
| RA125532    | RA 09G373Z143G1                          | 1.000 EA  |
| OC3050F09SP | CYL OIL CAP 50MFD/370V                   | 2.000 EA  |
| RE0045A12   | RELAY,GE #CR453CC2BAA, 30 AMP            | 1.000 EA  |
| EC1216C06SP | ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.  | 4.000 EA  |
| 09CB3801A01 | SPL CAPACITOR BOX ADAPTER                | 1.000 EA  |
| 09GS1003    | ADAPTER GASKET MODEL 309 MOTORS          | 1.000 EA  |
| 10XN2520K16 | 1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P   | 4.000 EA  |
| 10XN2520K12 | 1/4-20 X.75 GRD 5                        | 2.000 EA  |
| 10XN2520K10 | 1/4-20 X 5/8" HX HD SCRW.GRADE 5, XINC P | 2.000 EA  |
| HW1001A25   | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA  |
| HA6003A45   | CAPAC CLAMP - CLIP (WHITE ZINC PLATED)   | 2.000 EA  |
| HA6003A47   | CAPAC CLAMP                              | 1.000 EA  |
| HA7419      | SPL BRACKET FOR MTG. CONTACT TO SINGLE P | 1.000 EA  |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 EA  |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA  |
| WD1000B25   | BURNDY TERMINAL L125HP                   | 1.000 EA  |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 7.000 EA  |
| WD1000D90   | T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL | 2.000 EA  |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 4.000 EA  |
| WD1000A03   | 41531 AMP FLG.TERM,4M/REEL(2.5MIL)       | 30.000 EA |
| WD1000D90   | T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL | 1.000 EA  |
| SP5165      | MODEL 39 DOUBLE ARM STATIONARY SWITCH    | 1.000 EA  |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA  |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| NS2605                 | SWITCH INSULATOR 09 FRAME                | 1.000 EA |
| 09EP1100A120           | ENDPLATE, MACH                           | 1.000 EA |
| HW5100A08              | W3118-035 WVY WSHR (WB)                  | 1.000 EA |
| 10XN2520K36            | 1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P | 4.000 EA |
| HW1001A25              | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| HW1001A25              | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| 37CB3804A43            | CONDUIT BOX MACH.                        | 1.000 EA |
| 37GS3015               | GASKET, CAPAC BOX                        | 1.000 EA |
| 09EP1101A11SP          | PU ENDPLATE, MACH                        | 1.000 EA |
| HW4600B44              | V-RING SLINGER 1.500 X 1.810 X .28 VITON | 1.000 EA |
| HA3113A02              | THRUBOLT 3/8-16 X 16.750                 | 4.000 EA |
| XY3816A12              | 3/8-16 FINISHED NUT                      | 4.000 EA |
| HW1001A38              | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| 09FH4000SP             | FAN COVER, STAMPED                       | 1.000 EA |
| HA2081A05              | SPACER TUBE, 309 FAN HSG, 2.00 LONG      | 4.000 EA |
| XY3816A12              | 3/8-16 FINISHED NUT                      | 4.000 EA |
| HW1001A38              | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| 37CB4509               | CAPAC BOX LID, STAMPED                   | 1.000 EA |
| 37GS3016               | GASKET, CAPAC BOX LID                    | 1.000 EA |
| 51XW0832A07            | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 6.000 EA |
| HW2501G25              | KEY, 3/8 SQ X 2.875                      | 1.000 EA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 11/14 | 1.000 EA |
| HW4500A05              | 1669B ALEM/UNIV860 GR FTG X              | 1.000 EA |

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|             |                                          |          |
|-------------|------------------------------------------|----------|
| HW4500A17   | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4051A00   | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| 09FN2001A02 | EXTERNAL FAN, MACH                       | 1.000 EA |
| 80XN3816L08 | 3/8-16 X 1/2 SET SCREW W/NYLON PATCH     | 1.000 EA |
| HA4054      | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 EA |
| MJ1000A02   | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.080 LB |
| HW4500A03   | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |
| HW4500A17   | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4051A00   | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| MG1000G27   | MED CHARCOAL METALLIC GREY 400-0096      | 0.050 GA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| LB1119N     | WARNING LABEL                            | 1.000 EA |
| LC0017      | CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO | 1.000 EA |
| NP1256L     | ALUM UL CSA CC                           | 1.000 EA |
| 40PA1005    | PACKAGING GROUP, 09 STD                  | 1.000 EA |

| Accessories |             |            |
|-------------|-------------|------------|
| Part Number | Description | Multiplier |
| 09-1309     | C FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 21347 - Typical performance - not guaranteed values

|                               |                     |                        |
|-------------------------------|---------------------|------------------------|
| <b>Winding:</b> 09WGZ143-R001 | <b>Type:</b> 0956LC | <b>Enclosure:</b> TEFC |
|-------------------------------|---------------------|------------------------|

| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>Single Voltage Motor |                                           |
|-----------------------|--------------|--------------|----|---------------------------------------|-------------------------------------------|
| Rated Output (HP)     | 15           |              |    | Full Load Torque                      | 45.3 LB-FT                                |
| Volts                 | 230          |              |    | Start Configuration                   | direct on line                            |
| Full Load Amps        | 60           |              |    | Breakdown Torque                      | 114 LB-FT                                 |
| R.P.M.                | 1760         |              |    | Pull-up Torque                        | 55 LB-FT                                  |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                   | 76.7 LB-FT                                |
| NEMA Design Code      | L            | KVA Code     | E  | Starting Current                      | 304 A                                     |
| Service Factor (S.F.) | 1            |              |    | No-load Current                       | 7.93 A                                    |
| NEMA Nom. Eff.        | 86.5         | Power Factor | 96 | Line-line Res. @ 25°C                 | 0.11 $\Omega$ A Ph<br>0.415 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load               | 80°C                                      |

**Load Characteristics 230 V, 60 Hz, 15 HP**

|                 |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
| Power Factor    | 89   | 95   | 96   | 96   | 95   | 94   |
| Efficiency      | 80.5 | 87.6 | 88.3 | 86.9 | 83.8 | 79.3 |
| Speed           | 1784 | 1768 | 1749 | 1727 | 1698 | 1664 |
| Line amperes    | 17   | 29   | 42.7 | 57.9 | 75.8 | 97.2 |



Performance Graph at 230V, 60Hz, 15.0HP Typical performance - Not guaranteed values





