

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **L3609TM**

**3HP,1725RPM,1PH,60HZ,184T,3634LC,TEFC,F1**

| Part Detail |                               |                |        |             |          |               |            |
|-------------|-------------------------------|----------------|--------|-------------|----------|---------------|------------|
| Revision:   | AF                            | Status:        | PRD/A  | Change #:   |          | Proprietary:  | No         |
| Type:       | AC                            | Prod. Type:    | 3634LC | Elec. Spec: | 36WGY155 | CD Diagram:   | CD0320     |
| Enclosure:  | TEFC                          | Mfg Plant:     |        | Mech. Spec: | 36F227   | Layout:       | 36LYF227   |
| Frame:      | 184T                          | Mounting:      | F1     | Poles:      | 04       | Created Date: |            |
| Base:       | RG                            | Rotation:      | R      | Insulation: | F        | Eff. Date:    | 09-10-2015 |
| Leads:      | 4#14 A PH,2#16 B PH,1#10 #4TH |                |        |             |          | Replaced By:  |            |
| Literature: |                               | Elec. Diagram: |        |             |          |               |            |

## Nameplate NP1257L

|              |                |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
|--------------|----------------|--|--|------|-----|----|------|-----|----|---|----|----|---|---|--|
| CAT.NO.      | L3609TM        |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
| SPEC.        | 36F227Y155     |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
| HP           | 3              |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
| VOLTS        | 115/230        |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
| AMP          | 28/14.5        |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
| RPM          | 1725           |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
| FRAME        | 184T           |  |  |      | HZ  |    |      |     | 60 |   | PH |    | 1 |   |  |
| SER.F.       | 1.00           |  |  | CODE |     | K  |      | DES |    | L |    | CL |   | F |  |
| NEMA-NOM-EFF | 78             |  |  | PF   |     | 85 |      |     |    |   |    |    |   |   |  |
| RATING       | 40C AMB-CONT   |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
| CC           |                |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
|              | USABLE AT 208V |  |  |      |     |    |      |     |    |   |    |    |   |   |  |
| DE           | 6206           |  |  |      | ODE |    | 6205 |     |    |   |    |    |   |   |  |
| ENCL         | TEFC           |  |  | SN   |     |    |      |     |    |   |    |    |   |   |  |
|              |                |  |  |      |     |    |      |     |    |   |    |    |   |   |  |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA034864      | SA 36F227Y155                            | 1.000 EA |
| RA030892      | RA 36F227Y155                            | 1.000 EA |
| OC3060F10     | CYL OIL CAP 60MFD/370V                   | 1.000 EA |
| TPBRJ35DB     | THERMAL 1PH 1.25 MAN 120C                | 1.000 EA |
| EC1815A06SP   | ELEC CAP 115V 2.0 X 4.3                  | 1.000 EA |
| 36CB3004A02   | 36 CB 1.09 @ 6, 1.25 MTO @ 3             | 1.000 EA |
| 36GS1000      | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 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 |
| HA6015A09     | THERMAL RETAINER PLATED                  | 1.000 EA |
| 51XB1214A10   | 12-14 X 5/8HX WS SL SR TYBX              | 2.000 EA |
| 36FE3104A01   | FREP MACH ASSEMBLY FOR ROUTING           | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| 13XF0832A08   | 8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN | 2.000 EA |
| 36CB3800SP    | CAPACITOR COVER, CAST                    | 1.000 EA |
| HA7010A01     | CAPACITOR RETENTION CLAMP, 6.562 LONG    | 1.000 EA |
| 36GS3000      | GASKET, CAPACITOR COVER LEXIDE           | 1.000 EA |
| 51XB1016A05   | 10-16X5/16HX WA SL SR TYB (F/S)          | 2.000 EA |
| 10XN2520A12   | O1/4-20X 3/4 HEX HEAD CAP                | 2.000 EA |
| HW5100A05     | WVY WSHR F/205 & 304 BRGS                | 1.000 EA |
| 36EP3100A01SP | PUEP ASSEMBLY FOR ROUTING PURPOSES       | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| XY2520A12     | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS   | 4.000 EA |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 51XW1032A06            | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 36CB4516               | 36 LIPPED CB LID                         | 1.000 EA |
| 37GS1001               | GASKET, CONDUIT BOX LID, .06 THICK LEXID | 1.000 EA |
| 51XW0832A07            | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501E16              | 3KEY, 1/4 SQ X 1.750                     | 1.000 EA |
| HA7000A02              | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 EA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| 36FN3000A01            | EXFN, PLASTIC, 7.00 OD, .912 ID          | 1.000 EA |
| MG1000G27              | MED CHARCOAL METALLIC GREY 400-0096      | 0.022 GA |
| SP5172A05              | 37 TYPE LC TORQ STAT SW LEAD ASSEMBLY    | 1.000 EA |
| 51XW0832A07            | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA |
| WD1000A15              | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 4.000 EA |
| 36FH4009A102           | IEC FH GREASER PRIMED                    | 1.000 EA |
| HA3101A45              | THRUBOLT- 1/4-20 X 11.125 X              | 4.000 EA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LB1087                 | LABEL,MANUAL RESET (ROLL LABEL)          | 1.000 EA |
| LC0269                 | 1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H | 1.000 EA |
| NP1257L                | ALUM UL CSA CC THERMAL REV MTG           | 1.000 EA |
| 36PA1001               | PKG GRP, PRINT PK1017A06                 | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 11/14 | 1.000 EA |

| Accessories   |                                         |            |
|---------------|-----------------------------------------|------------|
| Part Number   | Description                             | Multiplier |
| 36-3301       | C FACE KIT                              | A8         |
| 36EP1304A62SP | FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS | A8         |

**AC Induction Motor Performance Data**

Record # 11212 - Typical performance - not guaranteed values

|                               |                     |                        |
|-------------------------------|---------------------|------------------------|
| <b>Winding:</b> 36WGY155-R001 | <b>Type:</b> 3634LC | <b>Enclosure:</b> TEFC |
|-------------------------------|---------------------|------------------------|

| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>High Voltage Connection |                              |
|-----------------------|--------------|--------------|----|------------------------------------------|------------------------------|
| Rated Output (HP)     | 3            |              |    | Full Load Torque                         | 9 LB-FT                      |
| Volts                 | 115/230      |              |    | Start Configuration                      | direct on line               |
| Full Load Amps        | 28/14.5      |              |    | Breakdown Torque                         | 23 LB-FT                     |
| R.P.M.                | 1725         |              |    | Pull-up Torque                           | 18 LB-FT                     |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                      | 29 LB-FT                     |
| NEMA Design Code      | L            | KVA Code     | K  | Starting Current                         | 105 A                        |
| Service Factor (S.F.) | 1            |              |    | No-load Current                          | 6.35 A                       |
| NEMA Nom. Eff.        | 78           | Power Factor | 85 | Line-line Res. @ 25°C                    | 0.688 Ω A Ph<br>0.628 Ω B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 96°C                         |

**Load Characteristics 230 V, 60 Hz, 3 HP**

|                 |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
| Power Factor    | 53   | 71   | 81   | 86   | 88   | 89   |
| Efficiency      | 63.3 | 76.2 | 80.4 | 81.4 | 80.7 | 78.8 |
| Speed           | 1787 | 1775 | 1762 | 1747 | 1730 | 1709 |
| Line amperes    | 7.25 | 9    | 11.3 | 14   | 17.1 | 20.8 |





