

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **CL3515T**

**2HP,3450RPM,1PH,60HZ,145TC,3535L,TEFC,F1**

| Part Detail |                     |                |       |             |          |               |            |
|-------------|---------------------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | P                   | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC                  | Prod. Type:    | 3535L | Elec. Spec: | 35WG0506 | CD Diagram:   | CD0001     |
| Enclosure:  | TEFC                | Mfg Plant:     |       | Mech. Spec: | 35Y527   | Layout:       | 35LYY527   |
| Frame:      | 145TC               | Mounting:      | F1    | Poles:      | 02       | Created Date: | 12-08-2009 |
| Base:       | RG                  | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 07-18-2016 |
| Leads:      | 4#14 A PH,2#18 B PH |                |       |             |          | Replaced By:  |            |
| Literature: |                     | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1256L

|              |               |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |
|--------------|---------------|--|----------------|--|------|-----|----|---|-------|--|----|----|--|--|--|--|
| CAT.NO.      | CL3515T       |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |
| SPEC.        | 35Y527-0506G1 |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |
| HP           | 2             |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |
| VOLTS        | 115/230       |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |
| AMP          | 23/11.5       |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |
| RPM          | 3450          |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |
| FRAME        | 145TC         |  |                |  | HZ   |     | 60 |   |       |  | PH | 1  |  |  |  |  |
| SER.F.       | 1.15          |  | CODE           |  | K    | DES |    | L | CLASS |  | F  |    |  |  |  |  |
| NEMA-NOM-EFF | 74            |  | PF             |  | 82   |     |    |   |       |  |    |    |  |  |  |  |
| RATING       | 40C AMB-CONT  |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |
| CC           |               |  | USABLE AT 208V |  |      |     |    |   |       |  |    | 12 |  |  |  |  |
| DE           | 6205          |  | ODE            |  | 6203 |     |    |   |       |  |    |    |  |  |  |  |
| ENCL         | TEFC          |  | SN             |  |      |     |    |   |       |  |    |    |  |  |  |  |
|              |               |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |
|              |               |  |                |  |      |     |    |   |       |  |    |    |  |  |  |  |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA188470      | SA 35Y527-0506G1                         | 1.000 EA |
| RA176203      | RA 35Y527-0506G1                         | 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 |
| 35CB3009      | 35 CB W/1.09 DIA. LEAD HOLE @ 6:         | 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 |
| 35EP3100M01   | FREP TEFC 203 BRG W/GRSR (RAISED FH PADS | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| NS2501A01     | INSULATOR, CAPACITOR                     | 1.000 EA |
| 51XB1016A05   | 10-16X5/16HX WA SL SR TYB (F/S)          | 2.000 EA |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35EP3300A46   | SPL FACE MTD EP-ENCL-145TC-205 BRG       | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| 51XN1032A20   | 10-32 X 1 1/4 HX WS SL SR                | 2.000 EA |
| 35FH4005A84SP | IEC FH W/GRSR, NO DIMPLES PRIMED         | 1.000 EA |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 35CB4521      | 35 LIPPED CB LID (GALV & PHOSPH)         | 1.000 EA |
| 35GS1030      | 35 GS FOR CB 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 |
| HA7000A01     | KEY RETAINER 7/8" DIA SHAFT              | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 10XF0440S02            | 04-40 X 1/8 TYPE F HEX HD STAINLESS STIC | 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 |
| 34FN3002A01SP          | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/  | 1.000 EA |
| 51XB1214A16            | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |
| MG1000G27              | MED CHARCOAL METALLIC GREY 400-0096      | 0.017 GA |
| SP5051A24              | MODEL 35 TORQ STATIONARY SWITCH FOR "L"  | 1.000 EA |
| 35CB4802A02SP          | CAPACITOR COVER, STAMPED X               | 1.000 EA |
| 35GS3001A02            | GASKET, CA.COVER, 5.38 LONG .06 CS301    | 1.000 EA |
| HA3100A18              | THRUBOLT 10-32 X 9.250                   | 4.000 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 |

**AC Induction Motor Performance Data**

Record # 20312 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WG0506-R001 | <b>Type:</b> 3535L | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>High Voltage Connection |                                           |
|-----------------------|--------------|--------------|----|------------------------------------------|-------------------------------------------|
| Rated Output (HP)     | 2            |              |    | Full Load Torque                         | 3 LB-FT                                   |
| Volts                 | 115/230      |              |    | Start Configuration                      | direct on line                            |
| Full Load Amps        | 23/11.5      |              |    | Breakdown Torque                         | 9 LB-FT                                   |
| R.P.M.                | 3450         |              |    | Pull-up Torque                           | 6 LB-FT                                   |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                      | 7.5 LB-FT                                 |
| NEMA Design Code      | L            | KVA Code     | K  | Starting Current                         | 78 A                                      |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 6 A                                       |
| NEMA Nom. Eff.        | 74           | Power Factor | 82 | Line-line Res. @ 25°C                    | 0.864 $\Omega$ A Ph<br>1.26 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 82°C                                      |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 91°C                                      |

## Load Characteristics 230 V, 60 Hz, 2 HP

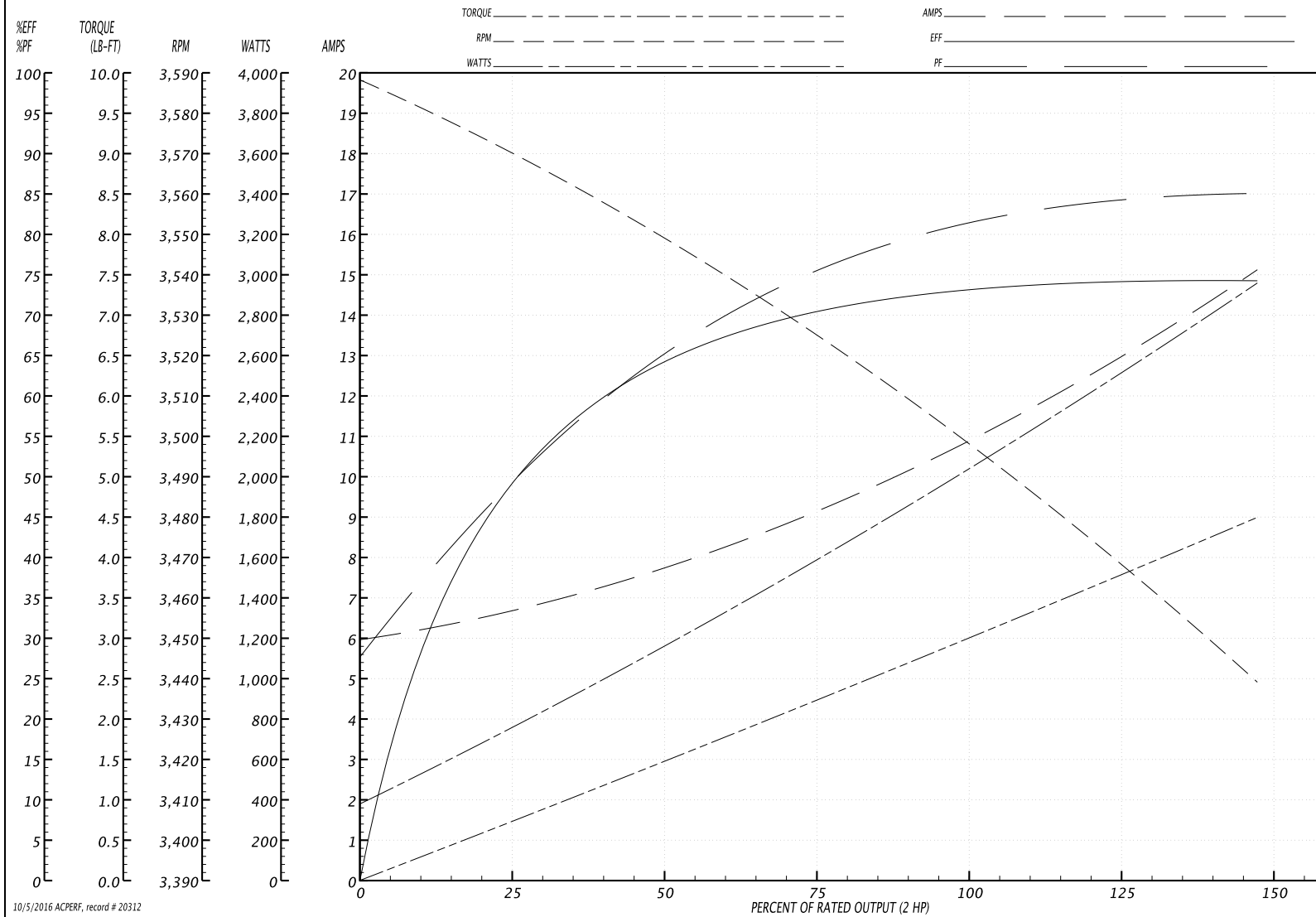
|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 50   | 65   | 75   | 81   | 85   | 87   | 83   |
| Efficiency      | 49.1 | 64.2 | 70.5 | 73.4 | 74.3 | 74.1 | 73.9 |
| Speed           | 3569 | 3548 | 3524 | 3499 | 3471 | 3438 | 3482 |
| Line amperes    | 6.65 | 7.75 | 9.2  | 10.9 | 12.9 | 15.1 | 12.1 |

## Performance Graph at 230V, 60Hz, 2.0HP Typical performance - Not guaranteed values

**BALDOR ELECTRIC COMPANY**

Typical performance - not guaranteed values.

WINDING # 35WG0506

 2 HP 1 PH 60 HZ 3450 RPM 230 V 3535L  
 TORQUES(LB-FT): PO=9 PU=6 LR=7.5 LRA=78


10/5/2016 ACPEFF, record # 20312

