

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **L3514M**

**1.5HP,1725RPM,1PH,60HZ,56/56H,3532LC**

| Part Detail |                              |                |        |             |          |               |            |
|-------------|------------------------------|----------------|--------|-------------|----------|---------------|------------|
| Revision:   | AU                           | Status:        | PRD/A  | Change #:   |          | Proprietary:  | No         |
| Type:       | AC                           | Prod. Type:    | 3532LC | Elec. Spec: | 35WGW114 | CD Diagram:   | CD0016A02  |
| Enclosure:  | TEFC                         | Mfg Plant:     |        | Mech. Spec: | 35H611   | Layout:       | 35LYH611   |
| Frame:      | 56/56H                       | Mounting:      | F1     | Poles:      | 04       | Created Date: |            |
| Base:       | RG                           | Rotation:      | R      | Insulation: | B        | Eff. Date:    | 04-02-2015 |
| Leads:      | 4#16 A&J,3#18 B PH,1#14 #4TH |                |        |             |          | Replaced By:  |            |
| Literature: |                              | Elec. Diagram: |        |             |          |               |            |

## Nameplate NP1257L

|              |              |  |  |      |     |    |      |     |    |   |                |    |   |   |  |
|--------------|--------------|--|--|------|-----|----|------|-----|----|---|----------------|----|---|---|--|
| CAT.NO.      | L3514M       |  |  |      |     |    |      |     |    |   |                |    |   |   |  |
| SPEC.        | 35H611W114   |  |  |      |     |    |      |     |    |   |                |    |   |   |  |
| HP           | 1.5          |  |  |      |     |    |      |     |    |   |                |    |   |   |  |
| VOLTS        | 115/208-230  |  |  |      |     |    |      |     |    |   |                |    |   |   |  |
| AMP          | 16/7.9-8     |  |  |      |     |    |      |     |    |   |                |    |   |   |  |
| RPM          | 1725         |  |  |      |     |    |      |     |    |   |                |    |   |   |  |
| FRAME        | 56/56H       |  |  |      | HZ  |    |      |     | 60 |   | PH             |    | 1 |   |  |
| SER.F.       | 1.00         |  |  | CODE |     | J  |      | DES |    | L |                | CL |   | B |  |
| NEMA-NOM-EFF | 75.5         |  |  | PF   |     | 80 |      |     |    |   |                |    |   |   |  |
| RATING       | 40C AMB-CONT |  |  |      |     |    |      |     |    |   |                |    |   |   |  |
| CC           |              |  |  |      |     |    |      |     |    |   | USABLE AT 208V |    |   |   |  |
| DE           | 6205         |  |  |      | ODE |    | 6203 |     |    |   |                |    |   |   |  |
| ENCL         | TEFC         |  |  | SN   |     |    |      |     |    |   |                |    |   |   |  |
|              |              |  |  |      |     |    |      |     |    |   |                |    |   |   |  |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA025416      | SA 35H611W114                            | 1.000 EA |
| RA021466      | RA 35H611W114                            | 1.000 EA |
| OC3015F12SP   | CYL OIL CAP 15MFD/370V                   | 1.000 EA |
| EC1645A06SP   | ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.  | 1.000 EA |
| TP5059        | GENERIC THERMAL KIT                      | 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 |
| 35CB4801C01SP | COVER, MANUAL THERMAL PROT, PLATED       | 1.000 EA |
| RM1014A01SP   | BUTYL RUB.THRM COV. (MENA)               | 1.000 EA |
| 35GS3000      | THERMAL GASKET LEXIDE X                  | 1.000 EA |
| 35EP3100M02   | FREP TEFC 203 BRG W/O GRSR (RAISED FH MT | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA |
| 35CB3801      | CAPACITOR COVER, CAST                    | 1.000 EA |
| 34GS3002      | GASKET, CAPACITOR BOX                    | 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 |
| 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 |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 51XB1214A16            | 12-14X1.00 HXWSSLD SERTYB                | 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 |
| HA7000A04              | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 EA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| 35FH4005A32SP          | IEC FH NO GRSR W/3 HOLES - PRIMED        | 1.000 EA |
| MG1000G27              | MED CHARCOAL METALLIC GREY 400-0096      | 0.017 GA |
| 34GS5003               | FOAM SLEEVE, ID = 2 1/16" X 3 3/8"       | 2.000 EA |
| SP5056A61              | MODEL 35 LC STATIONARY SWITCH LEAD ASSY  | 1.000 EA |
| WD1000A15              | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 4.000 EA |
| HA3100A22              | THRUBOLT 10-32 X 10.125                  | 4.000 EA |
| LB1087                 | LABEL,MANUAL RESET (ROLL LABEL)          | 1.000 EA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LC0016                 | CONNECTION LABEL                         | 1.000 EA |
| NP1257L                | ALUM UL CSA CC THERMAL REV MTG           | 1.000 EA |
| 36PA1000               | PKG GRP, PRINT PK1016A06                 | 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 # 36867 - Typical performance - not guaranteed values

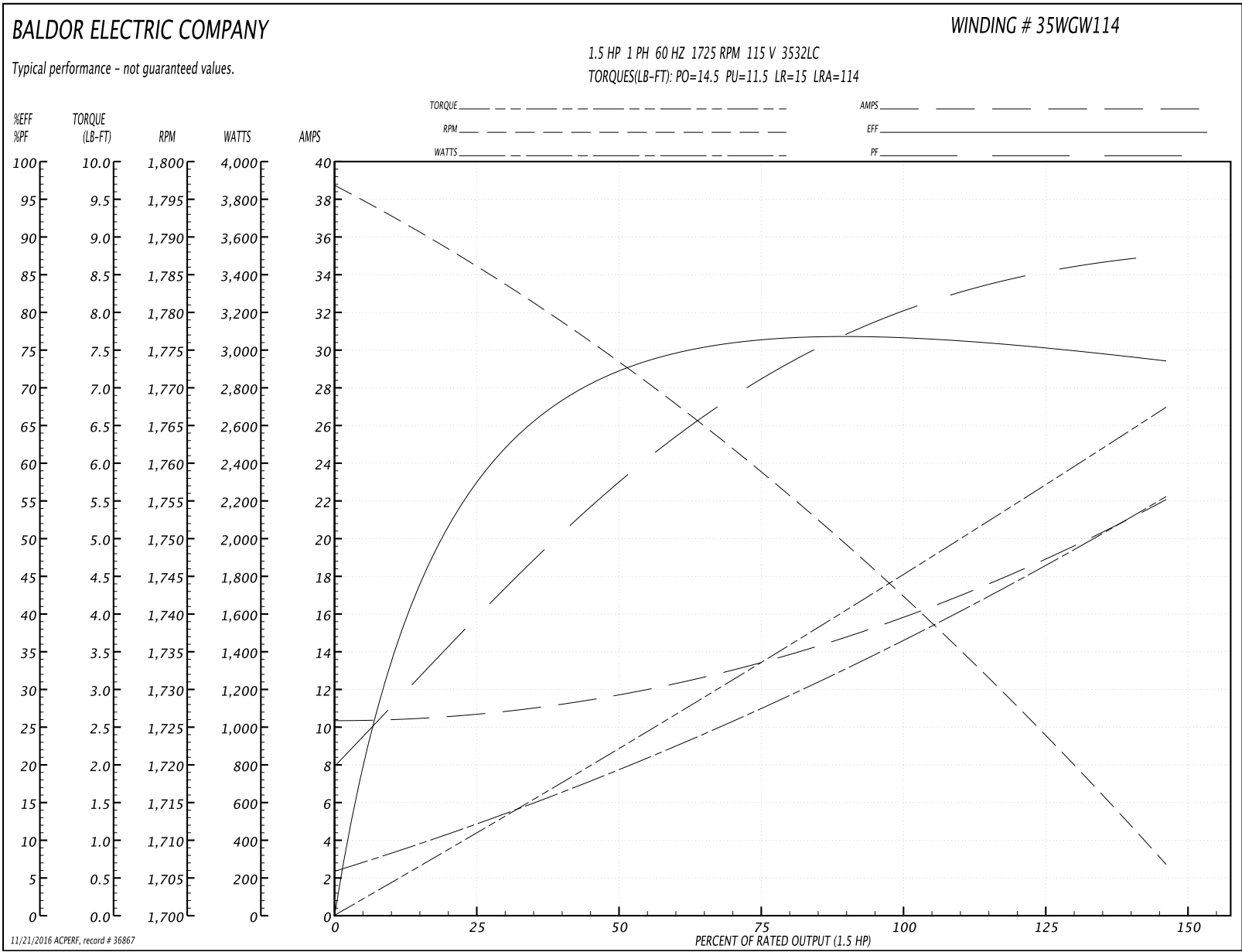
|                               |                     |                        |
|-------------------------------|---------------------|------------------------|
| <b>Winding:</b> 35WGW114-R004 | <b>Type:</b> 3532LC | <b>Enclosure:</b> TEFC |
|-------------------------------|---------------------|------------------------|

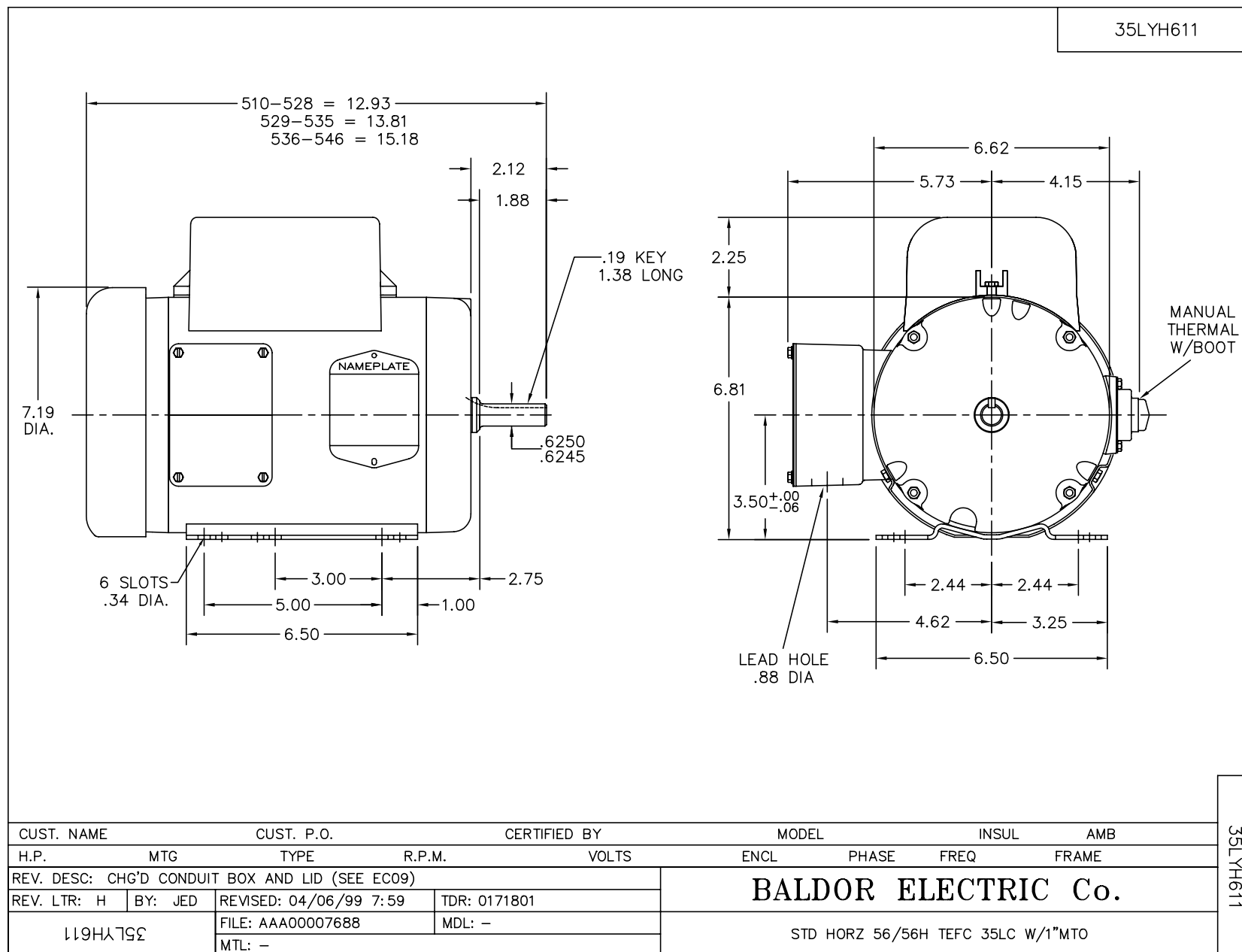
| Nameplate Data        |              |              |    | 115 V, 60 Hz:<br>Low Voltage Connection |                                           |
|-----------------------|--------------|--------------|----|-----------------------------------------|-------------------------------------------|
| Rated Output (HP)     | 1.5          |              |    | Full Load Torque                        | 4.5 LB-FT                                 |
| Volts                 | 115/208-230  |              |    | Start Configuration                     | direct on line                            |
| Full Load Amps        | 16/7.9-8     |              |    | Breakdown Torque                        | 14.5 LB-FT                                |
| R.P.M.                | 1725         |              |    | Pull-up Torque                          | 11.5 LB-FT                                |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                     | 15 LB-FT                                  |
| NEMA Design Code      | L            | KVA Code     | J  | Starting Current                        | 114 A                                     |
| Service Factor (S.F.) | 1            |              |    | No-load Current                         | 10.4 A                                    |
| NEMA Nom. Eff.        | 75.5         | Power Factor | 80 | Line-line Res. @ 25°C                   | 0.354 $\Omega$ A Ph<br>1.12 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                 | 76°C                                      |

**Load Characteristics 115 V, 60 Hz, 1.5 HP**

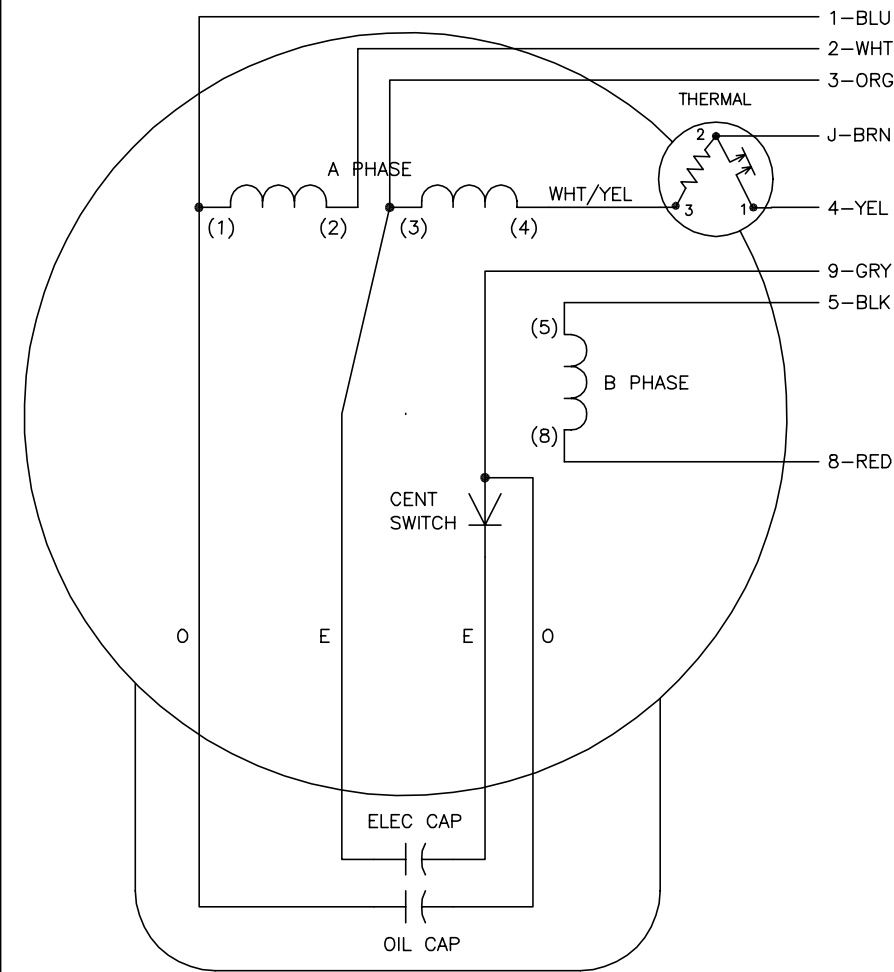
|                 |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
| Power Factor    | 40   | 58   | 72   | 80   | 84   | 88   |
| Efficiency      | 59.4 | 71.7 | 76.2 | 76.7 | 75.8 | 73.4 |
| Speed           | 1784 | 1773 | 1759 | 1743 | 1726 | 1706 |
| Line amperes    | 10.6 | 11.8 | 13.4 | 15.8 | 18.8 | 22   |

Performance Graph at 115V, 60Hz, 1.5HP Typical performance - Not guaranteed values





CD0016A02



|          | LINE A | LINE B | JOIN | JOIN  | JOIN |
|----------|--------|--------|------|-------|------|
| HIGH STD | 1      | 4      | 2,3  | 8,9   | J,5  |
| HIGH OPP | 1      | 4      | 2,3  | 5,9   | J,8  |
| LOW STD  | 1,3    | 4      | 8,9  | 2,J,5 | —    |
| LOW OPP  | 1,3    | 4      | 5,9  | 2,J,8 | —    |

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
  2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
  3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                               |                      |                              |
|-----------------------------------------------|----------------------|------------------------------|
| REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION |                      |                              |
| REV. LTR: F                                   | VERSION: 01          | TDR: 000000373039            |
| Z0V910000                                     | FILE: \AAA\00007\411 | REVISED: 10:13:25 08/11/2005 |
|                                               | MTL: —               | BY: ENJOEPO                  |

BALDOR ELECTRIC Co.

TYPE LC, DV, REV, OIL CAP ACR. LINE, THERMAL, 8 LEADS

CD0016A02