

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **VL3514**

**1.5HP,1725RPM,1PH,60HZ,56C,3532LC,TEFC,F**

Copyright © All product information within this document is subject to Baldor Electric Company copyright © protection, unless otherwise noted.

| Part Detail       |                    |                |        |                |          |               |            |  |  |
|-------------------|--------------------|----------------|--------|----------------|----------|---------------|------------|--|--|
| Revision:         | -                  | Status:        | PRD/A  | Change #:      |          | Proprietary:  | No         |  |  |
| Type:             | AC                 | Prod. Type:    | 3532LC | Elec. Spec:    | 35WGN568 | CD Diagram:   |            |  |  |
| Enclosure:        | TEFC               | Mfg Plant:     |        | Mech. Spec:    | 35E022   | Layout:       |            |  |  |
| Frame:            | 56C                | Mounting:      | F1     | Poles:         | 04       | Created Date: | 08-30-2012 |  |  |
| Base:             | N                  | Rotation:      | R      | Insulation:    | B        | Eff. Date:    | 09-04-2012 |  |  |
| Leads:            | 4#16 A&J,2#18 B PH | Literature:    |        | Elec. Diagram: |          | Replaced By:  |            |  |  |
| Nameplate NP1256L |                    |                |        |                |          |               |            |  |  |
| CAT.NO.           | VL3514             |                |        |                |          |               |            |  |  |
| SPEC.             | 35E022N568G1       |                |        |                |          |               |            |  |  |
| HP                | 1.5                |                |        |                |          |               |            |  |  |
| VOLTS             | 115/230            |                |        |                |          |               |            |  |  |
| AMP               | 12.4/6.2           |                |        |                |          |               |            |  |  |
| RPM               | 1725               |                |        |                |          |               |            |  |  |
| FRAME             | 56C                | HZ             | 60     | PH             | 1        |               |            |  |  |
| SER.F.            | 1.15               | CODE           | J      | DES            | L        | CLASS         | B          |  |  |
| NEMA-NOM-EFF      | 80                 | PF             | 96     |                |          |               |            |  |  |
| RATING            | 40C AMB-CONT       |                |        |                |          |               |            |  |  |
| CC                |                    | USABLE AT 208V | 6.8    |                |          |               |            |  |  |
| DE                | 6205               | ODE            | 6203   |                |          |               |            |  |  |
| ENCL              | TEFC               | SN             |        |                |          |               |            |  |  |
|                   |                    |                |        |                |          |               |            |  |  |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA250421      | SA 35E022N568G1                          | 1.000 EA |
| RA237276      | RA 35E022N568G1                          | 1.000 EA |
| OC3060C09     | CYL OIL CAP 60MFD/240V                   | 1.000 EA |
| EC1540A04     | ELEC CAP, 540-648 MFD, 125V, 1.81D X 4.  | 1.000 EA |
| WD3006A01     | RSS-2-103JT 2W 10K RES. METAL OXIDE 5%   | 1.000 EA |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 35CB3007      | 35 CB CASTING W/.88 DIA. LEAD HOLE       | 1.000 EA |
| 36GS1000SP    | 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 |
| 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 |
| 35CB3801SP    | 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 |
| 35EP3300A33   | SPL FACE MTD EP -ENCL-205 BRG            | 1.000 EA |
| 51XN1032A20   | 10-32 X 1 1/4 HX WS SL SR                | 2.000 EA |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |
| 35FH4005A32SP | IEC FH NO GRSR W/3 HOLES - W/AUTOPHERETI | 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 |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 51XW0832A07            | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501D13SP            | 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 |
| WD1000A15              | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 4.000 EA |
| MJ1000A75              | GREASE, POLYREX EM EXXON                 | 0.050 LB |
| 35FN3002A05SP          | EXFN, PLASTIC, 6.376 OD, .638 ID         | 1.000 EA |
| MG1000G27              | PAINT- S9282E CHARCOAL GREY              | 0.017 GA |
| HA3100A18              | THRUBOLT 10-32 X 9.250                   | 4.000 EA |
| 34GS5003               | FOAM SLEEVE, ID = 2 1/16" X 3 3/8"       | 2.000 EA |
| SP5181A01              | MODEL 35 LC TORQ STAT SWITCH LEAD ASSY   | 1.000 EA |
| LB1125C01              | STD (STOCK) CARTON LABEL BALDOR WITH FLA | 1.000 EA |
| LC0001A01              | CONN LABEL / WARNING LABEL (LC0001 / LB1 | 1.000 EA |
| NP1256L                | ALUM UL CSA CC                           | 1.000 EA |
| 35PA1066               | PACKING GROUP COMBINED PRINT             | 1.000 EA |
| PK3082                 | STYROFOAM CRADLE                         | 1.000 EA |

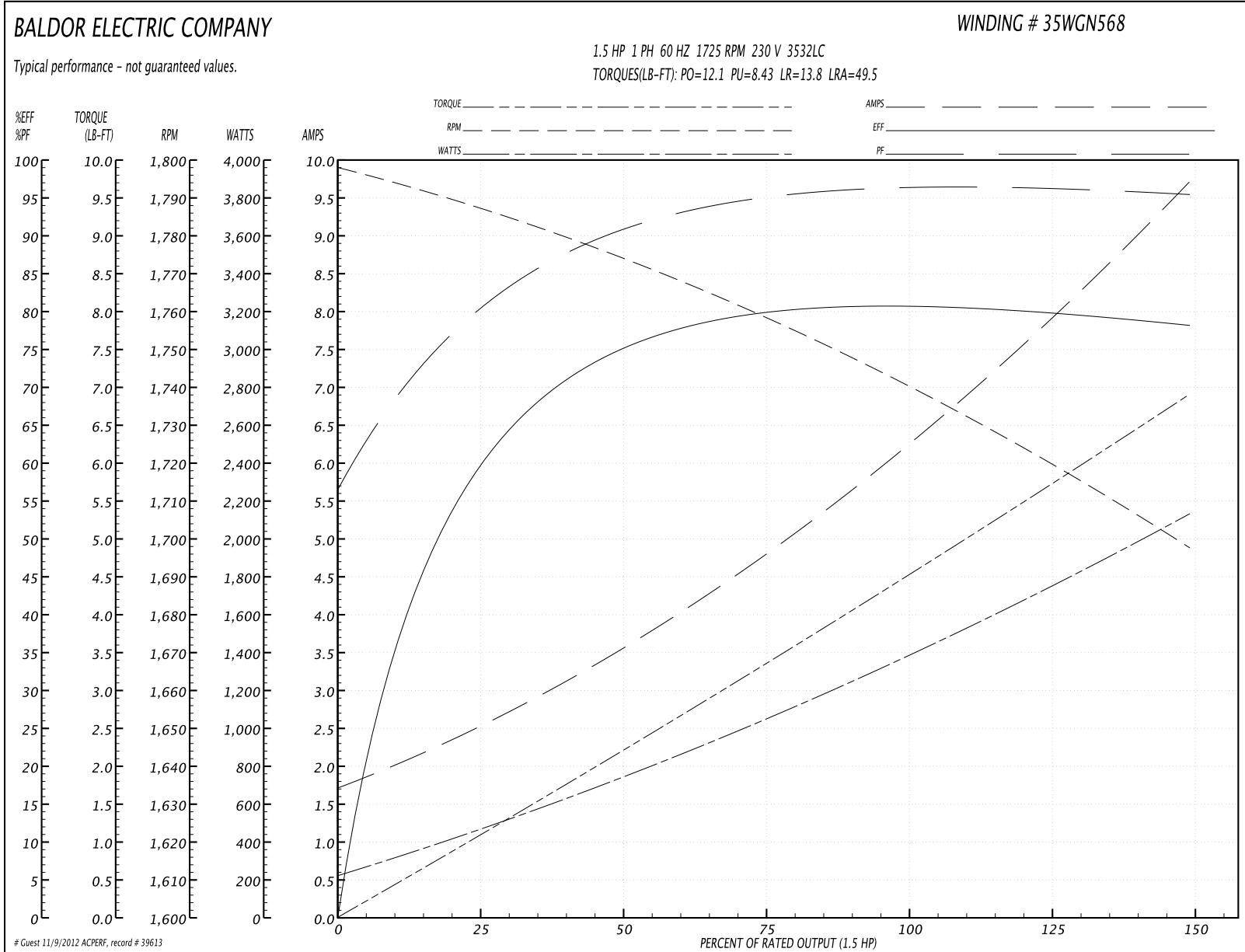
**Performance Data at 230V, 60Hz, 1.5HP (Typical performance - Not guaranteed values)****General Characteristics**

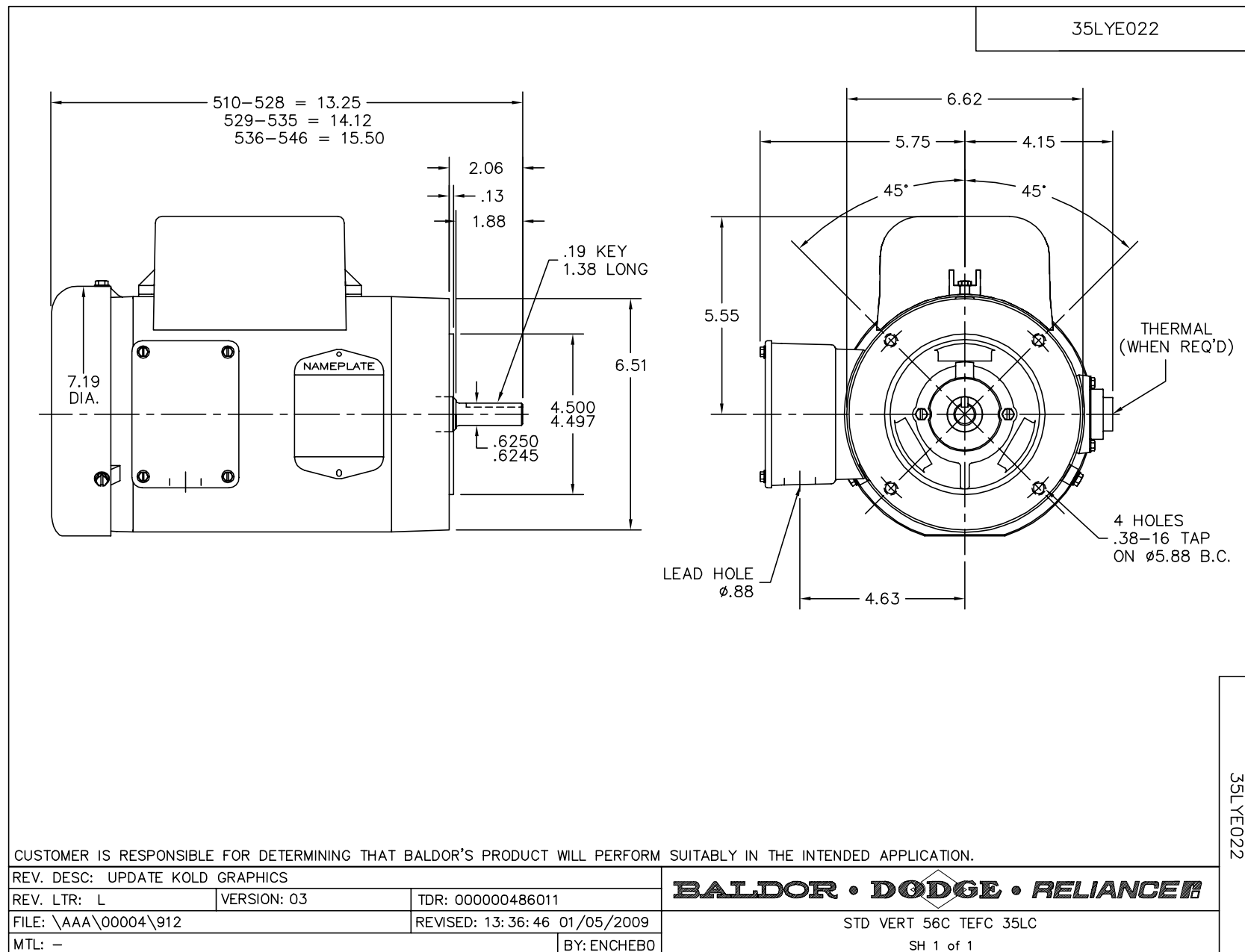
|                          |                                   |                      |            |
|--------------------------|-----------------------------------|----------------------|------------|
| Full Load Torque:        | 4.48 LB-FT                        | Start Configuration: | DOL        |
| No-Load Current:         | 1.76 Amps                         | Break-Down Torque:   | 12.1 LB-FT |
| Line-line Res. @ 25°C.:  | 1.69 Ohms A Ph / 1.5344 Ohms B Ph | Pull-Up Torque:      | 8.43 LB-FT |
| Temp. Rise @ Rated Load: | 69 C                              | Locked-Rotor Torque: | 13.8 LB-FT |
| Temp. Rise @ S.F. Load:  | 82 C                              | Starting Current:    | 49.5 Amps  |

**Load Characteristics**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F.   |
|-----------------|--------|--------|--------|--------|--------|--------|--------|
| Power Factor:   | 83.0   | 91.0   | 95.0   | 96.0   | 96.0   | 96.0   | 96.0   |
| Efficiency:     | 58.3   | 74.3   | 79.3   | 81.2   | 80.3   | 77.8   | 80.7   |
| Speed:          | 1786.8 | 1773.6 | 1758.8 | 1742.3 | 1721.1 | 1696.6 | 1730.0 |
| Line Amperes:   | 2.41   | 3.53   | 4.78   | 6.21   | 7.86   | 9.72   | 7.2    |

## Performance Graph at 230V, 60Hz, 1.5HP Typical performance - Not guaranteed values





CD0055

