

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **VL1317A**

**2HP,3450RPM,1PH,60HZ,56C,3528L,OPEN,F1**

| Part Detail |                              |                |       |             |          |               |            |
|-------------|------------------------------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | AY                           | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC                           | Prod. Type:    | 3528L | Elec. Spec: | 35WGW183 | CD Diagram:   | CD0052     |
| Enclosure:  | OPEN                         | Mfg Plant:     |       | Mech. Spec: | 35E523   | Layout:       | 35LYE523   |
| Frame:      | 56C                          | Mounting:      | F1    | Poles:      | 02       | Created Date: | 06-21-2007 |
| Base:       | N                            | Rotation:      | ROS   | Insulation: | B        | Eff. Date:    | 09-16-2016 |
| Leads:      | 4#14 A&J,2#18 B PH,1#10 #1TH |                |       |             |          | Replaced By:  |            |
| Literature: |                              | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1257L

|              |               |  |                |          |       |  |      |  |      |  |  |
|--------------|---------------|--|----------------|----------|-------|--|------|--|------|--|--|
| CAT.NO.      | VL1317A       |  |                |          |       |  |      |  |      |  |  |
| SPEC.        | 35E523W183    |  |                |          |       |  |      |  |      |  |  |
| HP           | 2             |  |                |          |       |  |      |  |      |  |  |
| VOLTS        | 115/230       |  |                |          |       |  |      |  |      |  |  |
| AMP          | 26/13         |  |                |          |       |  |      |  |      |  |  |
| RPM          | 3450          |  |                |          |       |  |      |  |      |  |  |
| FRAME        | 56C           |  |                |          | HZ 60 |  |      |  | PH 1 |  |  |
| SER.F.       | 1.20          |  | CODE G         |          | DES L |  | CL B |  |      |  |  |
| NEMA-NOM-EFF | 70            |  | PF 69          |          |       |  |      |  |      |  |  |
| RATING       | 40C AMB-CONT  |  |                |          |       |  |      |  |      |  |  |
| CC           |               |  | USABLE AT 208V |          |       |  |      |  | 13   |  |  |
| DE           | 6205          |  |                | ODE 6203 |       |  |      |  |      |  |  |
| ENCL         | OPEN          |  | SN             |          |       |  |      |  |      |  |  |
|              | SFA 27.6/13.8 |  |                |          |       |  |      |  |      |  |  |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA024315    | SA 35E523W183                            | 1.000 EA |
| RA020365    | RA 35E523W183                            | 1.000 EA |
| EC1645A06SP | ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.  | 1.000 EA |
| WD3006A01   | RSS-2-103JT 2W 10K RES. METAL OXIDE 5%   | 1.000 EA |
| 11XT0832G06 | 8-32 X 3/8 TY 23 TAPPING                 | 1.000 EA |
| HW3001B01   | BRASS CUP WASHER, FOR #8 SCREW           | 1.000 EA |
| 35EP3202A09 | FR ENDPLATE, MACH                        | 1.000 EA |
| SP1033A01   | INSULATOR MODEL 35 TERM PANEL            | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 3.000 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 |
| 35EP3400A13 | STD FACE MTD END PLATE OPEN NEMA 56C 05  | 1.000 EA |
| 35AD2000    | AIR BAFFLE                               | 1.000 EA |
| 60XW0632A06 | 6-32 X 3/8 TORX HEAD SCREW TAPTITE II    | 4.000 EA |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR                | 2.000 EA |
| 35FH4500A02 | DRIP COVER, STAMPED (W/ PRIMER           | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA |
| 35CB4500SP  | TERMINAL BOX LID STAMPED                 | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 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 |
| WD1000A15   | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 2.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1000G27              | MED CHARCOAL METALLIC GREY 400-0096      | 0.017 GA |
| HA3100A15              | THRUBOLT 10-32 X 8.375                   | 4.000 EA |
| 35CB4802A02SP          | CAPACITOR COVER, STAMPED X               | 1.000 EA |
| SP5066A01              | MODEL 35 TERMINAL PANEL SWITCH WITH LEAD | 1.000 EA |
| LB1118                 | LABEL,WARNING (ROLL LABEL)               | 1.000 EA |
| LC0052                 | CONNECTION LABEL                         | 1.000 EA |
| NP1257L                | ALUM UL CSA CC THERMAL REV MTG           | 1.000 EA |
| 35PA1066               | PKG GRP, PRINT    PK1008A06              | 1.000 EA |
| PK3083T                | STYROFOAM PACKING CRADLE W/TAPE          | 1.000 EA |
| WD1000D90              | T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 9776 - Typical performance - not guaranteed values

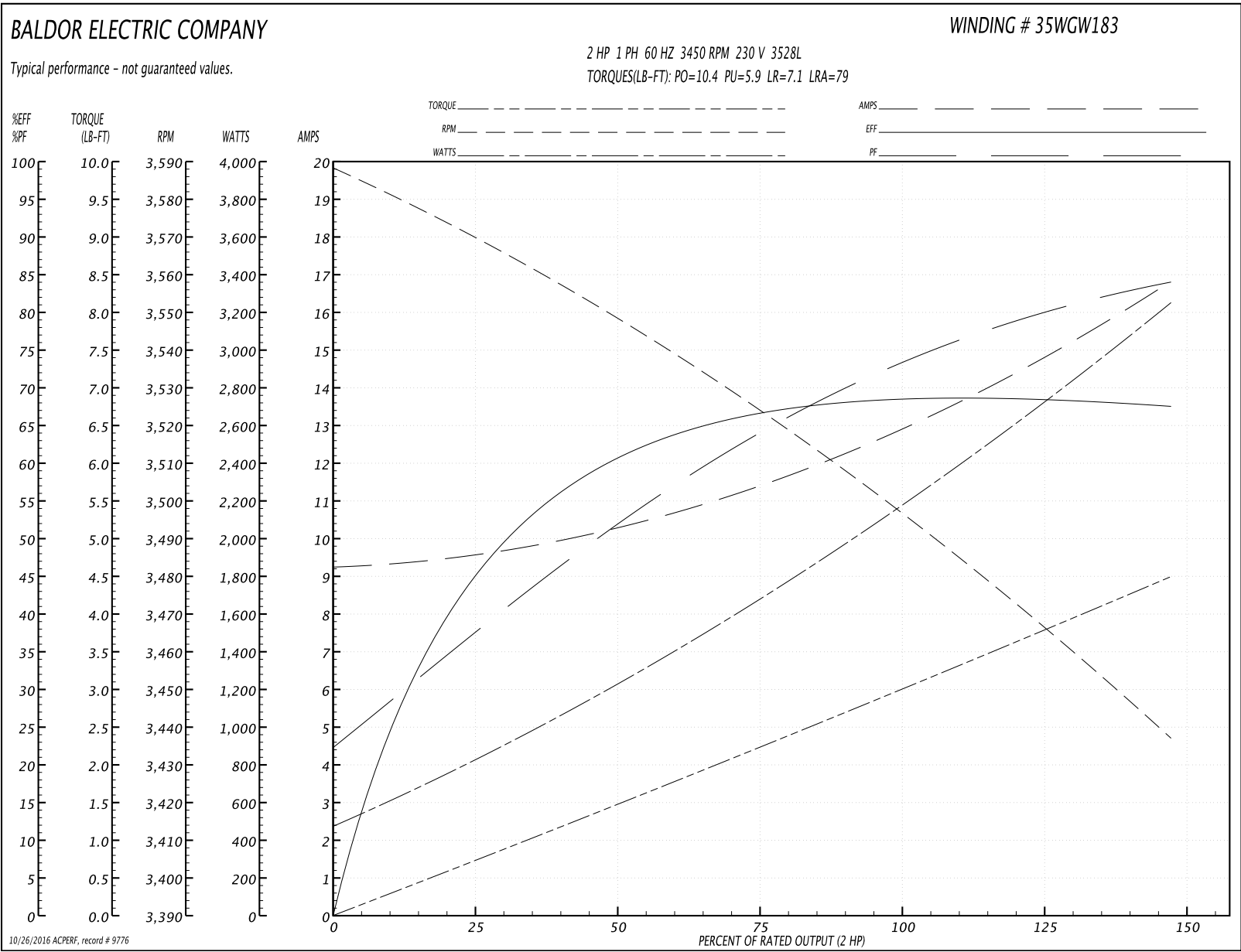
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGW183-R001 | <b>Type:</b> 3528L | <b>Enclosure:</b> OPEN |
|-------------------------------|--------------------|------------------------|

| 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        | 26/13        |              |    | Breakdown Torque                         | 10.4 LB-FT                   |
| R.P.M.                | 3450         |              |    | Pull-up Torque                           | 5.9 LB-FT                    |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                      | 7.1 LB-FT                    |
| NEMA Design Code      | L            | KVA Code     | G  | Starting Current                         | 79 A                         |
| Service Factor (S.F.) | 1.2          |              |    | No-load Current                          | 9.3 A                        |
| NEMA Nom. Eff.        | 70           | Power Factor | 69 | Line-line Res. @ 25°C                    | 0.842 Ω A Ph<br>0.843 Ω B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 77°C                         |
| S.F. Amps             | 27.6/13.8    |              |    | Temp. Rise @ S.F. Load                   | 87°C                         |

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

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 38   | 53   | 65   | 71   | 80   | 84   | 78   |
| Efficiency      | 46   | 60   | 66   | 70   | 68   | 67.5 | 68.4 |
| Speed           | 3569 | 3547 | 3523 | 3498 | 3469 | 3436 | 3475 |
| Line amperes    | 9.5  | 10.3 | 11.4 | 13   | 14.7 | 16.8 | 13.8 |

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



10/26/2016 ACPERF, record # 9776

