

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **L5000A-C**

**.25HP,1725RPM,1PH,60HZ,56,3414L,XPFC,F1**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | M    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3414L | Elec. Spec: | 34WGY855 | CD Diagram:   | CD0565     |
| Enclosure:  | XPFC | Mfg Plant:     |       | Mech. Spec: | 34-6864  | Layout:       | 34LY6864   |
| Frame:      | 56   | Mounting:      | F1    | Poles:      | 04       | Created Date: | 12-05-2007 |
| Base:       | RG   | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 03-06-2014 |
| Leads:      | 7#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP0301XPSL

|                |               |              |     |
|----------------|---------------|--------------|-----|
| NO.            |               | CC           |     |
| SER.           |               |              |     |
| SPEC.          | 34-6864Y855G1 |              |     |
| CAT.NO.        | L5000A-C      |              |     |
| HP             | .25           | T. CODE      | T3C |
| VOLTS          | 115/208-230   |              |     |
| AMPS           | 4.2/2-2.1     |              |     |
| RPM            | 1725          |              |     |
| HZ             | 60            | PH           | 1   |
| SER.F.         | 1.00          | DES          | N   |
| RATING         | 40C AMB-CONT  |              |     |
| FRAME          | 56            | CL           | B   |
| USABLE AT 208V |               | CODE         | L   |
| BLANK          |               | NEMA-NOM-EFF | 62  |
|                |               | PF           | 64  |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA166340      | SA 34-6864Y855G1                         | 1.000 EA |
| RA154720      | RA 34-6864Y855G1                         | 1.000 EA |
| TPMRG61RX     | THERMAL 1PH 0.75 AUT 120C                | 1.000 EA |
| EC1130A08SP   | ELEC CAP 115V 1.125X2.750 X              | 1.000 EA |
| MJ5000A01     | SEALANT, CHICO A COMPOUND                | 0.050 LB |
| 35CB1005A01   | CONDUIT BOX,MACH - GROUP "C" MTRS        | 1.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01     | BRASS CUP WASHER, FOR #8 SCREW           | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA |
| MG1025G29     | WILKOFAS, 789.229, DARK CHARCOAL GRAY    | 0.014 GA |
| 34EP3703A02   | XP ENDPLATE, MACH                        | 1.000 EA |
| HW4002A02     | 1-11.5X2LG PIPE NIPPLE (F/S)             | 1.000 EA |
| HA1025A13     | WSHR,FELT,.38" THICK F-26 CLASS          | 1.000 EA |
| HW3021E06     | 1/8 DIA X 5/8 ROLLPIN (F/S)              | 1.000 EA |
| HW5100A03SP   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 34EP3704A02   | XP ENDPLATE, MACH                        | 1.000 EA |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 EA |
| 34FN3002A01SP | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/  | 1.000 EA |
| 34FH4002A01SP | IEC FH NO GREASER PRIMED                 | 1.000 EA |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 35CB1501A01   | CONDUIT BOX LID, MACH. - GROUP "C" MTRS  | 1.000 EA |
| RM1020A41     | O-RING, -150 BUNA-N, .103 CS X 2.862 ID  | 1.000 EA |
| HW2501D13     | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A04     | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| LB1359                 | ALUM XP CAUTION LABEL                    | 1.000 EA |
| HA6001A01              | THERMAL RETAINER (PLATED)                | 1.000 EA |
| 12XF0632A06            | 6-32X3/8 TY F HEX HD SLT                 | 2.000 EA |
| NS2500A05              | INSULATOR, AUTO THER PROT                | 1.000 EA |
| HA6003A52              | CLAMP, CAPACITOR, WHITE ZINC PLATED      | 1.000 EA |
| 51XW0832A07            | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 1.000 EA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 6.000 EA |
| WD1000A16              | 2-520128-2 AMP FLAG TERMINAL(4M/RL)      | 5.000 EA |
| SP5036A02              | STAT.SWITCH ASSY. MODEL 34-TYPE L OR S - | 1.000 EA |
| WD1000A16              | 2-520128-2 AMP FLAG TERMINAL(4M/RL)      | 6.000 EA |
| WD1000A16              | 2-520128-2 AMP FLAG TERMINAL(4M/RL)      | 8.000 EA |
| HA3104A05              | THRUBOLT, 5/16-18 X 8.375                | 4.000 EA |
| LB1118                 | LABEL,WARNING (ROLL LABEL)               | 1.000 EA |
| LC0008                 | CONNECTION LABEL                         | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 11/14 | 1.000 EA |
| NP0301XPSL             | SS XP UL CSA CC CL-I GP-C&D CL-II GP-F&G | 1.000 EA |
| 35PA1007               | PKG GRP, PRINT      PK1034A06            | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 36349 - Typical performance - not guaranteed values

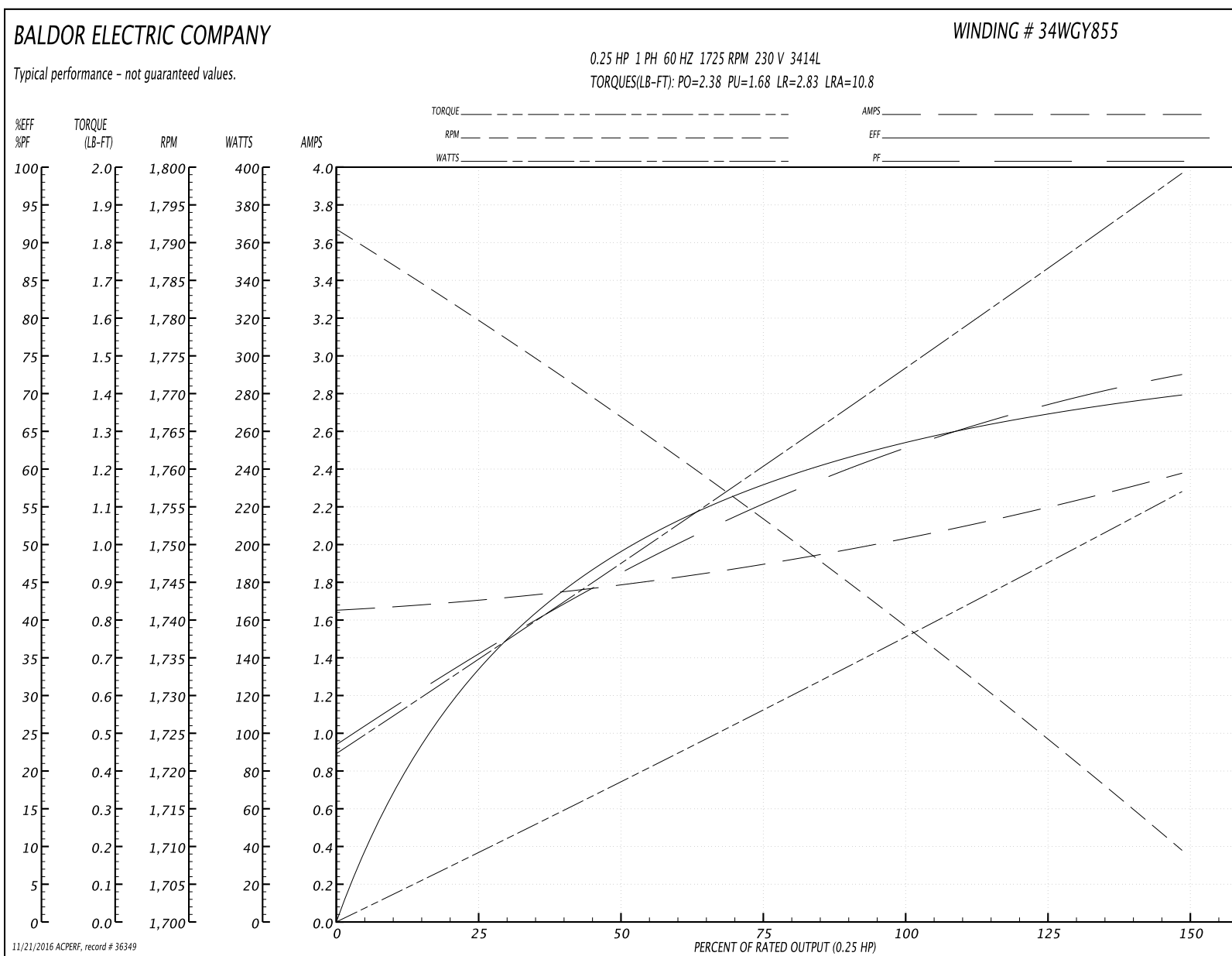
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 34WGY855-R006 | <b>Type:</b> 3414L | <b>Enclosure:</b> XPFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>High Voltage Connection |                                          |
|-----------------------|--------------|--------------|----|------------------------------------------|------------------------------------------|
| Rated Output (HP)     | .25          |              |    | Full Load Torque                         | 0.762 LB-FT                              |
| Volts                 | 115/208-230  |              |    | Start Configuration                      | direct on line                           |
| Full Load Amps        | 4.2/2-2.1    |              |    | Breakdown Torque                         | 2.38 LB-FT                               |
| R.P.M.                | 1725         |              |    | Pull-up Torque                           | 1.68 LB-FT                               |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                      | 2.83 LB-FT                               |
| NEMA Design Code      | N            | KVA Code     | L  | Starting Current                         | 10.8 A                                   |
| Service Factor (S.F.) | 1            |              |    | No-load Current                          | 1.67 A                                   |
| NEMA Nom. Eff.        | 62           | Power Factor | 64 | Line-line Res. @ 25°C                    | 9.23 $\Omega$ A Ph<br>8.97 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 43°C                                     |

**Load Characteristics 230 V, 60 Hz, 0.25 HP**

|                 |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
| Power Factor    | 35   | 47   | 54   | 64   | 69   | 72   |
| Efficiency      | 35.2 | 50   | 60.6 | 61.8 | 65.7 | 71.6 |
| Speed           | 1780 | 1767 | 1753 | 1738 | 1722 | 1711 |
| Line amperes    | 1.69 | 1.78 | 1.88 | 2.07 | 2.23 | 2.35 |

## Performance Graph at 230V, 60Hz, 0.25HP Typical performance - Not guaranteed values



**AC Induction Motor Performance Data**

Record # 41431 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 34WGY855-R006 | <b>Type:</b> 3414L | <b>Enclosure:</b> XPFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 115 V, 60 Hz:<br>Low Voltage Connection |                                          |
|-----------------------|--------------|--------------|----|-----------------------------------------|------------------------------------------|
| Rated Output (HP)     | .25          |              |    | Full Load Torque                        | 0.762 LB-FT                              |
| Volts                 | 115/208-230  |              |    | Start Configuration                     | direct on line                           |
| Full Load Amps        | 4.2/2-2.1    |              |    | Breakdown Torque                        | 2.38 LB-FT                               |
| R.P.M.                | 1725         |              |    | Pull-up Torque                          | 1.68 LB-FT                               |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                     | 2.83 LB-FT                               |
| NEMA Design Code      | N            | KVA Code     | L  | Starting Current                        | 21.6 A                                   |
| Service Factor (S.F.) | 1            |              |    | No-load Current                         | 3.34 A                                   |
| NEMA Nom. Eff.        | 62           | Power Factor | 64 | Line-line Res. @ 25°C                   | 2.22 $\Omega$ A Ph<br>8.87 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                 |                                          |

**Load Characteristics 115 V, 60 Hz, 0.25 HP**

|                 |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
| Power Factor    | 35   | 47   | 55   | 64   | 69   | 72   |
| Efficiency      | 35.2 | 50   | 60.6 | 61.9 | 65.6 | 71.2 |
| Speed           | 1780 | 1767 | 1753 | 1738 | 1722 | 1711 |
| Line amperes    | 3.38 | 3.56 | 3.76 | 4.14 | 4.46 | 4.7  |

Performance Graph at 115V, 60Hz, 0.25HP Typical performance - Not guaranteed values

