

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **RSP1441A**

**.25HP,1725RPM,1PH,60HZ,48,3411S,OPEN,F1**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | F    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3411S | Elec. Spec: | 34WGR054 | CD Diagram:   | CD0763     |
| Enclosure:  | OPEN | Mfg Plant:     |       | Mech. Spec: | 34M234   | Layout:       | 34LYM234   |
| Frame:      | 48   | Mounting:      | F1    | Poles:      | 04       | Created Date: | 05-16-2013 |
| Base:       | RS   | Rotation:      | RS    | Insulation: | B        | Eff. Date:    | 12-03-2013 |
| Leads:      | 5#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

|                   |              |                |  |  |      |     |  |   |    |   |
|-------------------|--------------|----------------|--|--|------|-----|--|---|----|---|
| Nameplate NP1257L |              |                |  |  |      |     |  |   |    |   |
| CAT.NO.           |              |                |  |  |      |     |  |   |    |   |
| SPEC.             | 34M234R054G1 |                |  |  |      |     |  |   |    |   |
| HP                | .25          |                |  |  |      |     |  |   |    |   |
| VOLTS             | 115          |                |  |  |      |     |  |   |    |   |
| AMP               | 4.3          |                |  |  |      |     |  |   |    |   |
| RPM               | 1725         |                |  |  |      |     |  |   |    |   |
| FRAME             | 48           | HZ             |  |  | 60   | PH  |  | 1 |    |   |
| SER.F.            | 1.25         | CODE           |  |  | P    | DES |  | - | CL | B |
| NEMA-NOM-EFF      | 57.5         | PF             |  |  | 64   |     |  |   |    |   |
| RATING            | 40C AMB-CONT |                |  |  |      |     |  |   |    |   |
| CC                |              | USABLE AT 208V |  |  |      |     |  |   |    |   |
| DE                | 6203         | ODE            |  |  | 6203 |     |  |   |    |   |
| ENCL              | OPEN         | SN             |  |  |      |     |  |   |    |   |
|                   | SFA 4.7      |                |  |  |      |     |  |   |    |   |

| Parts List   |                                          |          |
|--------------|------------------------------------------|----------|
| Part Number  | Description                              | Quantity |
| SA263158     | SA 34M234R054G1                          | 1.000 EA |
| RA249881     | RA 34M234R054G1                          | 1.000 EA |
| 34CB4501SP   | TERMINAL BOX LID, STAMPED X (PLATED)     | 1.000 EA |
| 51XW0832A07  | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA |
| 11XT0832G06  | 8-32 X 3/8 TY 23 TAPPING                 | 1.000 EA |
| LD5000A52    | LEAD ASSY W/INTERNAL STAR RING TERMINALS | 1.000 EA |
| 51XW1032A06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 2.000 EA |
| 34EP3202A27  | FR. ENDPLATE, MACH.                      | 1.000 EA |
| 51XW0832A07  | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 3.000 EA |
| RM1000A03SP  | CUSHION RING, MDL 17-33-34               | 1.000 EA |
| HA6004A01A   | CLAMP CUSHION RING ASSY                  | 1.000 EA |
| HW5100A03SP  | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 34EP3203A01  | PU ENDPLATE, MACH                        | 1.000 EA |
| RM1000A03SP  | CUSHION RING, MDL 17-33-34               | 1.000 EA |
| HA6004A01A   | CLAMP CUSHION RING ASSY                  | 1.000 EA |
| XY1032A02    | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 EA |
| 10XF0440S02  | 04-40 X 1/8 TYPE F HEX HD STAINLESS STIC | 2.000 EA |
| 34BA4001A01A | RESILIENT BASE, 408-416 AUTOPHORETIC     | 1.000 EA |
| WD1000A16    | 2-520128-2 AMP FLAG TERMINAL(4M/RL)      | 5.000 EA |
| HA3100A12    | THRUBOLT 10-32 X 7.375                   | 4.000 EA |
| SP5068A05    | 34 TERM PANEL SWITCH W/ 8-RED LEAD       | 1.000 EA |
| LB1172A01    | CUSTOM MTR CARTON LABEL LASER PRINTER    | 1.000 EA |
| LC0085       | CONNECTION LABEL                         | 1.000 EA |
| LB1118       | LABEL,WARNING (ROLL LABEL)               | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| LB1506                 | LABEL "AMERICAN MADE" 1.50 X 1.00        | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 10/13 | 1.000 EA |
| NP1257L                | ALUM UL CSA CC THERMAL REV MTG           | 1.000 EA |
| 34PA1002               | PACKING GROUP, BALDOR                    | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 42887 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 34WGR054-R001 | <b>Type:</b> 3411S | <b>Enclosure:</b> OPEN |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 115 V, 60 Hz:<br>Single Voltage Motor |                                              |
|-----------------------|--------------|--------------|----|---------------------------------------|----------------------------------------------|
| Rated Output (HP)     | .25          |              |    | Full Load Torque                      | 0.762 LB-FT                                  |
| Volts                 | 115          |              |    | Start Configuration                   | direct on line                               |
| Full Load Amps        | 4.3          |              |    | Breakdown Torque                      | 1.72 LB-FT                                   |
| R.P.M.                | 1725         |              |    | Pull-up Torque                        | 0.597 LB-FT                                  |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                   | 0.89 LB-FT                                   |
| NEMA Design Code      | -            | KVA Code     | P  | Starting Current                      | 30.4 A                                       |
| Service Factor (S.F.) | 1.25         |              |    | No-load Current                       | 3.53 A                                       |
| NEMA Nom. Eff.        | 57.5         | Power Factor | 64 | Line-line Res. @ 25°C                 | 3.0769 $\Omega$ A Ph<br>5.1789 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load               | 54°C                                         |
| S.F. Amps             | 4.7          |              |    | Temp. Rise @ S.F. Load                | 65°C                                         |

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

|                 |        |        |        |        |        |        |      |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
| Power Factor    | 35     | 46     | 56     | 64     | 71     | 76     | 71   |
| Efficiency      | 33     | 48.3   | 56     | 59.8   | 60.5   | 59.2   | 60.5 |
| Speed           | 1782.2 | 1767.7 | 1752.4 | 1735.2 | 1715.4 | 1689.6 | 1715 |
| Line amperes    | 3.6    | 3.72   | 3.95   | 4.27   | 4.71   | 5.32   | 4.71 |

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





