

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EL3403**

**.25HP,1745RPM,1PH,60HZ,48,3414LC,TEFC,F1**

| Part Detail |      |                |        |             |          |               |            |
|-------------|------|----------------|--------|-------------|----------|---------------|------------|
| Revision:   | AA   | Status:        | PRD/A  | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3414LC | Elec. Spec: | 34WGW955 | CD Diagram:   | CD0055     |
| Enclosure:  | TEFC | Mfg Plant:     |        | Mech. Spec: | 34G374   | Layout:       | 34LYG374   |
| Frame:      | 48   | Mounting:      | F1     | Poles:      | 04       | Created Date: |            |
| Base:       | RG   | Rotation:      | R      | Insulation: | F        | Eff. Date:    | 05-25-2016 |
| Leads:      | 6#18 |                |        |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |        |             |          |               |            |

## Nameplate NP2116L

|              |              |  |  |      |    |     |      |   |                |    |   |
|--------------|--------------|--|--|------|----|-----|------|---|----------------|----|---|
| CAT.NO.      | EL3403       |  |  |      |    |     |      |   |                |    |   |
| SPEC.        | 34G374W955G1 |  |  |      |    |     |      |   |                |    |   |
| HP           | .25          |  |  |      |    |     |      |   |                |    |   |
| VOLTS        | 115/230      |  |  |      |    |     |      |   |                |    |   |
| AMP          | 2.5/1.25     |  |  |      |    |     |      |   |                |    |   |
| RPM          | 1745         |  |  |      |    |     |      |   |                |    |   |
| FRAME        | 48           |  |  |      |    | HZ  | 60   |   |                | PH | 1 |
| SER.F.       | 1.35         |  |  | CODE | K  |     | DES  | - |                | CL | F |
| NEMA-NOM-EFF | 74           |  |  | PF   | 89 |     |      |   |                |    |   |
| RATING       | 40C AMB-CONT |  |  |      |    |     |      |   |                |    |   |
| CC           |              |  |  |      |    |     |      |   | USABLE AT 208V |    |   |
| DE           | 6203         |  |  |      |    | ODE | 6203 |   |                |    |   |
| ENCL         | TEFC         |  |  | SN   |    |     |      |   |                |    |   |
|              | SFA 3.2/1.6  |  |  |      |    |     |      |   |                |    |   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA006943      | SA 34G374W955G1                          | 1.000 EA |
| RA003390      | RA 34G374W955G1                          | 1.000 EA |
| OC3015F12SP   | CYL OIL CAP 15MFD/370V                   | 1.000 EA |
| EC1108A01     | ELEC CAP, 108-130 MFD, 125V, 1.48D X 2.  | 1.000 EA |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 34CB3002A     | CB CAST W/.88 DIA HOLE                   | 1.000 EA |
| 34GS1029A01   | GASKET, CONDUIT BOX                      | 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 |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 EA |
| 34EP3102A01SP | FR ENDPLATE, MACH                        | 1.000 EA |
| 34CB3801      | CAPACITOR BOX, DIE CAST                  | 1.000 EA |
| 34GS3002      | GASKET, CAPACITOR BOX                    | 1.000 EA |
| NS2501A02     | INSULATOR, CAPACITOR BOX                 | 1.000 EA |
| 34GS5003A01   | FOAM SLEEVE, ID = 2 1/16" X 4 3/8"       | 1.000 EA |
| 51XB1214A08   | 12-14 X 1/2HX WS SL SR TYBX              | 2.000 EA |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 34EP3102A02SP | FR/PU ENDPLATE, MACH                     | 1.000 EA |
| XY1032A02     | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 EA |
| 34FN3002A01SP | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/  | 1.000 EA |
| 34FH4002A01   | IEC FH NO GREASER PRIMED                 | 1.000 EA |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 34CB4517      | CB LID 4 MTG HOLES .22 DIA STAMPED, FOR  | 1.000 EA |
| 34GS1031A01   | GASKET, FLAT CONDUIT BOX LID (LEXIDE)    | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 51XW0832A07            | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| 10XF0440S02            | 04-40 X 1/8 TYPE F HEX HD STAINLESS STIC | 2.000 EA |
| SP5051B17              | MDL 34 TORQ STAT SW,TYPE LC, STD F1 & F2 | 1.000 EA |
| HA3100A44              | THRUBOLT 10-32 X 8.000                   | 4.000 EA |
| MG1000Y03              | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,      | 0.014 GA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 11/14 | 1.000 EA |
| LC0001A01              | CONN LABEL / WARNING LABEL (LC0001 / LB1 | 1.000 EA |
| NP2116L                | ALUM SUPER-E UL CSA CC                   | 1.000 EA |
| 35PA1000               | PKG GRP, PRINT     PK1008A06             | 1.000 EA |

| Accessories |             |            |
|-------------|-------------|------------|
| Part Number | Description | Multiplier |
| 34-3900T    | C-FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 20831 - Typical performance - not guaranteed values

|                               |                     |                        |
|-------------------------------|---------------------|------------------------|
| <b>Winding:</b> 34WGW955-R002 | <b>Type:</b> 3414LC | <b>Enclosure:</b> TEFC |
|-------------------------------|---------------------|------------------------|

| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>High Voltage Connection |                                           |
|-----------------------|--------------|--------------|----|------------------------------------------|-------------------------------------------|
| Rated Output (HP)     | .25          |              |    | Full Load Torque                         | 0.75 LB-FT                                |
| Volts                 | 115/230      |              |    | Start Configuration                      | direct on line                            |
| Full Load Amps        | 2.5/1.25     |              |    | Breakdown Torque                         | 1.9 LB-FT                                 |
| R.P.M.                | 1745         |              |    | Pull-up Torque                           | 1.7 LB-FT                                 |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                      | 2.4 LB-FT                                 |
| NEMA Design Code      | -            | KVA Code     | K  | Starting Current                         | 9.1 A                                     |
| Service Factor (S.F.) | 1.35         |              |    | No-load Current                          | 0.7 A                                     |
| NEMA Nom. Eff.        | 74           | Power Factor | 89 | Line-line Res. @ 25°C                    | 10.04 $\Omega$ A Ph<br>7.87 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 27°C                                      |
| S.F. Amps             | 3.2/1.6      |              |    | Temp. Rise @ S.F. Load                   | 34°C                                      |

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

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 64   | 77   | 83   | 87   | 89   | 91   | 90   |
| Efficiency      | 45.7 | 62.4 | 69.5 | 73.5 | 74.7 | 74.2 | 75.2 |
| Speed           | 1786 | 1775 | 1763 | 1749 | 1732 | 1712 | 1725 |
| Line amperes    | 0.7  | 0.9  | 1.1  | 1.3  | 1.5  | 1.8  | 1.6  |

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







