

# **BALDOR® • RELIANCE**

## **Product Information Packet**

# **EL11304**

**.5HP,1725RPM,1PH,60HZ,56,3424LC,ODP,F1,N**

| Part Detail |      |                |        |             |          |               |            |
|-------------|------|----------------|--------|-------------|----------|---------------|------------|
| Revision:   | D    | Status:        | PRD/A  | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3424LC | Elec. Spec: | 34WGR141 | CD Diagram:   | CD0055     |
| Enclosure:  | ODP  | Mfg Plant:     |        | Mech. Spec: | 34F353   | Layout:       | 34LYF353   |
| Frame:      | 56   | Mounting:      | F1     | Poles:      | 04       | Created Date: | 03-11-2014 |
| Base:       | RG   | Rotation:      | R      | Insulation: | F        | Eff. Date:    | 07-20-2015 |
| Leads:      | 6#18 |                |        |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |        |             |          |               |            |

## Nameplate NP3155L

|                |              |  |      |                |      |    |  |    |   |    |   |
|----------------|--------------|--|------|----------------|------|----|--|----|---|----|---|
| CAT.NO.        | EL11304      |  |      |                |      |    |  |    |   |    |   |
| SPEC.          | 34F353R141G1 |  |      |                |      |    |  |    |   |    |   |
| HP             | .5           |  |      |                |      |    |  |    |   |    |   |
| VOLTS          | 115/230      |  |      |                |      |    |  |    |   |    |   |
| AMP            | 4.7/2.35     |  |      |                |      |    |  |    |   |    |   |
| RPM            | 1725         |  |      |                |      |    |  |    |   |    |   |
| FRAME          | 56           |  |      |                | HZ   | 60 |  |    |   | PH | 1 |
| SER.F.         | 1.25         |  | CODE | K              | DES  | N  |  | CL | F |    |   |
| F.L. AVG. EFF. | 76.2         |  |      | PF             | 98   |    |  |    |   |    |   |
| RATING         | 40C AMB-CONT |  |      |                |      |    |  |    |   |    |   |
| CC             |              |  |      | USABLE AT 208V |      |    |  |    |   |    |   |
| DE             | 6203         |  |      | ODE            | 6203 |    |  |    |   |    |   |
| ENCL           | ODP          |  | SN   |                |      |    |  |    |   |    |   |
|                | SFA 5.9/2.95 |  |      |                |      |    |  |    |   |    |   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA277757      | SA 34F353R141G1                          | 1.000 EA |
| RA264305      | RA 34F353R141G1                          | 1.000 EA |
| OC3030F11SP   | CYL OIL CAP 30MFD/370V                   | 1.000 EA |
| EC1324A02     | ELEC CAP, 324-389 MFD, 125V, 1.48D X 3.  | 1.000 EA |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 34CB3002A     | CB CAST W/.88 DIA HOLE                   | 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 |
| SP1006A01     | TERM. BOARD, MODE 35 SW X H-23655        | 1.000 EA |
| 34EP3210A01SP | FR ENDPLATE, MACH                        | 1.000 EA |
| 34CB3801      | CAPACITOR BOX, DIE CAST                  | 1.000 EA |
| 51XB1214A08   | 12-14 X 1/2HX WS SL SR TYBX              | 2.000 EA |
| 34GS5003A01   | FOAM SLEEVE, ID = 2 1/16" X 4 3/8"       | 1.000 EA |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 34EP3212A02   | PU ENDPLATE, MODEL 34 OPEN               | 1.000 EA |
| XY1032A02     | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 EA |
| 34CB4517      | CB LID 4 MTG HOLES .22 DIA STAMPED, FOR  | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501D13     | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A04     | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 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 |
| HA3100A45     | THRUBOLT 10-32 X 8.875                   | 4.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 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 |
| NP3155L                | ALUM SUPER-E UL CSA CC "SEMS"            | 1.000 EA |
| 35PA1000               | PKG GRP, PRINT      PK1008A06            | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 46811 - Typical performance - not guaranteed values

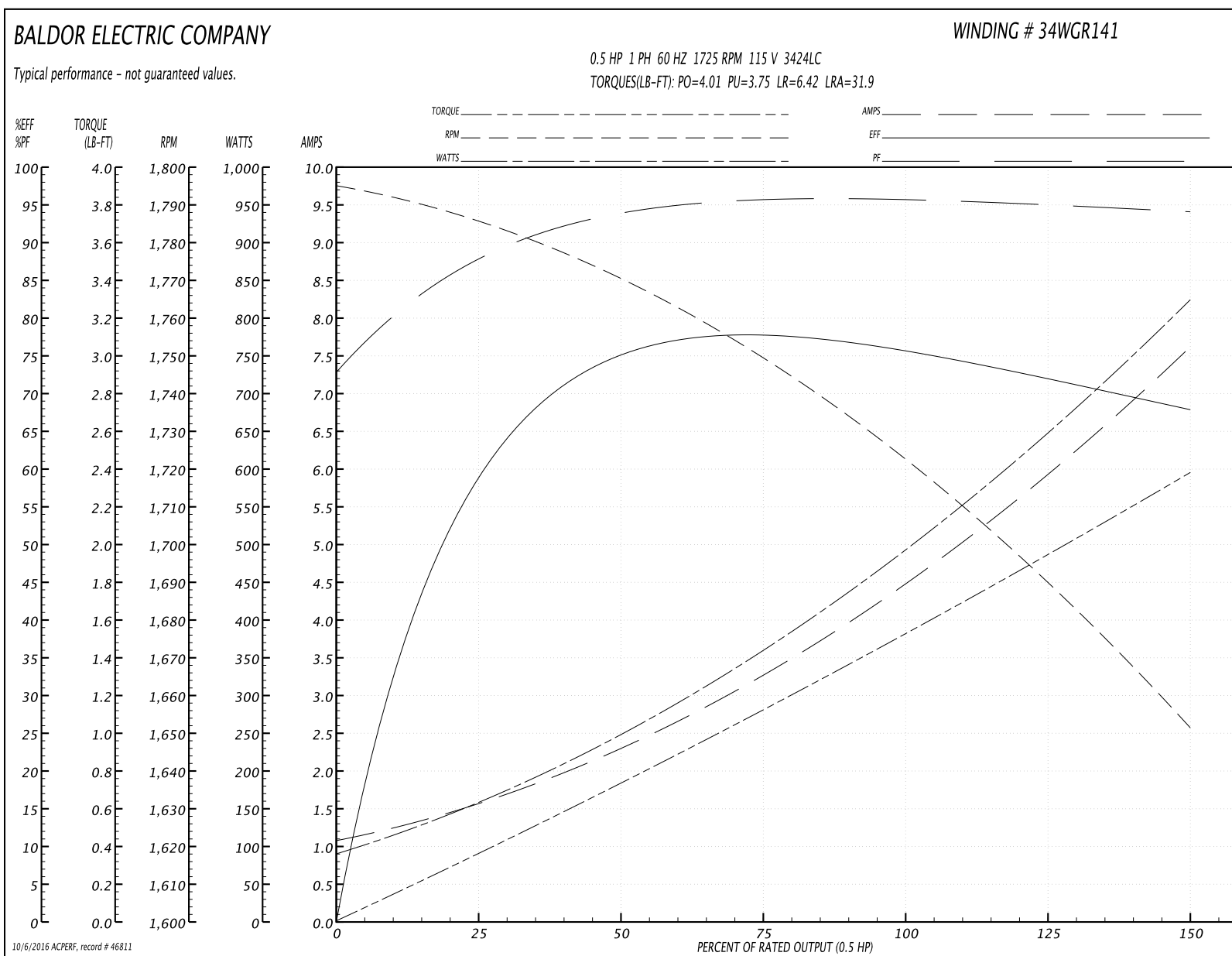
|                               |                     |                        |
|-------------------------------|---------------------|------------------------|
| <b>Winding:</b> 34WGR141-R001 | <b>Type:</b> 3424LC | <b>Enclosure:</b> OPEN |
|-------------------------------|---------------------|------------------------|

| Nameplate Data        |              |              |    | 115 V, 60 Hz:<br>Low Voltage Connection |                                              |
|-----------------------|--------------|--------------|----|-----------------------------------------|----------------------------------------------|
| Rated Output (HP)     | .5           |              |    | Full Load Torque                        | 1.51 LB-FT                                   |
| Volts                 | 115/230      |              |    | Start Configuration                     | direct on line                               |
| Full Load Amps        | 4.7/2.35     |              |    | Breakdown Torque                        | 4.01 LB-FT                                   |
| R.P.M.                | 1725         |              |    | Pull-up Torque                          | 3.75 LB-FT                                   |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                     | 6.42 LB-FT                                   |
| NEMA Design Code      | N            | KVA Code     | K  | Starting Current                        | 31.9 A                                       |
| Service Factor (S.F.) | 1.25         |              |    | No-load Current                         | 1.06 A                                       |
| NEMA Nom. Eff.        | 76.2         | Power Factor | 98 | Line-line Res. @ 25°C                   | 1.6786 $\Omega$ A Ph<br>2.0496 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                 | 37°C                                         |
| S.F. Amps             | 5.9/2.95     |              |    | Temp. Rise @ S.F. Load                  | 55°C                                         |

## Load Characteristics 115 V, 60 Hz, 0.5 HP

|                 |        |        |        |        |        |        |      |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
| Power Factor    | 89     | 94     | 95     | 95     | 95     | 94     | 95   |
| Efficiency      | 59.9   | 73     | 76.8   | 76.6   | 73.3   | 67.1   | 73.3 |
| Speed           | 1782.8 | 1767.7 | 1748.6 | 1726.8 | 1694.2 | 1648.1 | 1694 |
| Line amperes    | 1.56   | 2.34   | 3.34   | 4.39   | 5.8    | 7.69   | 5.8  |

## Performance Graph at 115V, 60Hz, 0.5HP Typical performance - Not guaranteed values



**AC Induction Motor Performance Data**

Record # 49832 - Typical performance - not guaranteed values

|                               |                     |                        |
|-------------------------------|---------------------|------------------------|
| <b>Winding:</b> 34WGR141-R001 | <b>Type:</b> 3424LC | <b>Enclosure:</b> OPEN |
|-------------------------------|---------------------|------------------------|

| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>High Voltage Connection |                            |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------------------|
| Rated Output (HP)     | .5           |              |    | Full Load Torque                         | 1.51 LB-FT                 |
| Volts                 | 115/230      |              |    | Start Configuration                      | direct on line             |
| Full Load Amps        | 4.7/2.35     |              |    | Breakdown Torque                         | 4.01 LB-FT                 |
| R.P.M.                | 1725         |              |    | Pull-up Torque                           | 2.84 LB-FT                 |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                      | 4.87 LB-FT                 |
| NEMA Design Code      | N            | KVA Code     | K  | Starting Current                         | 14.97 A                    |
| Service Factor (S.F.) | 1.25         |              |    | No-load Current                          | 0.571 A                    |
| NEMA Nom. Eff.        | 76.2         | Power Factor | 98 | Line-line Res. @ 25°C                    | 6.38 Ω A Ph<br>2.09 Ω B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 40°C                       |
| S.F. Amps             | 5.9/2.95     |              |    | Temp. Rise @ S.F. Load                   | 53°C                       |
|                       |              |              |    | Rotor inertia                            | 0.057 LB-FT <sup>2</sup>   |

**Load Characteristics 230 V, 60 Hz, 0.5 HP**

| % of Rated Load | 25    | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|-------|------|------|------|------|------|------|
| Power Factor    | 89    | 93   | 95   | 96   | 95   | 94   | 95   |
| Efficiency      | 57.8  | 71.3 | 75.5 | 75.6 | 72.6 | 66.9 | 72.6 |
| Speed           | 1783  | 1768 | 1749 | 1727 | 1694 | 1648 | 1694 |
| Line amperes    | 0.809 | 1.2  | 1.7  | 2.22 | 2.93 | 3.87 | 2.93 |



## Performance Graph at 230V, 60Hz, 0.5HP Typical performance - Not guaranteed values

