

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **L3504**

**.5HP,1725RPM,1PH,60HZ,56,3421L,TEFC,F1**

| Part Detail       |              |                |       |                |          |               |            |  |  |
|-------------------|--------------|----------------|-------|----------------|----------|---------------|------------|--|--|
| Revision:         | W            | Status:        | PRD/A | Change #:      |          | Proprietary:  | No         |  |  |
| Type:             | AC           | Prod. Type:    | 3421L | Elec. Spec:    | 34WG5422 | CD Diagram:   |            |  |  |
| Enclosure:        | TEFC         | Mfg Plant:     |       | Mech. Spec:    | 34C061   | Layout:       |            |  |  |
| Frame:            | 56           | Mounting:      | F1    | Poles:         | 04       | Created Date: |            |  |  |
| Base:             | RG           | Rotation:      | R     | Insulation:    | B        | Eff. Date:    | 04-06-2011 |  |  |
| Leads:            | 6#18         | Literature:    |       | Elec. Diagram: |          | Replaced By:  |            |  |  |
| Nameplate NP1256L |              |                |       |                |          |               |            |  |  |
| CAT.NO.           | L3504        |                |       |                |          |               |            |  |  |
| SPEC.             | 34C61-5422   |                |       |                |          |               |            |  |  |
| HP                | .5           |                |       |                |          |               |            |  |  |
| VOLTS             | 115/230      |                |       |                |          |               |            |  |  |
| AMP               | 7.4/3.7      |                |       |                |          |               |            |  |  |
| RPM               | 1725         |                |       |                |          |               |            |  |  |
| FRAME             | 56           | HZ             | 60    | PH             | 1        |               |            |  |  |
| SER.F.            | 1.25         | CODE           | J     | DES            | N        | CLASS         | B          |  |  |
| NEMA-NOM-EFF      | 68           | PF             | 66    |                |          |               |            |  |  |
| RATING            | 40C AMB-CONT |                |       |                |          |               |            |  |  |
| CC                |              | USABLE AT 208V | 4.3   |                |          |               |            |  |  |
| DE                | 6203         | ODE            | 6203  |                |          |               |            |  |  |
| ENCL              | TEFC         | SN             |       |                |          |               |            |  |  |
|                   | SFA 8.2/4.1  |                |       |                |          |               |            |  |  |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA008593      | SA 34C61-5422                            | 1.000 EA |
| RA005040      | RA 34C61-5422                            | 1.000 EA |
| EC1270A02SP   | ELEC CAP, 270-324 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 |
| 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 |
| NS2500A01     | INSULATOR, AUTO THER PROT                | 1.000 EA |
| WD1000A03     | 41531 AMP FLG.TERM,4M/REEL(2.5MIL)       | 1.000 EA |
| 34CB4800SP    | CAPACITOR COVER, STAMPED                 | 1.000 EA |
| 34GS3000SP    | GASKET, CAPACITOR BOX                    | 1.000 EA |
| 51XB1016A05   | 10-16X5/16HX WA SL SR TYB (F/S)          | 2.000 EA |
| HW5100A03SP   | 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 |
| 34FH4002A01SP | IEC FH NO GREASER                        | 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 |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HW2501D13SP            | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A04              | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 EA |
| MG1000G27              | PAINT- S9282E CHARCOAL GREY 55 GALLONS   | 0.014 GA |
| 10XF0440S02            | 04-40 X 1/8 TYPE F HEX HD STAINLESS STIC | 2.000 EA |
| SP5056A24              | MODEL 34 TYPE L STATIONARY SWITCH WITH L | 1.000 EA |
| HA3100A44              | THRUBOLT 10-32 X 8.000                   | 4.000 EA |
| LB1125C01              | STD (STOCK) CARTON LABEL BALDOR WITH FLA | 1.000 EA |
| LC0001A01              | CONN LABEL / WARNING LABEL (LC0001 / LB1 | 1.000 EA |
| NP1256L                | ALUM, UL CSA CC, W/O THERMAL, LASER      | 1.000 EA |
| 34PA1002               | PACKING GROUP, BALDOR                    | 1.000 EA |

**Accessories**

| Part Number | Description | Multiplier |
|-------------|-------------|------------|
| 34-171      | C FACE KIT  | A8         |

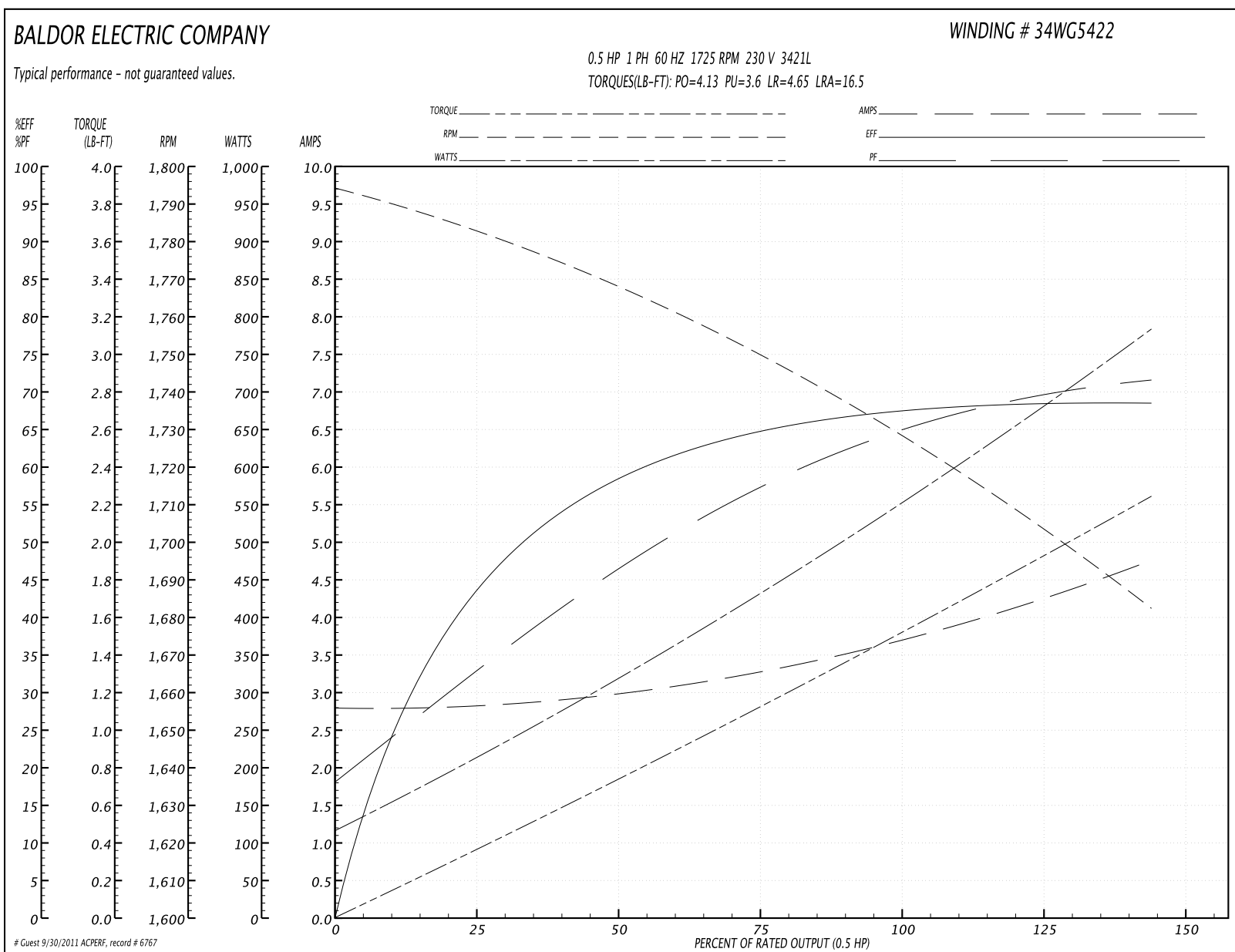
**Performance Data at 230V, 60Hz, 0.5HP (Typical performance - Not guaranteed values)****General Characteristics**

|                                 |                                 |                             |            |
|---------------------------------|---------------------------------|-----------------------------|------------|
| <b>Full Load Torque:</b>        | 1.5 LB-FT                       | <b>Start Configuration:</b> | DOL        |
| <b>No-Load Current:</b>         | 2.8 Amps                        | <b>Break-Down Torque:</b>   | 4.13 LB-FT |
| <b>Line-line Res. @ 25°C.:</b>  | 4.44 Ohms A Ph / 3.19 Ohms B Ph | <b>Pull-Up Torque:</b>      | 3.6 LB-FT  |
| <b>Temp. Rise @ Rated Load:</b> | 63 C                            | <b>Locked-Rotor Torque:</b> | 4.65 LB-FT |
| <b>Temp. Rise @ S.F. Load:</b>  | 77 C                            | <b>Starting Current:</b>    | 16.5 Amps  |

**Load Characteristics**

| <b>% of Rated Load</b> | <b>25</b> | <b>50</b> | <b>75</b> | <b>100</b> | <b>125</b> | <b>150</b> | <b>S.F.</b> |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| <b>Power Factor:</b>   | 32.0      | 46.0      | 59.0      | 66.0       | 72.0       | 80.0       | 72.0        |
| <b>Efficiency:</b>     | 42.0      | 58.0      | 65.0      | 68.0       | 69.0       | 68.0       | 69.0        |
| <b>Speed:</b>          | 1783.0    | 1765.0    | 1750.0    | 1730.0     | 1710.0     | 1680.0     | 1710.0      |
| <b>Line Amperes:</b>   | 2.8       | 3.0       | 3.3       | 3.7        | 4.1        | 4.8        | 4.1         |

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



**Performance Data at 115V, 60Hz, 0.37KW (Typical performance - Not guaranteed values)****General Characteristics**

|                                 |                                 |                             |           |
|---------------------------------|---------------------------------|-----------------------------|-----------|
| <b>Full Load Torque:</b>        | 2.03 N-M                        | <b>Start Configuration:</b> | DOL       |
| <b>No-Load Current:</b>         | 5.6 Amps                        | <b>Break-Down Torque:</b>   | 5.6 N-M   |
| <b>Line-line Res. @ 25°C.:</b>  | 1.06 Ohms A Ph / 3.13 Ohms B Ph | <b>Pull-Up Torque:</b>      | 4.88 N-M  |
| <b>Temp. Rise @ Rated Load:</b> | 63 C                            | <b>Locked-Rotor Torque:</b> | 6.3 N-M   |
| <b>Temp. Rise @ S.F. Load:</b>  | 77 C                            | <b>Starting Current:</b>    | 33.0 Amps |

**Load Characteristics**

| <b>% of Rated Load</b> | <b>25</b> | <b>50</b> | <b>75</b> | <b>100</b> | <b>125</b> | <b>150</b> | <b>S.F.</b> |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| <b>Power Factor:</b>   | 35.0      | 47.0      | 57.0      | 64.0       | 70.0       | 72.0       | 70.0        |
| <b>Efficiency:</b>     | 41.9      | 58.2      | 64.8      | 67.9       | 68.9       | 67.9       | 68.9        |
| <b>Speed:</b>          | 1783.0    | 1765.0    | 1750.0    | 1730.0     | 1710.0     | 1680.0     | 1710.0      |
| <b>Line Amperes:</b>   | 5.6       | 6.0       | 6.6       | 7.4        | 8.2        | 9.6        | 8.2         |

## Performance Graph at 115V, 60Hz, 0.37KW Typical performance - Not guaranteed values

