

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EL3405**

**.33HP,3450RPM,1PH,60HZ,48,3420LC,TEFC,F1**

| Part Detail |      |                |        |             |          |               |            |
|-------------|------|----------------|--------|-------------|----------|---------------|------------|
| Revision:   | H    | Status:        | PRD/A  | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3420LC | Elec. Spec: | 34WGY788 | CD Diagram:   | CD0055     |
| Enclosure:  | TEFC | Mfg Plant:     |        | Mech. Spec: | 34G374   | Layout:       | 34LYG374   |
| Frame:      | 48   | Mounting:      | F1     | Poles:      | 02       | Created Date: | 11-06-2008 |
| Base:       | RG   | Rotation:      | R      | Insulation: | F        | Eff. Date:    | 05-25-2016 |
| Leads:      | 6#18 |                |        |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |        |             |          |               |            |

## Nameplate NP2116L

|              |              |  |  |  |  |  |                |      |  |  |
|--------------|--------------|--|--|--|--|--|----------------|------|--|--|
| CAT.NO.      | EL3405       |  |  |  |  |  |                |      |  |  |
| SPEC.        | 34G374Y788G1 |  |  |  |  |  |                |      |  |  |
| HP           | .33          |  |  |  |  |  |                |      |  |  |
| VOLTS        | 115/208-230  |  |  |  |  |  |                |      |  |  |
| AMP          | 3.2/1.7-1.6  |  |  |  |  |  |                |      |  |  |
| RPM          | 3450         |  |  |  |  |  |                |      |  |  |
| FRAME        | 48           |  |  |  |  |  | HZ             | 60   |  |  |
| SER.F.       | 1.35         |  |  |  |  |  | CODE           | L    |  |  |
| NEMA-NOM-EFF | 72           |  |  |  |  |  | DES            | N    |  |  |
|              |              |  |  |  |  |  | CL             | F    |  |  |
|              |              |  |  |  |  |  | PF             | 96   |  |  |
| RATING       | 40C AMB-CONT |  |  |  |  |  |                |      |  |  |
| CC           |              |  |  |  |  |  | USABLE AT 208V |      |  |  |
| DE           | 6203         |  |  |  |  |  | ODE            | 6203 |  |  |
| ENCL         | TEFC         |  |  |  |  |  | SN             |      |  |  |
|              | SFA 4/2.2-2  |  |  |  |  |  |                |      |  |  |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA177142      | SA 34G374Y788G1                          | 1.000 EA |
| RA165194      | RA 34G374Y788G1                          | 1.000 EA |
| OC3012F12SP   | CYL OIL CAP 12MFD/370V                   | 1.000 EA |
| EC1088A01     | ELEC CAP, 88-106 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 |
| SP5056A18              | MODEL 34 TYPE LC STATIONARY SWITCH WITH  | 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 |

**AC Induction Motor Performance Data**

Record # 50675 - Typical performance - not guaranteed values

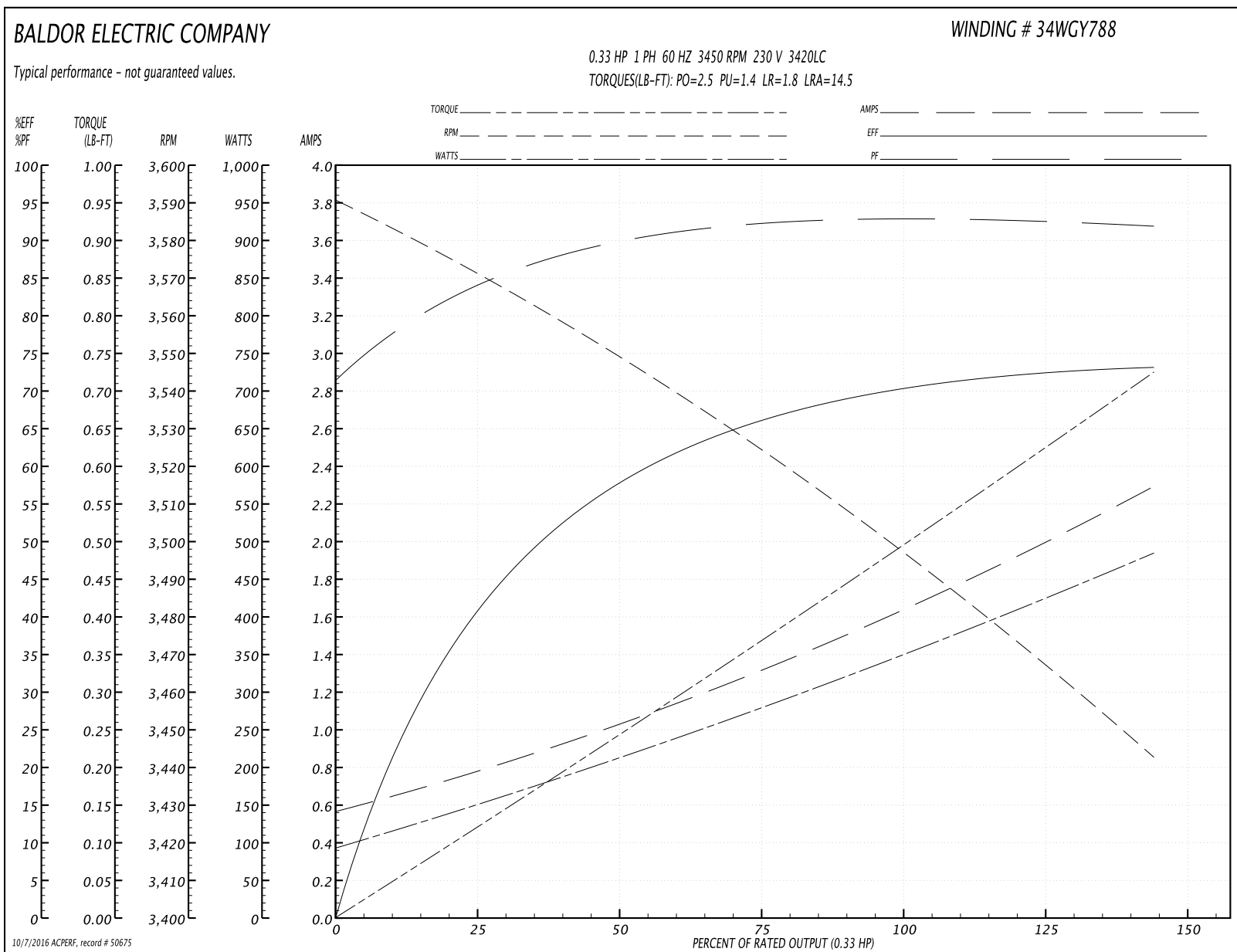
|                               |                     |                        |
|-------------------------------|---------------------|------------------------|
| <b>Winding:</b> 34WGY788-R004 | <b>Type:</b> 3420LC | <b>Enclosure:</b> TEFC |
|-------------------------------|---------------------|------------------------|

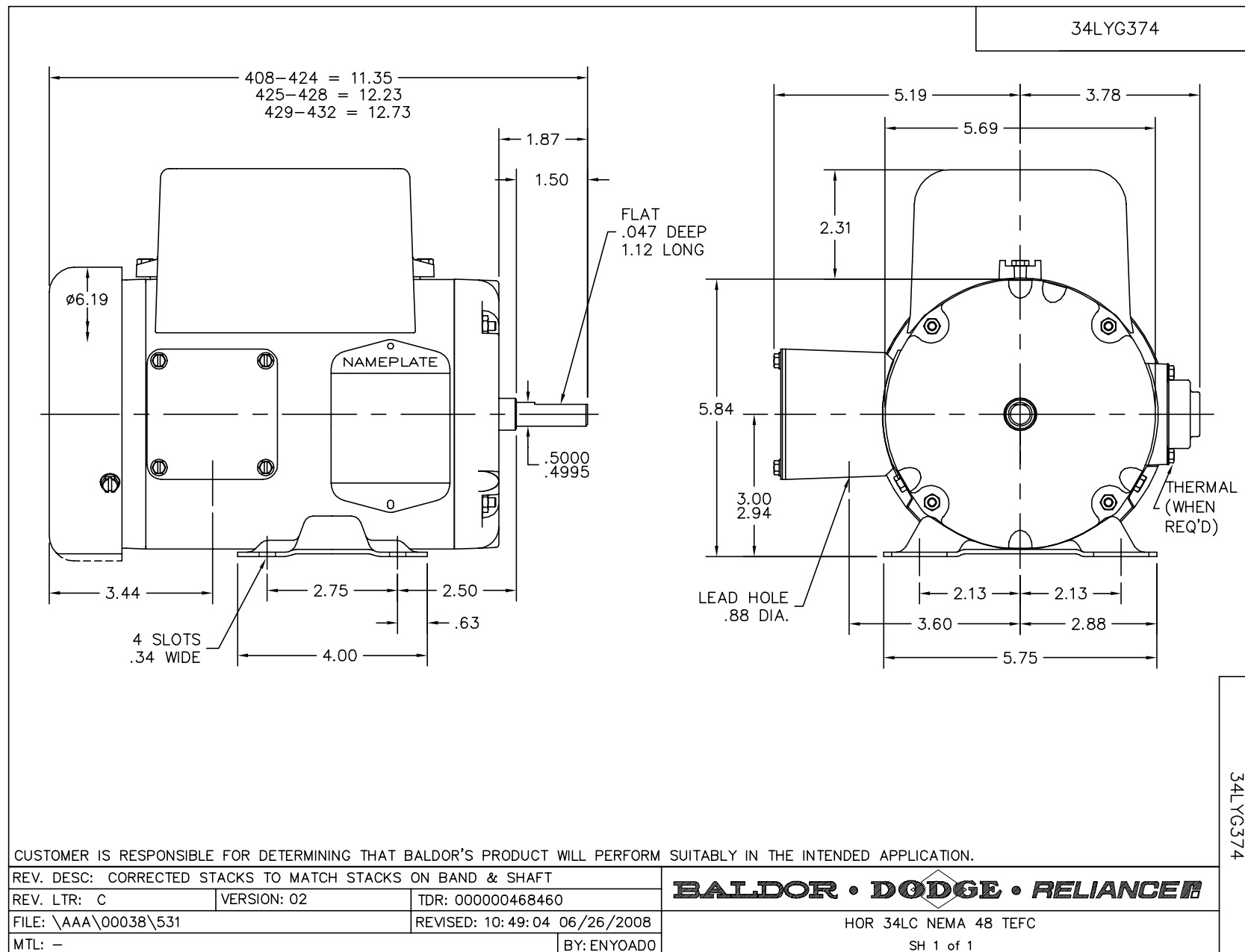
| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>High Voltage Connection |                                          |
|-----------------------|--------------|--------------|----|------------------------------------------|------------------------------------------|
| Rated Output (HP)     | .33          |              |    | Full Load Torque                         | 0.489 LB-FT                              |
| Volts                 | 115/208-230  |              |    | Start Configuration                      | direct on line                           |
| Full Load Amps        | 3.2/1.7-1.6  |              |    | Breakdown Torque                         | 2.5 LB-FT                                |
| R.P.M.                | 3450         |              |    | Pull-up Torque                           | 1.4 LB-FT                                |
| Hz                    | 60           | Phase        | 1  | Locked-rotor Torque                      | 1.8 LB-FT                                |
| NEMA Design Code      | N            | KVA Code     | L  | Starting Current                         | 14.5 A                                   |
| Service Factor (S.F.) | 1.35         |              |    | No-load Current                          | 0.55 A                                   |
| NEMA Nom. Eff.        | 72           | Power Factor | 96 | Line-line Res. @ 25°C                    | 4.32 $\Omega$ A Ph<br>6.27 $\Omega$ B Ph |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 33°C                                     |
| S.F. Amps             | 4/2.2-2      |              |    | Temp. Rise @ S.F. Load                   | 39°C                                     |

## Load Characteristics 230 V, 60 Hz, 0.33 HP

|                 |       |      |      |      |      |      |      |
|-----------------|-------|------|------|------|------|------|------|
| % of Rated Load | 25    | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 83    | 88   | 93   | 94   | 93   | 91   | 92   |
| Efficiency      | 41.1  | 57.6 | 66.3 | 70.3 | 72.5 | 73   | 72.7 |
| Speed           | 3566  | 3544 | 3527 | 3502 | 3474 | 3439 | 3460 |
| Line amperes    | 0.798 | 1.06 | 1.31 | 1.6  | 1.94 | 2.31 | 2.09 |

## Performance Graph at 230V, 60Hz, 0.33HP Typical performance - Not guaranteed values





CD0055

