

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **L3709T**

**7.5HP,3450RPM,1PH,60HZ,213T,3735LC,TEFC**

Copyright © All product information within this document is subject to Baldor Electric Company copyright © protection, unless otherwise noted.

| Part Detail       |                     |                |        |                |          |               |            |  |  |
|-------------------|---------------------|----------------|--------|----------------|----------|---------------|------------|--|--|
| Revision:         | -                   | Status:        | PRD/A  | Change #:      |          | Proprietary:  | No         |  |  |
| Type:             | AC                  | Prod. Type:    | 3735LC | Elec. Spec:    | 37WGW579 | CD Diagram:   |            |  |  |
| Enclosure:        | TEFC                | Mfg Plant:     |        | Mech. Spec:    | 37M324   | Layout:       |            |  |  |
| Frame:            | 213T                | Mounting:      | F1     | Poles:         | 02       | Created Date: | 02-11-2010 |  |  |
| Base:             | RG                  | Rotation:      | R      | Insulation:    | B        | Eff. Date:    | 02-18-2010 |  |  |
| Leads:            | 2#10 A PH,2#14 B PH | Literature:    |        | Elec. Diagram: |          | Replaced By:  |            |  |  |
| Nameplate NP1256L |                     |                |        |                |          |               |            |  |  |
| CAT.NO.           | L3709T              |                |        |                |          |               |            |  |  |
| SPEC.             | 37M324W579G1        |                |        |                |          |               |            |  |  |
| HP                | 7.5                 |                |        |                |          |               |            |  |  |
| VOLTS             | 230                 |                |        |                |          |               |            |  |  |
| AMP               | 33                  |                |        |                |          |               |            |  |  |
| RPM               | 3450                |                |        |                |          |               |            |  |  |
| FRAME             | 213T                | HZ             | 60     | PH             | 1        |               |            |  |  |
| SER.F.            | 1.00                | CODE           | F      | DES            | L        | CLASS         | B          |  |  |
| NEMA-NOM-EFF      | 83                  | PF             | 91     |                |          |               |            |  |  |
| RATING            | 40C AMB-CONT        |                |        |                |          |               |            |  |  |
| CC                |                     | USABLE AT 208V | 36     |                |          |               |            |  |  |
| DE                | 6307                | ODE            | 6206   |                |          |               |            |  |  |
| ENCL              | TEFC                | SN             |        |                |          |               |            |  |  |
|                   |                     |                |        |                |          |               |            |  |  |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA190953      | SA 37M324W579G1                          | 1.000 EA |
| RA178618      | RA 37M324W579G1                          | 1.000 EA |
| HA6361A01     | LIFTING LUG FOR 37, 39 & 40 FRAME (AUTOP | 2.000 EA |
| 37CB3006      | 37 CB CASTING W/1.38 LEAD HOLE @ 6:00    | 1.000 EA |
| 37GS1000SP    | GASKET, CONDUIT BOX STD., .06 THICK LEXI | 1.000 EA |
| 51XW2520A12   | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 37EP3101A01SP | FR ENDPLATE,TEFC, 37 L&M, W/GREASER      | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| 13XT0832A07   | 8-32X7/16 TYP 23 PAN HD SLT DX           | 2.000 EA |
| 37GS3012A01   | GASKET,CAP.BOX 1/16"THICKLEXIDE SV-330 T | 1.000 EA |
| 10XN2520A10   | 1/4-20X 5/8 HEX HD X                     | 2.000 EA |
| HW1001A25     | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA |
| HW5100A06     | W2420-025 WVY WSHR (WB)                  | 1.000 EA |
| 37EP3100A01SP | STD PU ENDPLATE, ENCL,37 "T"-307 BRG, W/ | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 EA |
| 51XB1214A20   | 12-14X1.25 HXWSSLD SERTYB                | 1.000 EA |
| 07FH4007A41   | IEC FH W/GRSR, NOTCH @ 6:00 & 3 FAN CVR  | 1.000 EA |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 37CB4516      | LIPPED LID FOR 37 FRAME NEC KOBX         | 1.000 EA |
| 37GS1008SP    | 37 GS FOR CB LID - LEXIDE                | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501F21     | KEY, 5/16 SQ X 2.375                     | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HA7000A02              | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 EA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| LB1115                 | LABEL,LIFTING DEVICE                     | 1.000 EA |
| 37CB5005A02            | CAPACITOR BOX KIT, 37CB3802, OC3025F11,  | 1.000 EA |
| MJ1000A75              | GREASE, POLYREX EM EXXON                 | 0.050 LB |
| 37FN3002A01SP          | EXFN, PLASTIC, 9.00 OD, 1.155 ID         | 1.000 EA |
| MG1000G27              | PAINT- S9282E CHARCOAL GREY              | 0.028 GA |
| SP5172A05              | 37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY | 1.000 EA |
| NS2539                 | INSULATOR FOR 37 FRAMESWITCH (MH1011A10) | 1.000 EA |
| HA3104A27              | THRUBOLT 5/16 18 X 12.438 X              | 4.000 EA |
| LB1125C01              | STD (STOCK) CARTON LABEL BALDOR WITH FLA | 1.000 EA |
| LB1119                 | WARNING LABEL                            | 1.000 EA |
| LC0017                 | CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO | 1.000 EA |
| NP1256L                | ALUM UL CSA CC                           | 1.000 EA |
| 36PA1001               | PACKAGING GROUP                          | 1.000 EA |

| Accessories |             |            |
|-------------|-------------|------------|
| Part Number | Description | Multiplier |
| 37-3301     | C FACE KIT  | P1         |

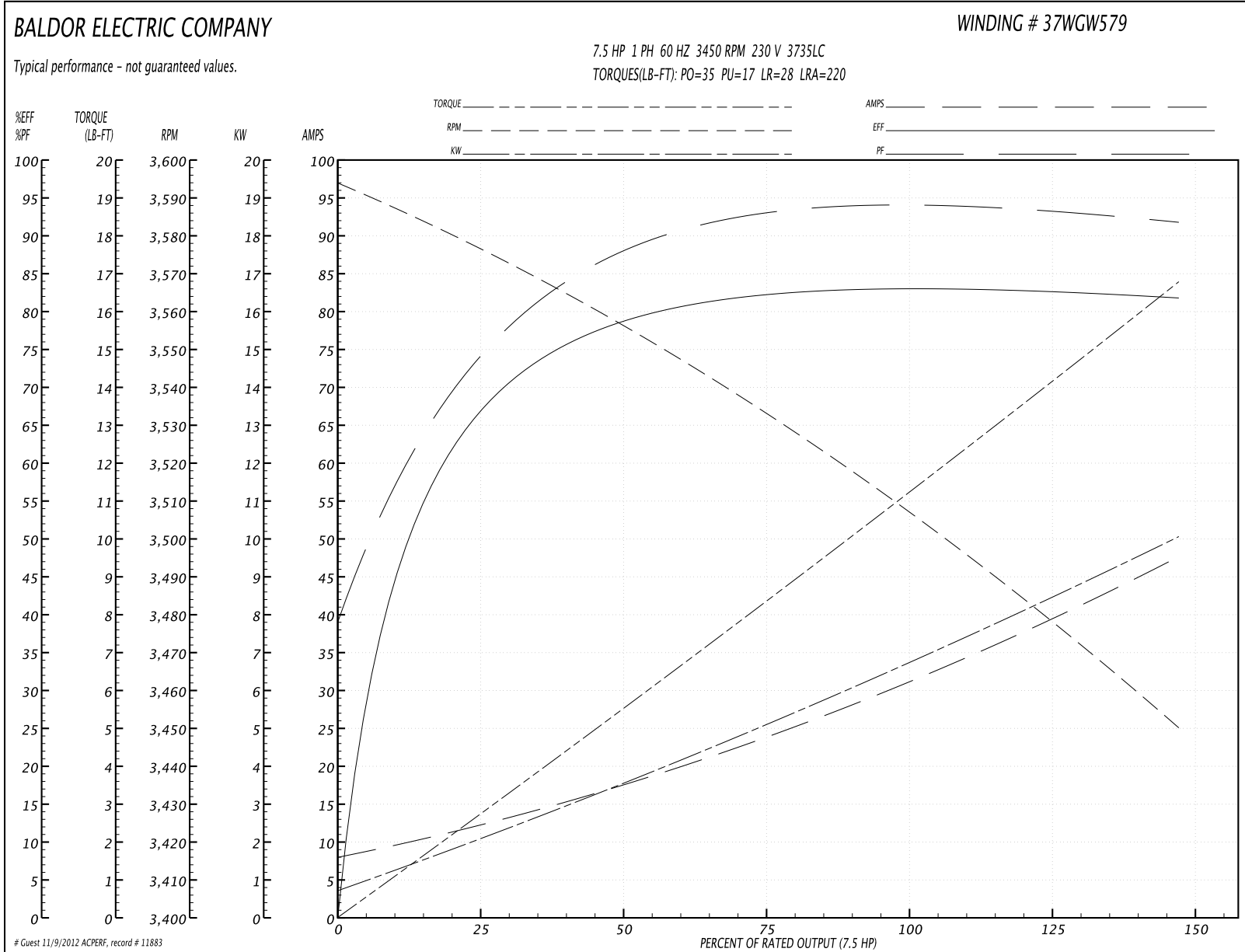
**Performance Data at 230V, 60Hz, 7.5HP (Typical performance - Not guaranteed values)****General Characteristics**

|                          |                                 |                      |            |
|--------------------------|---------------------------------|----------------------|------------|
| Full Load Torque:        | 11.2 LB-FT                      | Start Configuration: | DOL        |
| No-Load Current:         | 8.2 Amps                        | Break-Down Torque:   | 35.0 LB-FT |
| Line-line Res. @ 25°C.:  | 0.22 Ohms A Ph / 0.98 Ohms B Ph | Pull-Up Torque:      | 17.0 LB-FT |
| Temp. Rise @ Rated Load: | 88 C                            | Locked-Rotor Torque: | 28.0 LB-FT |
| Temp. Rise @ S.F. Load:  |                                 | Starting Current:    | 220.0 Amps |

**Load Characteristics**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor:   | 76.0   | 88.0   | 92.0   | 94.0   | 94.0   | 94.0   | 0.0  |
| Efficiency:     | 66.7   | 78.4   | 82.2   | 83.3   | 82.9   | 81.6   | 0.0  |
| Speed:          | 3575.0 | 3555.0 | 3533.0 | 3508.0 | 3481.0 | 3449.0 | 0.0  |
| Line Amperes:   | 12.0   | 17.6   | 24.1   | 31.2   | 39.0   | 47.6   | 0.0  |

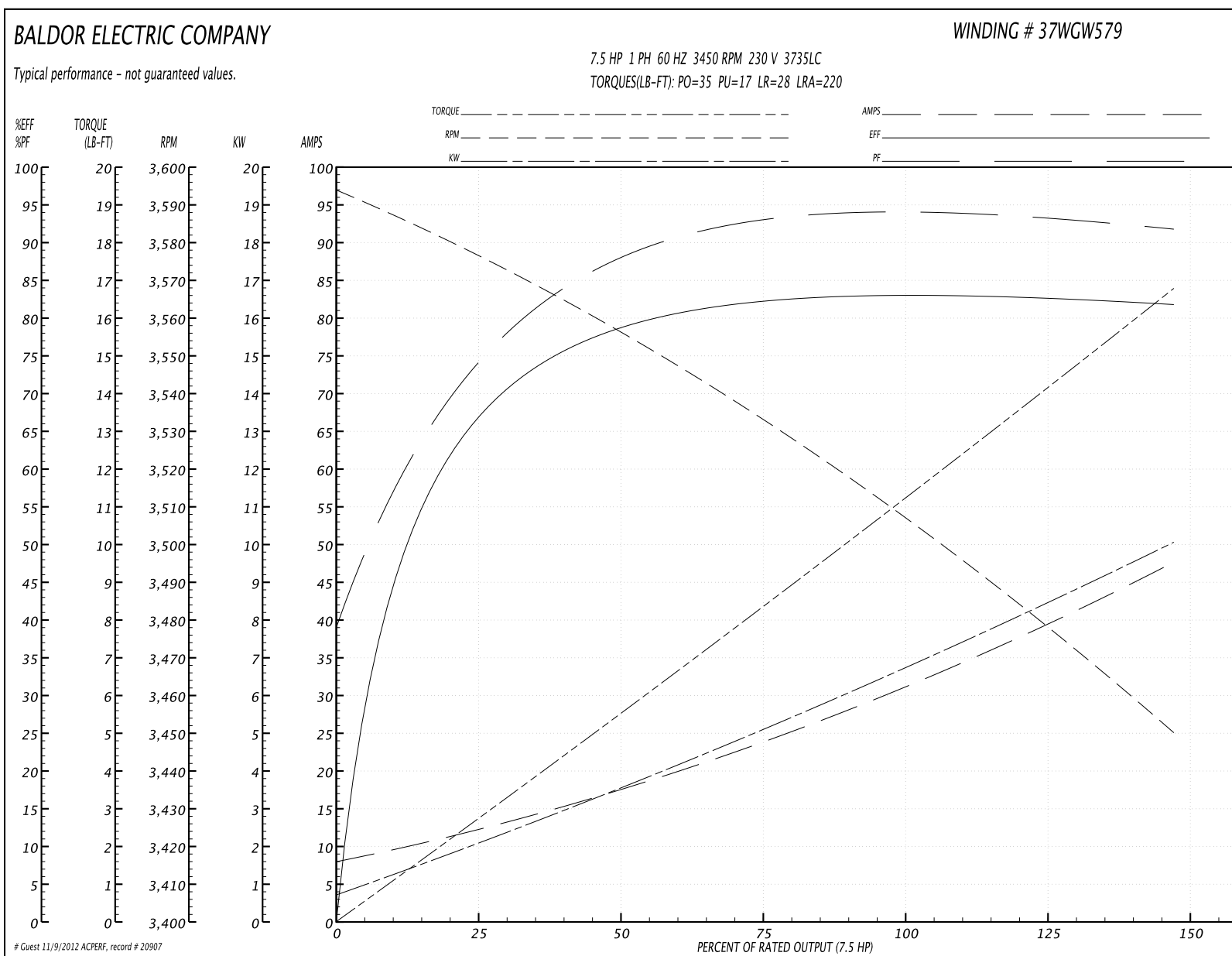
## Performance Graph at 230V, 60Hz, 7.5HP Typical performance - Not guaranteed values



**Performance Data at 230V, 60Hz, 7.5HP (Typical performance - Not guaranteed values)**

| General Characteristics  |        |                                 |        |                      |        |            |      |
|--------------------------|--------|---------------------------------|--------|----------------------|--------|------------|------|
| Full Load Torque:        |        | 11.2 LB-FT                      |        | Start Configuration: |        | DOL        |      |
| No-Load Current:         |        | 8.2 Amps                        |        | Break-Down Torque:   |        | 35.0 LB-FT |      |
| Line-line Res. @ 25°C.:  |        | 0.22 Ohms A Ph / 0.98 Ohms B Ph |        | Pull-Up Torque:      |        | 17.0 LB-FT |      |
| Temp. Rise @ Rated Load: |        | 88 C                            |        | Locked-Rotor Torque: |        | 28.0 LB-FT |      |
| Temp. Rise @ S.F. Load:  |        |                                 |        | Starting Current:    |        | 220.0 Amps |      |
| Load Characteristics     |        |                                 |        |                      |        |            |      |
| % of Rated Load          | 25     | 50                              | 75     | 100                  | 125    | 150        | S.F. |
| Power Factor:            | 76.0   | 88.0                            | 92.0   | 94.0                 | 94.0   | 94.0       | 0.0  |
| Efficiency:              | 66.7   | 78.4                            | 82.2   | 83.3                 | 82.9   | 81.6       | 0.0  |
| Speed:                   | 3575.0 | 3555.0                          | 3533.0 | 3508.0               | 3481.0 | 3449.0     | 0.0  |
| Line Amperes:            | 12.0   | 17.6                            | 24.1   | 31.2                 | 39.0   | 47.6       | 0.0  |

## Performance Graph at 230V, 60Hz, 7.5HP Typical performance - Not guaranteed values





CD0017A02

