

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **M1009T**

**7.5/1.9HP,1725/850RPM,3PH,60HZ,215T**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | V    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3735M | Elec. Spec: | 37WGW616 | CD Diagram:   | CD0032     |
| Enclosure:  | OPEN | Mfg Plant:     |       | Mech. Spec: | 37B001   | Layout:       | 37LYB001   |
| Frame:      | 215T | Mounting:      | F1    | Poles:      | 04/08    | Created Date: |            |
| Base:       | RG   | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 04-30-2009 |
| Leads:      | 6#12 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

|                   |              |                |  |  |      |     |  |   |       |   |
|-------------------|--------------|----------------|--|--|------|-----|--|---|-------|---|
| Nameplate NP1256L |              |                |  |  |      |     |  |   |       |   |
| CAT.NO.           | M1009T       |                |  |  |      |     |  |   |       |   |
| SPEC.             | 37B01W616    |                |  |  |      |     |  |   |       |   |
| HP                | 7.5/1.9      |                |  |  |      |     |  |   |       |   |
| VOLTS             | 230          |                |  |  |      |     |  |   |       |   |
| AMP               | 20/7.5       |                |  |  |      |     |  |   |       |   |
| RPM               | 1725/850     |                |  |  |      |     |  |   |       |   |
| FRAME             | 215T         | HZ             |  |  | 60   | PH  |  | 3 |       |   |
| SER.F.            | 1.15         | CODE           |  |  | J    | DES |  | B | CLASS | B |
| NEMA-NOM-EFF      |              | PF             |  |  |      |     |  |   |       |   |
| RATING            | 40C AMB-CONT |                |  |  |      |     |  |   |       |   |
| CC                |              | USABLE AT 208V |  |  |      |     |  |   |       |   |
| DE                | 6307         | ODE            |  |  | 6206 |     |  |   |       |   |
| ENCL              | OPEN         | SN             |  |  |      |     |  |   |       |   |
|                   |              |                |  |  |      |     |  |   |       |   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA030359      | SA 37B01W616                             | 1.000 EA |
| RA026400      | RA 37B01W616                             | 1.000 EA |
| HW3200A01     | 3/8-16X3/4 I-BLT WELDED F/S              | 1.000 EA |
| 37CB3006      | 37 CB CASTING W/1.38 LEAD HOLE @ 6:00    | 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 |
| 37EP3200A01SP | FR ENDPLATE, 37L&M, OPEN, MACH, W/GREASE | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HW5100A06     | W2420-025 WVY WSHR (WB)                  | 1.000 EA |
| 37EP3201A01   | PU ENDPLATE, MACH                        | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 EA |
| 37CB4516      | LIPPED LID FOR 37 FRAME NEC KOBX         | 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 |
| 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 |
| LB1115N       | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| MJ1000A75     | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1000G27     | MED CHARCOAL METALLIC GREY               | 0.028 GA |
| HA3104A14     | THRUBOLT- 5/16-18 X12.125(OHIO)          | 4.000 EA |
| LB1119N       | WARNING LABEL                            | 1.000 EA |
| LB1125C01     | STD (STOCK) CARTON LABEL BALDOR WITH FLA | 1.000 EA |
| LC0032        | CONNECTION LABEL                         | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| NP1256L                | ALUM UL CSA CC                           | 1.000 EA |
| 36PA1001               | PACKAGING GROUP                          | 1.000 EA |
| LB1506                 | LABEL "AMERICAN MADE" 1.50 X 1.00        | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 10/13 | 1.000 EA |

| Accessories |             |            |
|-------------|-------------|------------|
| Part Number | Description | Multiplier |
| 37-1404     | C FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 11888 - Typical performance - not guaranteed values

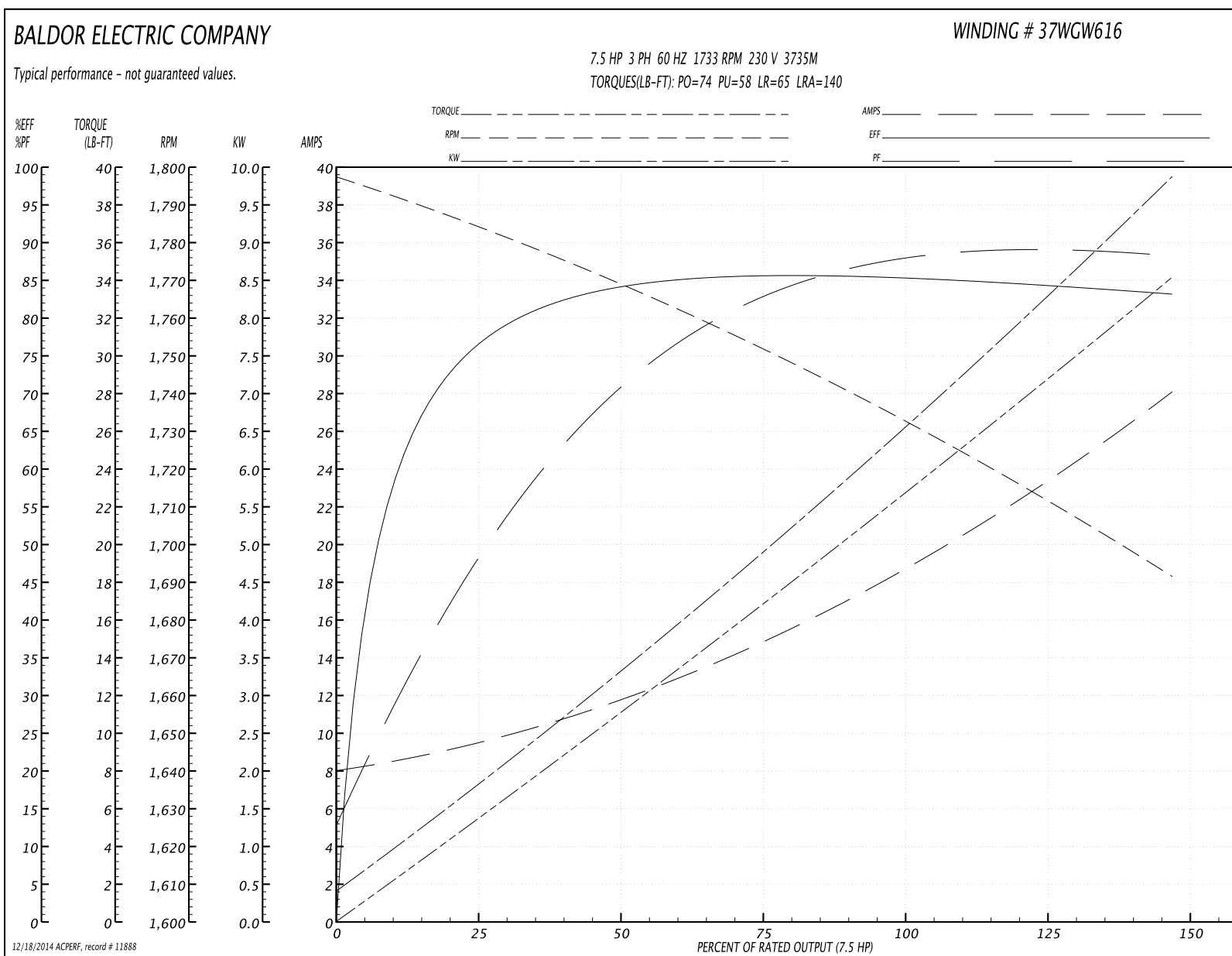
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 37WGW616-R001 | <b>Type:</b> 3735M | <b>Enclosure:</b> OPEN |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |   | 230 V, 60 Hz:<br>High Speed Connection |                |
|-----------------------|--------------|--------------|---|----------------------------------------|----------------|
| Rated Output (HP)     | 7.5/1.9      |              |   | Full Load Torque                       | 22.8 LB-FT     |
| Volts                 | 230          |              |   | Start Configuration                    | direct on line |
| Full Load Amps        | 20/7.5       |              |   | Breakdown Torque                       | 74 LB-FT       |
| R.P.M.                | 1725/850     |              |   | Pull-up Torque                         | 58 LB-FT       |
| Hz                    | 60           | Phase        | 3 | Locked-rotor Torque                    | 65 LB-FT       |
| NEMA Design Code      | B            | KVA Code     | J | Starting Current                       | 140 A          |
| Service Factor (S.F.) | 1.15         |              |   | No-load Current                        | 8.2 A          |
| NEMA Nom. Eff.        | 0            | Power Factor | 0 | Line-line Res. @ 25°C                  | 0.521 Ω        |
| Rating - Duty         | 40C AMB-CONT |              |   | Temp. Rise @ Rated Load                | 59°C           |
| S.F. Amps             |              |              |   | Temp. Rise @ S.F. Load                 | 74°C           |

**Load Characteristics 230 V, 60 Hz, 7.5 HP**

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 50   | 71   | 82   | 87   | 89   | 91   | 0    |
| Efficiency      | 76.3 | 83.9 | 85.6 | 85.5 | 84.6 | 83   | 0    |
| Speed           | 1783 | 1768 | 1751 | 1733 | 1713 | 1691 | 0    |
| Line amperes    | 9.3  | 11.8 | 15.1 | 18.9 | 23.2 | 28   | 21.5 |

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



**AC Induction Motor Performance Data**

Record # 11889 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 37WGW616-R001 | <b>Type:</b> 3735M | <b>Enclosure:</b> OPEN |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |   | 230 V, 60 Hz:<br>Low Speed Connection |                |
|-----------------------|--------------|--------------|---|---------------------------------------|----------------|
| Rated Output (HP)     | 7.5/1.9      |              |   | Full Load Torque                      | 11.5 LB-FT     |
| Volts                 | 230          |              |   | Start Configuration                   | direct on line |
| Full Load Amps        | 20/7.5       |              |   | Breakdown Torque                      | 31 LB-FT       |
| R.P.M.                | 1725/850     |              |   | Pull-up Torque                        | 18 LB-FT       |
| Hz                    | 60           | Phase        | 3 | Locked-rotor Torque                   | 20 LB-FT       |
| NEMA Design Code      | B            | KVA Code     | J | Starting Current                      | 33 A           |
| Service Factor (S.F.) | 1.15         |              |   | No-load Current                       | 5.1 A          |
| NEMA Nom. Eff.        | 0            | Power Factor | 0 | Line-line Res. @ 25°C                 | 2.91 Ω         |
| Rating - Duty         | 40C AMB-CONT |              |   | Temp. Rise @ Rated Load               | 49°C           |
| S.F. Amps             |              |              |   | Temp. Rise @ S.F. Load                | 63°C           |

**Load Characteristics 230 V, 60 Hz, 1.9 HP**

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 27   | 43   | 55   | 64   | 70   | 74   | 0    |
| Efficiency      | 62.1 | 73.4 | 77.2 | 78.3 | 78.1 | 77.1 | 0    |
| Speed           | 892  | 884  | 876  | 868  | 858  | 846  | 0    |
| Line amperes    | 5.3  | 5.7  | 6.3  | 7.1  | 8.1  | 9.3  | 7.9  |

## Performance Graph at 230V, 60Hz, 1.9HP Typical performance - Not guaranteed values

