

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **M1025T**

**7.5/3.3HP,1740/1160RPM,3PH,60HZ,256T,374**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | E    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3740M | Elec. Spec: | 37WGS283 | CD Diagram:   | CD0013     |
| Enclosure:  | OPSB | Mfg Plant:     |       | Mech. Spec: | 37L152   | Layout:       | 37LYL152   |
| Frame:      | 256T | Mounting:      | F1    | Poles:      | 04/06    | Created Date: | 01-22-2007 |
| Base:       | RG   | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 05-22-2014 |
| Leads:      | 6#14 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

|                   |              |                |  |  |      |     |  |   |       |   |
|-------------------|--------------|----------------|--|--|------|-----|--|---|-------|---|
| Nameplate NP1256L |              |                |  |  |      |     |  |   |       |   |
| CAT.NO.           |              |                |  |  |      |     |  |   |       |   |
| SPEC.             | 37L152S283   |                |  |  |      |     |  |   |       |   |
| HP                | 7.5/3.3      |                |  |  |      |     |  |   |       |   |
| VOLTS             | 230          |                |  |  |      |     |  |   |       |   |
| AMP               | 19.4/11.4    |                |  |  |      |     |  |   |       |   |
| RPM               | 1740/1160    |                |  |  |      |     |  |   |       |   |
| FRAME             | 256T         | HZ             |  |  | 60   | PH  |  | 3 |       |   |
| SER.F.            | 1.15         | CODE           |  |  | K    | DES |  | B | CLASS | B |
| NEMA-NOM-EFF      |              | PF             |  |  |      |     |  |   |       |   |
| RATING            | 40C AMB-CONT |                |  |  |      |     |  |   |       |   |
| CC                |              | USABLE AT 208V |  |  |      |     |  |   |       |   |
| DE                | 6309         | ODE            |  |  | 6206 |     |  |   |       |   |
| ENCL              | OPSB         | SN             |  |  |      |     |  |   |       |   |
|                   |              |                |  |  |      |     |  |   |       |   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA152856      | SA 37L152S283                            | 1.000 EA |
| RA141616      | RA 37L152S283                            | 1.000 EA |
| HA6361A01     | LIFTING LUG FOR 37, 39 & 40 FRAME (AUTOP | 2.000 EA |
| 09CB3002SP    | CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30 | 1.000 EA |
| HA6429        | KO BOX ADAPTER REXITE                    | 1.000 EA |
| 19XW2520A16   | SCREW,1/4-20X1 TAPTITE-II OR ROLOC 91    | 2.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01     | 003SS CUP WASHER, FOR #8 SCREW           | 1.000 EA |
| WD1000B17     | T&B CX35TN TERMINAL                      | 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 |
| 37EP3202A01   | STD PULLEY EP MODEL 37 OPEN 309 BRG      | 1.000 EA |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 EA |
| 09CB3501SP    | CONDUIT BOX LID FOR 09CB3001 & 09CB3002  | 1.000 EA |
| 51XW2520A10   | .25-20 X .62, TAPTITE II, HEX WSHR SLTD  | 2.000 EA |
| HW2501G25     | KEY, 3/8 SQ X 2.875                      | 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 |
| HA3104A52     | THRUBOLT, .31-18 X 17.000                | 4.000 EA |
| 37AD2001C01   | BAFFLE PLATE, STAMPED                    | 2.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LB1172A01              | CUSTOM MTR CARTON LABEL LASER PRINTER    | 1.000 EA |
| LC0013                 | CONNECTION LABEL                         | 1.000 EA |
| NP1256L                | ALUM UL CSA CC                           | 1.000 EA |
| 37PA1052               | PALLET PACK GRP, 150 LB MTR 2 X 4 RUNNER | 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 |
| 39-3400     | C FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 23488 - Typical performance - not guaranteed values

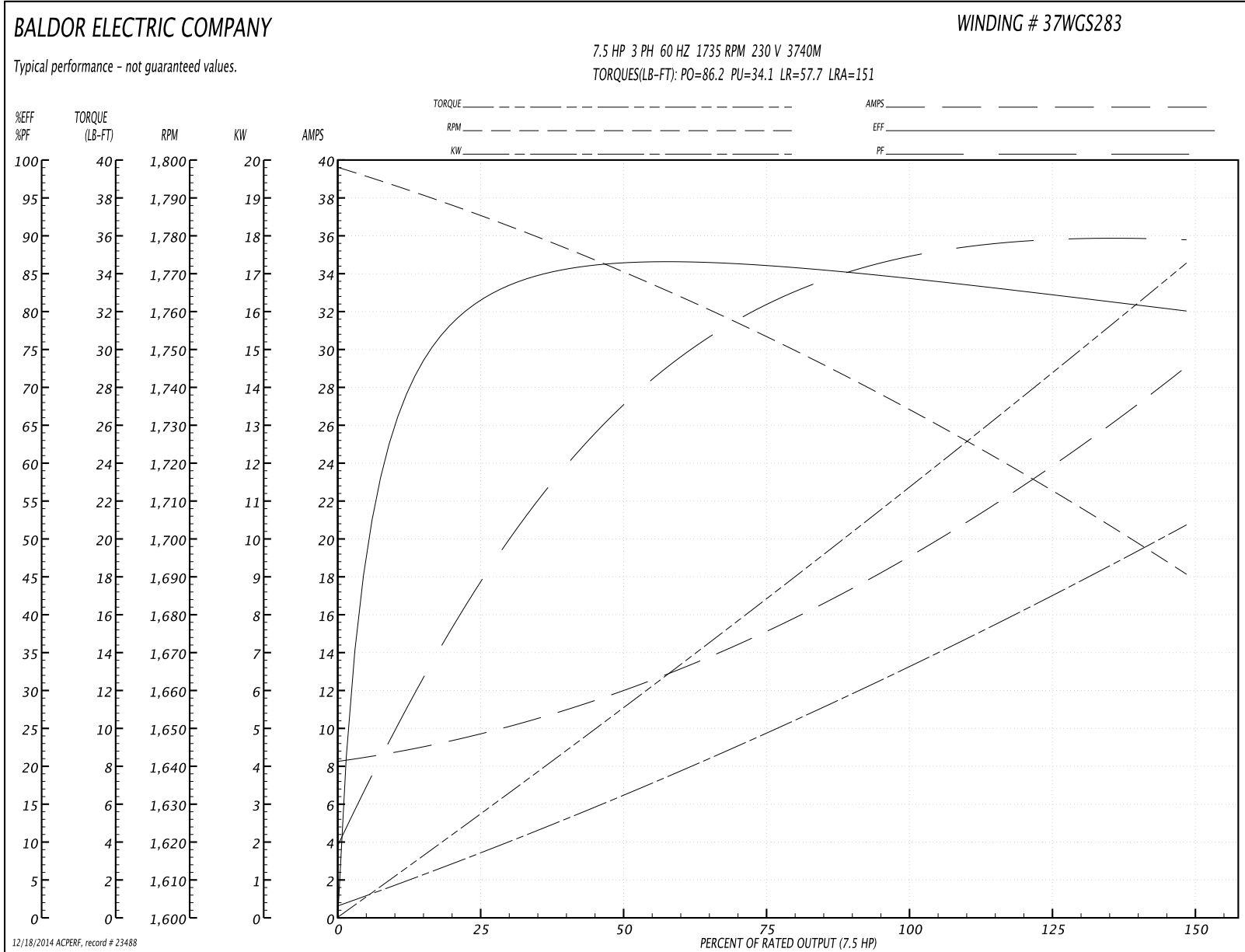
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 37WGS283-R001 | <b>Type:</b> 3740M | <b>Enclosure:</b> OPSB |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |   | 230 V, 60 Hz:<br>High Speed Connection |                |
|-----------------------|--------------|--------------|---|----------------------------------------|----------------|
| Rated Output (HP)     | 7.5/3.3      |              |   | Full Load Torque                       | 22.8 LB-FT     |
| Volts                 | 230          |              |   | Start Configuration                    | direct on line |
| Full Load Amps        | 19.4/11.4    |              |   | Breakdown Torque                       | 86.2 LB-FT     |
| R.P.M.                | 1740/1160    |              |   | Pull-up Torque                         | 34.1 LB-FT     |
| Hz                    | 60           | Phase        | 3 | Locked-rotor Torque                    | 57.7 LB-FT     |
| NEMA Design Code      | B            | KVA Code     | K | Starting Current                       | 151 A          |
| Service Factor (S.F.) | 1.15         |              |   | No-load Current                        | 8.53 A         |
| NEMA Nom. Eff.        | 0            | Power Factor | 0 | Line-line Res. @ 25°C                  | 0.748 Ω        |
| Rating - Duty         | 40C AMB-CONT |              |   | Temp. Rise @ Rated Load                | 59°C           |
| S.F. Amps             |              |              |   | Temp. Rise @ S.F. Load                 | 73°C           |

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

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 45   | 69   | 80   | 86   | 89   | 90   | 88   |
| Efficiency      | 79.5 | 85.4 | 86.4 | 84.7 | 82.5 | 79.9 | 83.4 |
| Speed           | 1785 | 1770 | 1754 | 1735 | 1714 | 1690 | 1722 |
| Line amperes    | 9.29 | 11.8 | 15   | 19.4 | 23.8 | 28.9 | 22   |

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



**AC Induction Motor Performance Data**

Record # 23489 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 37WGS283-R001 | <b>Type:</b> 3740M | <b>Enclosure:</b> OPSB |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |   | 230 V, 60 Hz:<br>Low Speed Connection |                |
|-----------------------|--------------|--------------|---|---------------------------------------|----------------|
| Rated Output (HP)     | 7.5/3.3      |              |   | Full Load Torque                      | 15 LB-FT       |
| Volts                 | 230          |              |   | Start Configuration                   | direct on line |
| Full Load Amps        | 19.4/11.4    |              |   | Breakdown Torque                      | 61.1 LB-FT     |
| R.P.M.                | 1740/1160    |              |   | Pull-up Torque                        | 19.6 LB-FT     |
| Hz                    | 60           | Phase        | 3 | Locked-rotor Torque                   | 29.6 LB-FT     |
| NEMA Design Code      | B            | KVA Code     | K | Starting Current                      | 65.2 A         |
| Service Factor (S.F.) | 1.15         |              |   | No-load Current                       | 7.78 A         |
| NEMA Nom. Eff.        | 0            | Power Factor | 0 | Line-line Res. @ 25°C                 | 1.46 Ω         |
| Rating - Duty         | 40C AMB-CONT |              |   | Temp. Rise @ Rated Load               | 52°C           |
| S.F. Amps             |              |              |   | Temp. Rise @ S.F. Load                | 61°C           |

**Load Characteristics 230 V, 60 Hz, 3.3 HP**

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 28   | 46   | 58   | 67   | 74   | 78   | 71   |
| Efficiency      | 67.3 | 77.7 | 80.8 | 80.9 | 79.6 | 77.5 | 80.1 |
| Speed           | 1190 | 1182 | 1172 | 1162 | 1149 | 1132 | 1154 |
| Line amperes    | 8.02 | 8.76 | 9.86 | 11.4 | 13.1 | 15.4 | 12.4 |

## Performance Graph at 230V, 60Hz, 3.3HP Typical performance - Not guaranteed values

