

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **CEWDM3713T**

**15HP,3500RPM,3PH,60HZ,215TC,3752M,TEFC,F**

| Part Detail |       |                |       |             |          |               |            |
|-------------|-------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | N     | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | 3752M | Elec. Spec: | 37WGR228 | CD Diagram:   | CD0180     |
| Enclosure:  | TEFC  | Mfg Plant:     |       | Mech. Spec: | 37H886   | Layout:       | 37LYH886   |
| Frame:      | 215TC | Mounting:      | F1    | Poles:      | 02       | Created Date: | 03-01-2012 |
| Base:       | RG    | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 06-08-2016 |
| Leads:      | 9#14  |                |       |             |          | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1669L

|              |              |  |      |                |     |     |      |   |       |    |      |
|--------------|--------------|--|------|----------------|-----|-----|------|---|-------|----|------|
| CAT.NO.      | CEWDM3713T   |  |      |                |     |     |      |   |       |    |      |
| SPEC.        | 37H886R228G1 |  |      |                |     |     |      |   |       |    |      |
| HP           | 15           |  |      |                |     |     |      |   |       |    |      |
| VOLTS        | 230/460      |  |      |                |     |     |      |   |       |    |      |
| AMP          | 34/17        |  |      |                |     |     |      |   |       |    |      |
| RPM          | 3500         |  |      |                |     |     |      |   |       |    |      |
| FRAME        | 215TC        |  |      |                | HZ  |     | 60   |   |       | PH | 3    |
| SER.F.       | 1.15         |  | CODE |                | J   | DES |      | A | CLASS |    | F    |
| NEMA-NOM-EFF | 91           |  |      | PF             |     | 89  |      |   |       |    |      |
| RATING       | 40C AMB-CONT |  |      |                |     |     |      |   |       |    |      |
| CC           | 010A         |  |      | USABLE AT 208V |     |     |      |   |       |    | 36.8 |
| DE           | 6307         |  |      |                | ODE |     | 6206 |   |       |    |      |
| ENCL         | TEFC         |  | SN   |                |     |     |      |   |       |    |      |
| BLANK        |              |  |      |                |     |     |      |   |       |    |      |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA240452      | SA 37H886R228G1                          | 1.000 EA |
| RA227370      | RA 37H886R228G1                          | 1.000 EA |
| 37FN3002B01   | EXFN, PLASTIC, 7.50 OD, 1.155 ID         | 1.000 EA |
| HW3200A01     | 3/8-16X3/4 I-BLT WELDED F/S              | 1.000 EA |
| 37CB3005A04W  | CASTING W/.75 NPT@6(MACH WHITE)          | 1.000 EA |
| 37GS1025      | 37 MOLDED GASKET W/LIP, LEAD SEAL        | 1.000 EA |
| 51XW2520A12   | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 EA |
| HA5027A01     | HA4066A01 T-DRAIN X2 BAGGED              | 1.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 37EP3101A33MW | FRONT ENDPLATE, MACHINED W/WHITE EPOXY   | 1.000 EA |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 EA |
| HW5100A06     | W2420-025 WVY WSHR (WB)                  | 1.000 EA |
| 37EP3300A23MW | WHITE EPOXY EP MACH COMPL                | 1.000 EA |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 EA |
| HW4600B51     | SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB | 1.000 EA |
| 10XN2520S30   | 1/4-20 X 1 7/8 HEX HEAD SS               | 4.000 EA |
| HA3104S25     | THRUBOLT-5/16-18X14.75 SS                | 4.000 EA |
| XY3118S12     | 5/16-18 HEX NUT, STAINLESS STEEL         | 4.000 EA |
| 07FH4011      | WASHDOWN IEC FH W/PRIMED                 | 1.000 EA |
| 11XW1032S06   | SCREW, HXWSHR HD SLDTYF 410 SS           | 3.000 EA |
| HW4600B36SP   | V-RING SLINGER 1.188 X 1.690 X .24 VITON | 1.000 EA |
| HW4600B31SP   | V-RING SLINGER 1.438 X 1.758 X .24 VITON | 1.000 EA |
| 37CB4512      | CONDUIT BOX LID FOR WASHDOWN 37 FRAME    | 1.000 EA |
| 37GS1008A02   | 37 GS FOR CB LID - WHITE NEOPRENE        | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 59XN0832S07            | 8/32 X 7/16 HX WS HD SER X               | 4.000 EA |
| HW2502F21              | #303 SS,SQ KEY 5/16 X 2.375              | 1.000 EA |
| HA7000A02              | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 EA |
| MJ5001A27              | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 QT |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| LB1164                 | LABEL,WARNING AND DRAIN                  | 1.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1025Z02              | ACTIVATOR WILKOFAS 060.02HF              | 0.010 GA |
| MG1025W01              | WILKOFAS 781.01, SIGNAL WHITE #9003      | 0.028 GA |
| LC0181                 | CONNECTION LABEL                         | 1.000 EA |
| NP1669L                | SS WD SUPER-E UL CSA-EEV PREM REV MTG    | 1.000 EA |
| 37PA1039               | PALLET PACK GRP, PRINT PK1026A06         | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 53380 - Typical performance - not guaranteed values

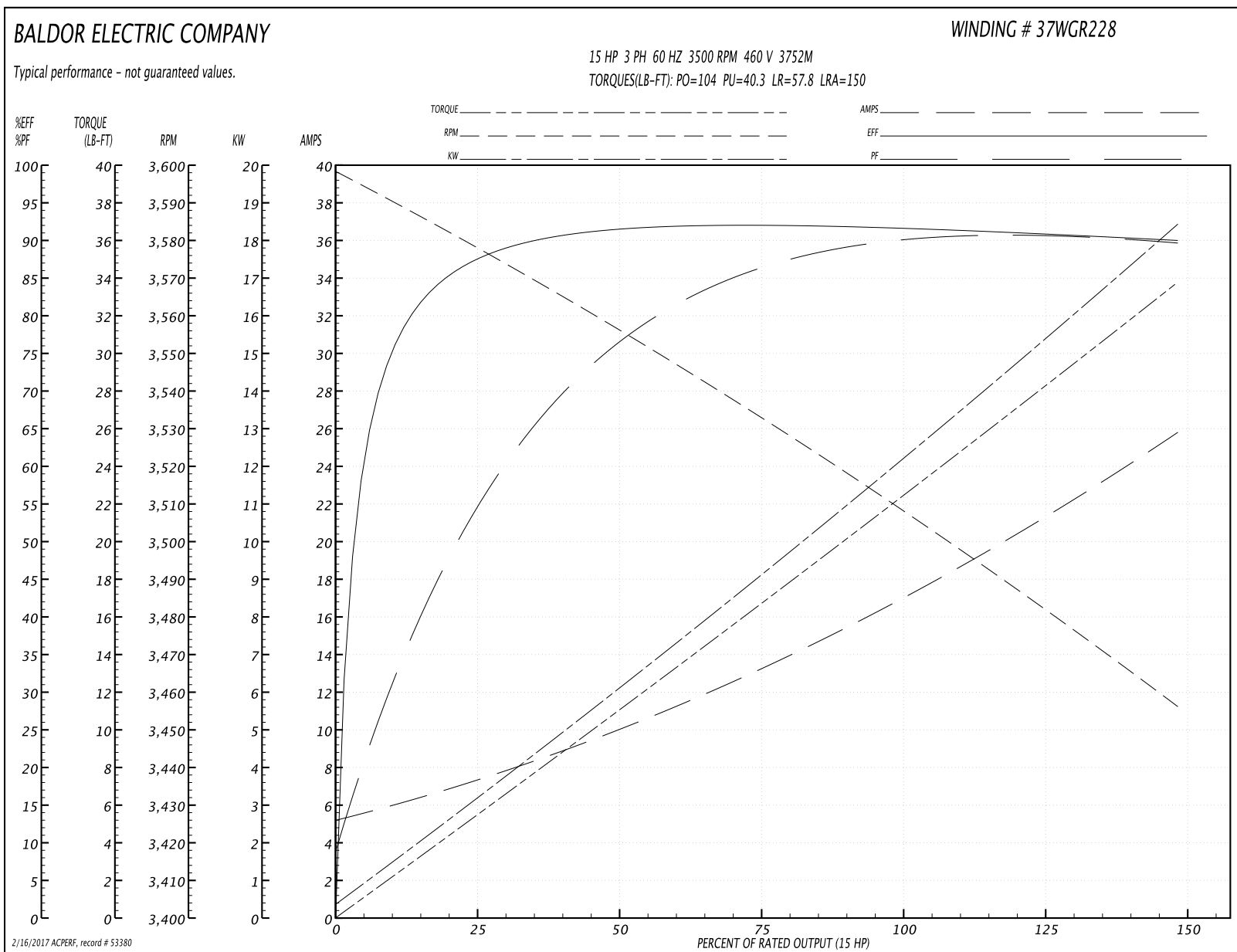
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 37WGR228-R023 | <b>Type:</b> 3752M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------|
| Rated Output (HP)     | 15           |              |    | Full Load Torque                         | 22.1 LB-FT     |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line |
| Full Load Amps        | 34/17        |              |    | Breakdown Torque                         | 104 LB-FT      |
| R.P.M.                | 3500         |              |    | Pull-up Torque                           | 40.3 LB-FT     |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 57.8 LB-FT     |
| NEMA Design Code      | A            | KVA Code     | J  | Starting Current                         | 150 A          |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 5.55 A         |
| NEMA Nom. Eff.        | 91           | Power Factor | 89 | Line-line Res. @ 25°C                    | 0.46531 Ω      |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 67°C           |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 82°C           |

**Load Characteristics 460 V, 60 Hz, 15 HP**

|                 |        |        |        |        |        |        |      |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
| Power Factor    | 55     | 77     | 85     | 88     | 90     | 91     | 89   |
| Efficiency      | 86.8   | 91.5   | 92.2   | 91.8   | 91     | 89.9   | 91.3 |
| Speed           | 3579.2 | 3557.5 | 3534.4 | 3510.2 | 3484.5 | 3455.7 | 3495 |
| Line amperes    | 6.7    | 9.54   | 13.2   | 17     | 21.1   | 25.6   | 19.5 |

## Performance Graph at 460V, 60Hz, 15.0HP Typical performance - Not guaranteed values



**AC Induction Motor Performance Data**

Record # 57899 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 37WGR228-R023 | <b>Type:</b> 3752M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 230 V, 60 Hz:<br>Low Voltage Connection |                          |
|-----------------------|--------------|--------------|----|-----------------------------------------|--------------------------|
| Rated Output (HP)     | 15           |              |    | Full Load Torque                        | 22.1 LB-FT               |
| Volts                 | 230/460      |              |    | Start Configuration                     | direct on line           |
| Full Load Amps        | 34/17        |              |    | Breakdown Torque                        | 104 LB-FT                |
| R.P.M.                | 3500         |              |    | Pull-up Torque                          | 40.3 LB-FT               |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                     | 57.8 LB-FT               |
| NEMA Design Code      | A            | KVA Code     | J  | Starting Current                        | 300 A                    |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                         | 11.1 A                   |
| NEMA Nom. Eff.        | 91           | Power Factor | 89 | Line-line Res. @ 25°C                   | 0.111 Ω                  |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                 | 67°C                     |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                  | 82°C                     |
|                       |              |              |    | Locked-rotor Power Factor               | 30.3                     |
|                       |              |              |    | Rotor inertia                           | 0.474 LB-FT <sup>2</sup> |

**Load Characteristics 230 V, 60 Hz, 15 HP**

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 56   | 77   | 85   | 89   | 90   | 90   | 90   |
| Efficiency      | 86.8 | 91.1 | 92   | 91.8 | 91   | 90   | 91.3 |
| Speed           | 3579 | 3558 | 3534 | 3510 | 3485 | 3456 | 3495 |
| Line amperes    | 13.4 | 19.1 | 26.4 | 34   | 42.2 | 51.2 | 38.9 |

## Performance Graph at 230V, 60Hz, 15.0HP Typical performance - Not guaranteed values

