

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EJMM3218T**

**5HP,1760RPM,3PH,60HZ,184JM,3640M,OPSB,F1**

| Part Detail |       |                |       |             |          |               |            |
|-------------|-------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | J     | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | 3640M | Elec. Spec: | 36WGS270 | CD Diagram:   | CD0005     |
| Enclosure:  | OPSB  | Mfg Plant:     |       | Mech. Spec: | 36G687   | Layout:       | 36LYG687   |
| Frame:      | 184JM | Mounting:      | F1    | Poles:      | 04       | Created Date: | 07-30-2010 |
| Base:       | RG    | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 11-07-2016 |
| Leads:      | 9#16  |                |       |             |          | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1259L

|              |              |  |      |                |    |      |    |   |    |    |   |    |
|--------------|--------------|--|------|----------------|----|------|----|---|----|----|---|----|
| CAT.NO.      | EJMM3218T    |  |      |                |    |      |    |   |    |    |   |    |
| SPEC.        | 36G687S270G1 |  |      |                |    |      |    |   |    |    |   |    |
| HP           | 5            |  |      |                |    |      |    |   |    |    |   |    |
| VOLTS        | 230/460      |  |      |                |    |      |    |   |    |    |   |    |
| AMP          | 13.2/6.6     |  |      |                |    |      |    |   |    |    |   |    |
| RPM          | 1750         |  |      |                |    |      |    |   |    |    |   |    |
| FRAME        | 184JM        |  |      |                | HZ |      | 60 |   |    | PH |   | 3  |
| SER.F.       | 1.15         |  | CODE |                | J  | DES  |    | B | CL |    | F |    |
| NEMA-NOM-EFF | 89.5         |  |      | PF             |    | 80   |    |   |    |    |   |    |
| RATING       | 40C AMB-CONT |  |      |                |    |      |    |   |    |    |   |    |
| CC           | 010A         |  |      | USABLE AT 208V |    |      |    |   |    |    |   | 14 |
| DE           | 6207         |  |      | ODE            |    | 6205 |    |   |    |    |   |    |
| ENCL         | OPSB         |  | SN   |                |    |      |    |   |    |    |   |    |
|              |              |  |      |                |    |      |    |   |    |    |   |    |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA200627    | SA 36G687S270G1                          | 1.000 EA |
| RA187938    | RA 36G687S270G1                          | 1.000 EA |
| 36CB3004    | 36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0 | 1.000 EA |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01   | BRASS CUP WASHER, FOR #8 SCREW           | 1.000 EA |
| 36FE3200A25 | FREP ASSEMBLY FOR ROUTING PURPOSES       | 1.000 EA |
| HA1103A08   | RODENT SCREEN, 36 FRAME, OPEN, FRONT END | 1.000 EA |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 4.000 EA |
| HW1000A10   | #10 FLAT WASHER (SAE)                    | 4.000 EA |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HW4500A17   | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HW5100A05   | WVY WSHR F/205 & 304 BRGS                | 1.000 EA |
| 36PE3405A04 | PUEP 182-4C OPEN 207 BRG W/ TSLV, GRSR   | 1.000 EA |
| HA1102A07   | RODENT SCREEN 36 OPEN FACE               | 2.000 EA |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 4.000 EA |
| HW1000A10   | #10 FLAT WASHER (SAE)                    | 4.000 EA |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HW4500A17   | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| 10XN2520A24 | 1/4-20X 1 1/2 HEX HD X                   | 4.000 EA |
| HW1001A25   | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| 36CB4516    | 36 LIPPED CB LID                         | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HA1005A07   | SLINGER, OD 2.25, ID 1.344, 307 BRG      | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HW2501D13              | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A01              | KEY RETAINER 7/8" DIA SHAFT              | 1.000 EA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| HW3200A01              | 3/8-16X3/4 I-BLT WELDED F/S              | 1.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1000Y03              | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,      | 0.022 GA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| HA3101A28              | THRUBOLT 1/4-20 X 12.500 OHIO ROD        | 4.000 EA |
| 36AD2004A01            | BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA | 2.000 EA |
| LC0005E01              | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| NP1259L                | ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM  | 1.000 EA |
| G7PA1000               | PKG GRP, PRINT PK1034A06                 | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 53360 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 36WGS270-R004 | <b>Type:</b> 3640M | <b>Enclosure:</b> OPSB |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                          |
|-----------------------|--------------|--------------|----|------------------------------------------|--------------------------|
| Rated Output (HP)     | 5            |              |    | Full Load Torque                         | 15.05 LB-FT              |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line           |
| Full Load Amps        | 13.2/6.6     |              |    | Breakdown Torque                         | 44.8 LB-FT               |
| R.P.M.                | 1750         |              |    | Pull-up Torque                           | 25.5 LB-FT               |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 30.1 LB-FT               |
| NEMA Design Code      | B            | KVA Code     | J  | Starting Current                         | 44.8 A                   |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 2.97 A                   |
| NEMA Nom. Eff.        | 89.5         | Power Factor | 80 | Line-line Res. @ 25°C                    | 2.632 Ω                  |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 44°C                     |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 56°C                     |
|                       |              |              |    | Locked-rotor Power Factor                | 41                       |
|                       |              |              |    | Rotor inertia                            | 0.372 LB-FT <sup>2</sup> |

**Load Characteristics 460 V, 60 Hz, 5 HP**

|                 |        |        |        |        |        |        |      |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
| Power Factor    | 42     | 64     | 75     | 80     | 83     | 84     | 82   |
| Efficiency      | 85.4   | 89.7   | 90.2   | 89.5   | 88.2   | 86.4   | 88.7 |
| Speed           | 1789.2 | 1778.5 | 1766.9 | 1753.8 | 1739.5 | 1722.1 | 1745 |
| Line amperes    | 3.33   | 4.14   | 5.26   | 6.59   | 8.05   | 9.68   | 7.47 |

## Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values





