

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EM3311T**

**7.5HP,1770RPM,3PH,60HZ,213T,3733M,OPSB,F**

| Part Detail       |               |                |       |                |          |               |            |    |   |
|-------------------|---------------|----------------|-------|----------------|----------|---------------|------------|----|---|
| Revision:         | F             | Status:        | PRD/A | Change #:      |          | Proprietary:  | No         |    |   |
| Type:             | AC            | Prod. Type:    | 3733M | Elec. Spec:    | 37WGS520 | CD Diagram:   |            |    |   |
| Enclosure:        | OPSB          | Mfg Plant:     |       | Mech. Spec:    | 37F614   | Layout:       |            |    |   |
| Frame:            | 213T          | Mounting:      | F1    | Poles:         | 04       | Created Date: | 04-11-2008 |    |   |
| Base:             | RG            | Rotation:      | R     | Insulation:    | F        | Eff. Date:    | 08-29-2011 |    |   |
| Leads:            | 9#14          | Literature:    |       | Elec. Diagram: |          | Replaced By:  |            |    |   |
| Nameplate NP1259L |               |                |       |                |          |               |            |    |   |
| CAT.NO.           | EM3311T       |                |       |                |          |               |            |    |   |
| SPEC.             | 37F614S520G1  |                |       |                |          |               |            |    |   |
| HP                | 7.5           |                |       |                |          |               |            |    |   |
| VOLTS             | 208-230/460   |                |       |                |          |               |            |    |   |
| AMP               | 20.4-19.4/9.7 |                |       |                |          |               |            |    |   |
| RPM               | 1770          |                |       |                |          |               |            |    |   |
| FRAME             | 213T          | HZ             |       |                | 60       | PH            | 3          |    |   |
| SER.F.            | 1.15          | CODE           |       |                | J        | DES           | A          | CL | F |
| NEMA-NOM-EFF      | 91            | PF             |       |                | 79       |               |            |    |   |
| RATING            | 40C AMB-CONT  |                |       |                |          |               |            |    |   |
| CC                | 010A          | USABLE AT 208V |       |                |          |               |            |    |   |
| DE                | 6307          | ODE            |       |                | 6206     |               |            |    |   |
| ENCL              | OPSB          | SN             |       |                |          |               |            |    |   |
|                   |               |                |       |                |          |               |            |    |   |

| Parts List     |                                          |          |
|----------------|------------------------------------------|----------|
| Part Number    | Description                              | Quantity |
| SA170011       | SA 37F614S520G1                          | 1.000 EA |
| RA158267       | RA 37F614S520G1                          | 1.000 EA |
| S/P107-000-001 | SUPER E PROC'S-FS & WS PLTS-POLYREX EM G | 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 |
| 51XW2520A10    | .25-20 X .62, 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 213-5T                 | 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 |
| LB1115         | LABEL,LIFTING DEVICE                     | 1.000 EA |
| MJ1000A75      | GREASE, POLYREX EM EXXON                 | 0.050 LB |
| HA3104A39      | THRUBOLT-5/16-18 X 12.250                | 4.000 EA |
| 37AD2001A01    | BAFFLE PLATE, STAMPED                    | 2.000 EA |
| LC0005E01      | CONN.DIA./WARNING LABEL (LC0005/LB1119)  | 1.000 EA |
| MG1000Y03      | WILKO 689.710 GOLD PAINT SUPER E         | 0.028 GA |

**Parts List (continued)**

| <b>Part Number</b> | <b>Description</b>                       | <b>Quantity</b> |
|--------------------|------------------------------------------|-----------------|
| LB1125C02          | SUPER-E (STOCK CTN LABEL SUPER-E WITH FL | 1.000 EA        |
| LB1357             | ENERGY GUIDE LABEL (BOX LABEL)           | 1.000 SH        |
| NP1259L            | SUPER E, ALUM, UL CSA CC, W/O THERMAL,   | 1.000 EA        |
| 36PA1001           | PACKAGING GROUP                          | 1.000 EA        |
| LB1350             | BAR CODE LABEL FOR YORK                  | 1.000 EA        |

**Accessories**

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

**Performance Data at 460V, 60Hz, 7.5HP (Typical performance - Not guaranteed values)**
**General Characteristics**

|                                 |                                  |                             |            |
|---------------------------------|----------------------------------|-----------------------------|------------|
| <b>Full Load Torque:</b>        | 22.1 LB-FT                       | <b>Start Configuration:</b> | DOL        |
| <b>No-Load Current:</b>         | 4.67 Amps                        | <b>Break-Down Torque:</b>   | 67.8 LB-FT |
| <b>Line-line Res. @ 25°C.:</b>  | 1.5572 Ohms A Ph / 0.0 Ohms B Ph | <b>Pull-Up Torque:</b>      | 31.6 LB-FT |
| <b>Temp. Rise @ Rated Load:</b> | 35 C                             | <b>Locked-Rotor Torque:</b> | 40.0 LB-FT |
| <b>Temp. Rise @ S.F. Load:</b>  | 43 C                             | <b>Starting Current:</b>    | 68.2 Amps  |

**Load Characteristics**

| % of Rated Load      | 25     | 50     | 75     | 100    | 125    | 150    | S.F.   |
|----------------------|--------|--------|--------|--------|--------|--------|--------|
| <b>Power Factor:</b> | 40.0   | 62.0   | 73.0   | 79.0   | 82.0   | 83.0   | 81.0   |
| <b>Efficiency:</b>   | 85.6   | 90.5   | 91.4   | 91.2   | 90.4   | 89.1   | 90.7   |
| <b>Speed:</b>        | 1792.9 | 1786.8 | 1778.7 | 1771.9 | 1762.9 | 1751.6 | 1766.0 |
| <b>Line Amperes:</b> | 5.16   | 6.29   | 7.88   | 9.72   | 11.8   | 14.2   | 11.0   |

## Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values





