

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EHM2523T**

**15HP,1765RPM,3PH,60HZ,254T,3938M,OPSB,F1**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | P    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3938M | Elec. Spec: | 39WGW916 | CD Diagram:   | CD0180     |
| Enclosure:  | OPSB | Mfg Plant:     |       | Mech. Spec: | 39R006   | Layout:       | 39LYR006   |
| Frame:      | 254T | Mounting:      | F1    | Poles:      | 04       | Created Date: | 06-19-2006 |
| Base:       | RG   | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 06-05-2014 |
| Leads:      | 9#12 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

|                        |              |                |  |  |      |      |  |   |    |   |
|------------------------|--------------|----------------|--|--|------|------|--|---|----|---|
| Nameplate NP2094E06B03 |              |                |  |  |      |      |  |   |    |   |
| CAT.NO.                | EHM2523T     |                |  |  |      |      |  |   |    |   |
| SPEC.                  | 39R006W916G1 |                |  |  |      |      |  |   |    |   |
| HP                     | 15           |                |  |  |      |      |  |   |    |   |
| VOLTS                  | 230/460      |                |  |  |      |      |  |   |    |   |
| AMPS                   | 35.4/17.7    |                |  |  |      |      |  |   |    |   |
| RPM                    | 1765         |                |  |  |      |      |  |   |    |   |
| FRAME                  | 254T         | HZ             |  |  | 60   | PH   |  | 3 |    |   |
| SER.F.                 | 1.15         | CODE           |  |  | G    | DES  |  | B | CL | F |
| NEMA-NOM-EFF           | 93           | PF             |  |  | 86   |      |  |   |    |   |
| RATING                 | 40C AMB-CONT |                |  |  |      |      |  |   |    |   |
| CC                     | 010A         | USABLE AT 208V |  |  | 37.4 |      |  |   |    |   |
| DE                     | 6309         | ODE            |  |  | 6208 |      |  |   |    |   |
| AUTO                   |              | MANUAL         |  |  |      | NONE |  |   |    |   |
| ENCL                   | OPSB         | SN             |  |  |      |      |  |   |    |   |
| BLANK                  |              |                |  |  |      |      |  |   |    |   |

| Parts List     |                                          |          |
|----------------|------------------------------------------|----------|
| Part Number    | Description                              | Quantity |
| SA144444       | SA 39R006W916G1                          | 1.000 EA |
| RA133635       | RA 39R006W916G1                          | 1.000 EA |
| S/P107-000-006 | SUPER-E(284 FR. & UP)-ZK PLANT,POLYREX E | 1.000 EA |
| HA6361A01      | LIFTING LUG FOR 37, 39 & 40 FRAME (AUTOP | 2.000 EA |
| 39CB4000A01    | CONDUIT BOX 39, STAMPED                  | 1.000 EA |
| 19XW2520A08    | SCREW,1/4-20X1/2 TAPTITE-II OR ROLOC 91  | 2.000 EA |
| HW1001A25      | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA |
| WD1000B16      | T&B CX70TN TERMINAL                      | 1.000 EA |
| 39EP3200A01SP  | FR/PU ENDPLATE, MACH                     | 1.000 EA |
| HW4500A20      | 1/8NPT SL PIPE PLUG                      | 2.000 EA |
| HW5100A08      | W3118-035 WVY WSHR (WB)                  | 1.000 EA |
| 39EP3201A23    | PU ENDPLATE, MACH W/AEGIS SH RING MTG    | 1.000 EA |
| HW4500A20      | 1/8NPT SL PIPE PLUG                      | 2.000 EA |
| 84XN0540J08    | 5-40 X 1/2" SHCS, BLACK OXIDE            | 2.000 EA |
| XY3816A12      | 3/8-16 FINISHED NUT                      | 8.000 EA |
| 39CB4500A01    | CONDUIT BOX LID 39, STAMPED, AUTOPHORETI | 1.000 EA |
| 51XF1032A08    | 10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED | 2.000 EA |
| HW2501G25      | KEY, 3/8 SQ X 2.875                      | 1.000 EA |
| 39AD2002A01    | BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS  | 1.000 EA |
| MJ1000A75      | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.030 LB |
| 39AD2002A01    | BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS  | 1.000 EA |
| HA3154A09      | TB STUD 3/8-16 X 16.25                   | 4.000 EA |
| MG1000G27      | MED CHARCOAL METALLIC GREY               | 0.050 GA |
| LB1125C02      | SUPER-E (STOCK CTN LABEL SUPER-E WITH FL | 4.000 EA |

| Parts List (continued) |                                        |          |
|------------------------|----------------------------------------|----------|
| Part Number            | Description                            | Quantity |
| LC0181                 | CONNECTION LABEL                       | 1.000 EA |
| NP2094E06B03           | NP LABEL W/BARCODE (PREM EFF HVAC MTR) | 1.000 EA |
| 39PA1000               | PACKAGING GROUP 39 PRINT               | 1.000 EA |
| LB1506                 | LABEL "AMERICAN MADE" 1.50 X 1.00      | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 31707 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 39WGW916-R007 | <b>Type:</b> 3938M | <b>Enclosure:</b> OPSB |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |                |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                      |
|-----------------------|----------------|--------------|----|------------------------------------------|----------------------|
| Rated Output (HP)     | 15             |              |    | Full Load Torque                         | 44.6 LB-FT           |
| Volts                 | 208-230/460    |              |    | Start Configuration                      | direct on line       |
| Full Load Amps        | 37.4-35.4/17.7 |              |    | Breakdown Torque                         | 171 LB-FT            |
| R.P.M.                | 1765           |              |    | Pull-up Torque                           | 78.7 LB-FT           |
| Hz                    | 60             | Phase        | 3  | Locked-rotor Torque                      | 99.4 LB-FT           |
| NEMA Design Code      | B              | KVA Code     | G  | Starting Current                         | 118 A                |
| Service Factor (S.F.) | 1.15           |              |    | No-load Current                          | 7.27 A               |
| NEMA Nom. Eff.        | 93             | Power Factor | 86 | Line-line Res. @ 25°C                    | 0.622 Ω              |
| Rating - Duty         | 40C AMB-CONT   |              |    | Temp. Rise @ Rated Load                  | 22°C                 |
| S.F. Amps             |                |              |    | Temp. Rise @ S.F. Load                   | 29°C                 |
|                       |                |              |    | Rotor inertia                            | 1.66 LF <sup>2</sup> |

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

|                 |      |       |       |       |       |       |       |
|-----------------|------|-------|-------|-------|-------|-------|-------|
| % of Rated Load | 25   | 50    | 75    | 100   | 125   | 150   | S.F.  |
| Power Factor    | 47   | 70    | 81    | 86    | 88    | 89    | 87    |
| Efficiency      | 90.1 | 93.3  | 93.5  | 93.1  | 92.2  | 91    | 92.6  |
| Speed           | 1792 | 1784  | 1775  | 1765  | 1754  | 1742  | 1759  |
| Line amperes    | 8.27 | 10.72 | 13.99 | 17.67 | 21.74 | 26.21 | 20.11 |

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







