

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EHM3157T**

**2HP,1750RPM,3PH,60HZ,145T,3526M,OPSB,F1**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | Q    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3526M | Elec. Spec: | 35WGM496 | CD Diagram:   | CD0005     |
| Enclosure:  | OPSB | Mfg Plant:     |       | Mech. Spec: | 35VV807  | Layout:       | 35LYVV807  |
| Frame:      | 145T | Mounting:      | F1    | Poles:      | 04       | Created Date: | 11-22-2010 |
| Base:       | RG   | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 12-20-2016 |
| Leads:      | 9#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP2094C06B03

|              |               |  |        |                |     |    |      |  |    |  |    |     |   |
|--------------|---------------|--|--------|----------------|-----|----|------|--|----|--|----|-----|---|
| CAT.NO.      | EHM3157T      |  |        |                |     |    |      |  |    |  |    |     |   |
| SPEC.        | 35VV807M496G1 |  |        |                |     |    |      |  |    |  |    |     |   |
| HP           | 2             |  |        |                |     |    |      |  |    |  |    |     |   |
| VOLTS        | 230/460       |  |        |                |     |    |      |  |    |  |    |     |   |
| AMPS         | 5.8/2.9       |  |        |                |     |    |      |  |    |  |    |     |   |
| RPM          | 1750          |  |        |                |     |    |      |  |    |  |    |     |   |
| FRAME        | 145T          |  |        |                | HZ  |    |      |  | 60 |  | PH | 3   |   |
| SER.F.       | 1.15          |  | CODE   |                | K   |    | DES  |  | B  |  | CL | F   |   |
| NEMA-NOM-EFF | 86.5          |  |        | PF             |     | 76 |      |  |    |  |    |     |   |
| RATING       | 40C AMB-CONT  |  |        |                |     |    |      |  |    |  |    |     |   |
| CC           | 010A          |  |        | USABLE AT 208V |     |    |      |  |    |  |    | 5.8 |   |
| DE           | 6205          |  |        |                | ODE |    | 6203 |  |    |  |    |     |   |
| AUTO         | N             |  | MANUAL |                | N   |    | NONE |  |    |  |    |     | Y |
| ENCL         | OPSB          |  |        | SN             |     |    |      |  |    |  |    |     |   |
| BLANK        |               |  |        |                |     |    |      |  |    |  |    |     |   |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA212052    | SA 35VV807M496G1                         | 1.000 EA |
| RA199282    | RA 35VV807M496G1                         | 1.000 EA |
| NS2512A01   | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 35CB4004A17 | SHEET METAL KOBX 35 (STAMPED) 35CB4004 L | 1.000 EA |
| 51XT1032A04 | 10-32X1/4 HX WA SL SR TYT (F/S)          | 4.000 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 |
| 35EP3201A48 | PRL FR ENDPLATE-OPEN, GREASER            | 1.000 EA |
| HW4500A19   | 1/4-28X1/4 SLOTTED PLUG F/S              | 1.000 EA |
| HW4500A20   | 1/8NPT SL PIPE PLUG                      | 1.000 EA |
| HW5100A03SP | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35EP3200A33 | PU ENDPLATE, MACH                        | 1.000 EA |
| 91XN0540J08 | SCREW, 5-40 X 1/2", FHC, AS              | 2.000 EA |
| HW4500A19   | 1/4-28X1/4 SLOTTED PLUG F/S              | 1.000 EA |
| HW4500A20   | 1/8NPT SL PIPE PLUG                      | 1.000 EA |
| XY1032A02   | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 EA |
| 35CB4509    | BOX LID MODEL 35 FOR 35CB4004-GALV & PHO | 1.000 EA |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB                 | 4.000 EA |
| HW2501D13   | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A01   | KEY RETAINER 7/8" DIA SHAFT              | 1.000 EA |
| HA6362ZP    | LIFTING LUG FOR 36 FRAME MOTORS.         | 2.000 EA |
| LB1115N     | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| MJ1000A02   | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1000G27   | MED CHARCOAL METALLIC GREY 400-0096      | 0.017 GA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HA3100A71              | THRUBOLT 10-32 X 9.500                   | 4.000 EA |
| 35AD2005A01            | BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F. | 2.000 EA |
| LC0005                 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 EA |
| NP2094C06B03           | NP LABEL W/BARCODE (FOR HVAC MOTOR)      | 1.000 EA |
| 35PA1066               | PKG GRP, PRINT      PK1008A06            | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 33882 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGM496-R001 | <b>Type:</b> 3526M | <b>Enclosure:</b> OPSB |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------|
| Rated Output (HP)     | 2            |              |    | Full Load Torque                         | 6.02 LB-FT     |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line |
| Full Load Amps        | 5.8/2.9      |              |    | Breakdown Torque                         | 22.6 LB-FT     |
| R.P.M.                | 1750         |              |    | Pull-up Torque                           | 11.27 LB-FT    |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 15.4 LB-FT     |
| NEMA Design Code      | B            | KVA Code     | K  | Starting Current                         | 21.65 A        |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 1.63 A         |
| NEMA Nom. Eff.        | 86.5         | Power Factor | 76 | Line-line Res. @ 25°C                    | 8.22 Ω         |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 38°C           |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 46°C           |
|                       |              |              |    | Locked-rotor Power Factor                | 52.4           |
|                       |              |              |    | Rotor inertia                            | 0.154 LB-FT2   |

**Load Characteristics 460 V, 60 Hz, 2 HP**

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 35   | 56   | 69   | 76   | 81   | 84   | 76   |
| Efficiency      | 77   | 84.7 | 86.8 | 86.6 | 85.8 | 84.3 | 86.6 |
| Speed           | 1789 | 1779 | 1768 | 1756 | 1742 | 1727 | 1749 |
| Line amperes    | 1.75 | 2.01 | 2.37 | 2.85 | 3.37 | 3.96 | 3.25 |

## Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values







