

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EFM2394T**

**15HP,3520RPM,3PH,60HZ,254T,0930M,TEFC,F2**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | H    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 0930M | Elec. Spec: | 09WGZ602 | CD Diagram:   | CD0180     |
| Enclosure:  | TEFC | Mfg Plant:     |       | Mech. Spec: | 09C106   | Layout:       | 09LYC106   |
| Frame:      | 254T | Mounting:      | F2    | Poles:      | 02       | Created Date: | 04-19-2013 |
| Base:       | RG   | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 11-11-2016 |
| Leads:      | 9#12 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP3441L

|                            |                   |  |  |      |    |     |      |   |  |    |   |
|----------------------------|-------------------|--|--|------|----|-----|------|---|--|----|---|
| CAT.NO.                    | EFM2394T          |  |  |      |    |     |      |   |  |    |   |
| SPEC.                      | 09C106Z602G1      |  |  |      |    |     |      |   |  |    |   |
| HP                         | 15                |  |  |      |    |     |      |   |  |    |   |
| VOLTS                      | 230/460           |  |  |      |    |     |      |   |  |    |   |
| AMP                        | 35/17.5           |  |  |      |    |     |      |   |  |    |   |
| RPM                        | 3520              |  |  |      |    |     |      |   |  |    |   |
| FRAME                      | 254T              |  |  |      |    | HZ  | 60   |   |  | PH | 3 |
| SER.F.                     | 1.15              |  |  | CODE | G  |     | DES  | B |  | CL | F |
| NEMA-NOM-EFF               | 91                |  |  | PF   | 87 |     |      |   |  |    |   |
| RATING                     | 40C AMB-CONT      |  |  |      |    |     |      |   |  |    |   |
| CC                         | 010A              |  |  |      |    |     |      |   |  |    |   |
|                            | USABLE AT 208V 38 |  |  |      |    |     |      |   |  |    |   |
| DE                         | 6309              |  |  |      |    | ODE | 6208 |   |  |    |   |
| ENCL                       | TEFC              |  |  | SN   |    |     |      |   |  |    |   |
| VPWM INVERTER READY        |                   |  |  |      |    |     |      |   |  |    |   |
| CT6-60H(10:1)VT3-60H(20:1) |                   |  |  |      |    |     |      |   |  |    |   |
|                            |                   |  |  |      |    |     |      |   |  |    |   |

| Parts List     |                                          |          |
|----------------|------------------------------------------|----------|
| Part Number    | Description                              | Quantity |
| SA262090       | SA 09C106Z602G1                          | 1.000 EA |
| RA248823       | RA 09C106Z602G1                          | 1.000 EA |
| 37FN3002C02    | EXFN, PLASTIC, 6.00 OD, 1.500 ID         | 1.000 EA |
| S/P107-000-005 | SUPER-E PROC'S(254/6 FR.) ZK PLANT - POL | 1.000 EA |
| HW1002A63      | WASHER, 5/8 HI-COLLAR SPRCKWASHER        | 1.000 EA |
| 09CB3002       | CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30 | 1.000 EA |
| 09GS1000       | GASKET-CONDUIT BOX, 1/16 THICK LEXIDE    | 1.000 EA |
| 10XN2520K12    | 1/4-20 X.75 GRD 5                        | 2.000 EA |
| HW1001A25      | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA |
| 09PE1101A136   | PUEP ASSEMBLY, 09EP1101A136              | 1.000 EA |
| HW4600B44      | V-RING SLINGER 1.500 X 1.810 X .28 VITON | 1.000 EA |
| WD1000B17      | T&B CX35TN TERMINAL                      | 1.000 EA |
| 11XW1032G06    | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 09FE1100A194   | FREP 09EP1100A194 FOR PLANT ROUTING      | 1.000 EA |
| XY3816A12      | 3/8-16 FINISHED NUT                      | 4.000 EA |
| HW1001A38      | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| HW5100A08      | W3118-035 WVY WSHR (WB)                  | 1.000 EA |
| 10XN2520K28    | 1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P | 2.000 EA |
| HW1001A25      | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA |
| 10XN2520K36    | 1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P | 4.000 EA |
| HW1001A25      | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| HA3113A02      | THRUBOLT 3/8-16 X 16.750                 | 4.000 EA |
| HW1001A38      | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| 09FH4000SP     | FAN COVER, STAMPED                       | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HA2081A05              | SPACER TUBE, 309 FAN HSG, 2.00 LONG      | 4.000 EA |
| XY3816A12              | 3/8-16 FINISHED NUT                      | 4.000 EA |
| HW1001A38              | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 EA |
| 09CB3501               | CONDUIT BOX LID FOR 09CB3001 & 09CB3002  | 1.000 EA |
| 09GS1013               | 09 GS FOR 09CB3501 LID - LEXIDE          | 1.000 EA |
| 51XW2520A12            | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 EA |
| HW2501G25              | KEY, 3/8 SQ X 2.875                      | 1.000 EA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |
| HA4051A00              | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| HW4500A03              | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |
| HW4500A17              | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4066A01              | PUSH IN T-DRAIN FITTING (BLACK)          | 1.000 EA |
| HW4500A17              | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4066A01              | PUSH IN T-DRAIN FITTING (BLACK)          | 1.000 EA |
| HW4500A05              | 1669B ALEM/UNIV860 GR FTG X              | 1.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.080 LB |
| HA4051A00              | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| HW2500A25              | WOODRUFF KEY USA #1008 #BLOW CARBON STEE | 1.000 EA |
| 51XB1214A20            | 12-14X1.25 HXWSSLD SERTYB                | 1.000 EA |
| MG1000Y03              | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,      | 0.050 GA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LC0181                 | CONNECTION LABEL                         | 1.000 EA |

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|          |                                     |          |
|----------|-------------------------------------|----------|
| NP3441L  | ALUM SUPER-E VPWM INVERTER READY UL | 1.000 EA |
| 09PA1000 | PACKAGING GROUP COMBINED PRINT      | 1.000 EA |

## AC Induction Motor Performance Data

Record # 31412 - Typical performance - not guaranteed values

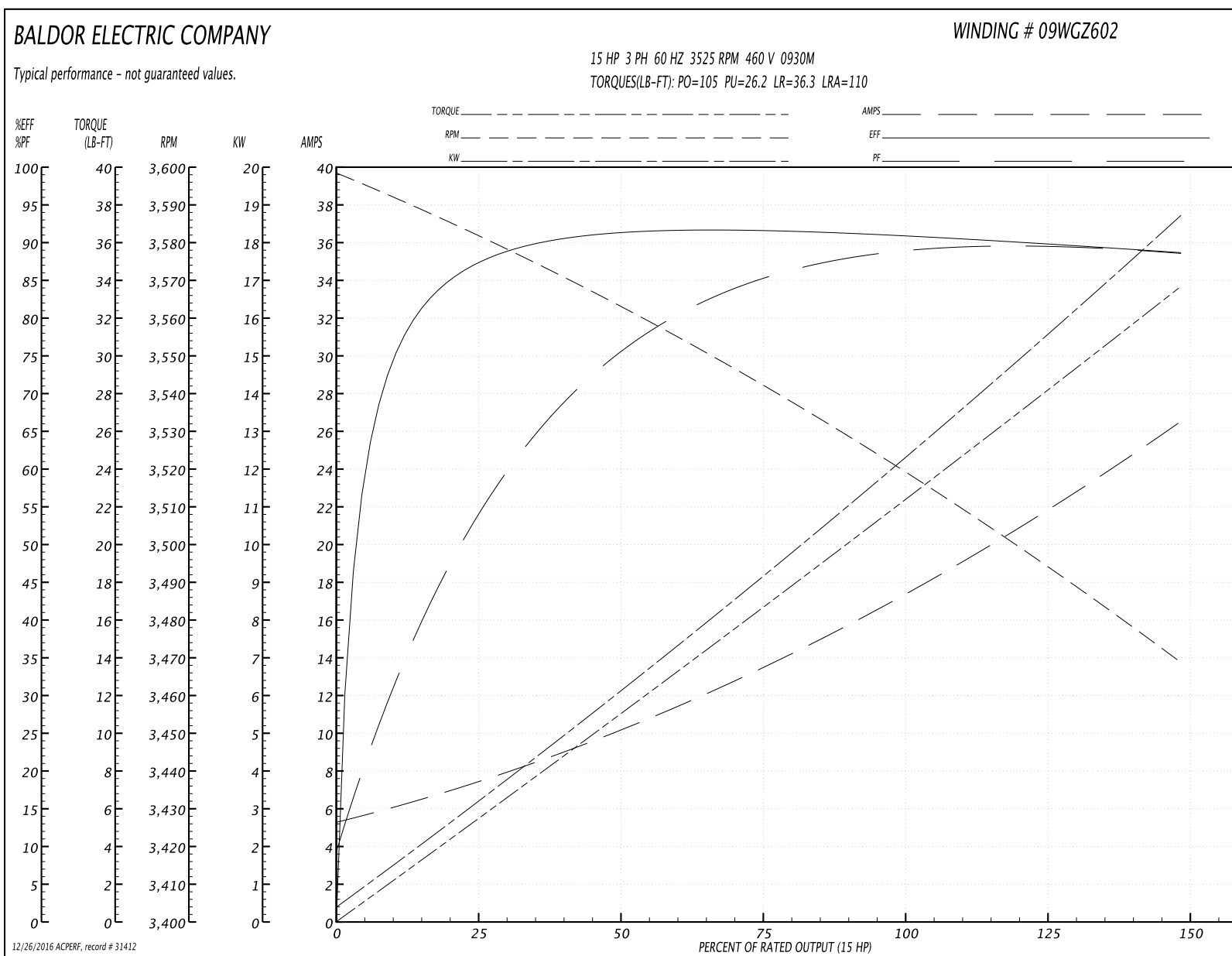
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 09WGZ602-R001 | <b>Type:</b> 0930M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

| 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        | 35/17.5      |              |    | Breakdown Torque                         | 105 LB-FT                |
| R.P.M.                | 3525         |              |    | Pull-up Torque                           | 26.2 LB-FT               |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 36.3 LB-FT               |
| NEMA Design Code      | B            | KVA Code     | G  | Starting Current                         | 110 A                    |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 5.58 A                   |
| NEMA Nom. Eff.        | 91           | Power Factor | 87 | Line-line Res. @ 25°C                    | 0.68654 Ω                |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 63°C                     |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 78°C                     |
|                       |              |              |    | Locked-rotor Power Factor                | 30                       |
|                       |              |              |    | Rotor inertia                            | 0.766 LB-FT <sup>2</sup> |

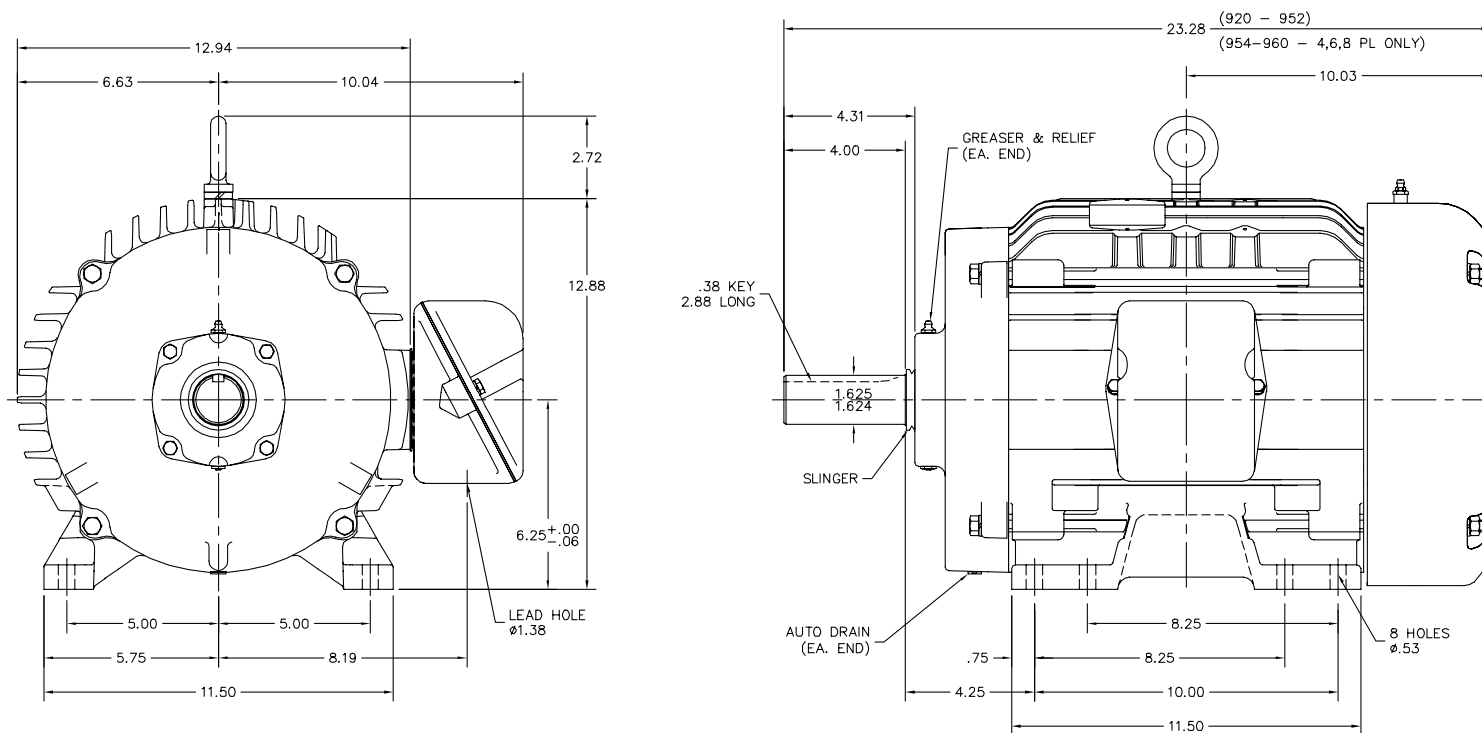
## Load Characteristics 460 V, 60 Hz, 15 HP

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 55     | 77     | 85     | 87     | 89     | 89     | 88   |
| Efficiency      | 86.4   | 91     | 91.6   | 91     | 90     | 88.6   | 90.4 |
| Speed           | 3582.7 | 3563.6 | 3542.7 | 3520.9 | 3495.8 | 3468.3 | 3506 |
| Line amperes    | 6.93   | 9.78   | 13.5   | 17.5   | 21.6   | 26.4   | 20   |

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



09LYC106



09LYC106

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

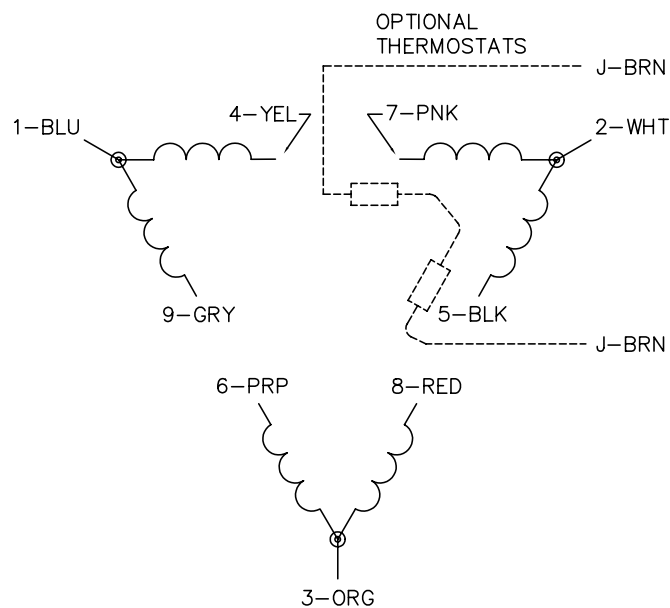
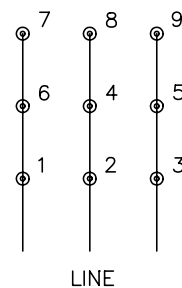
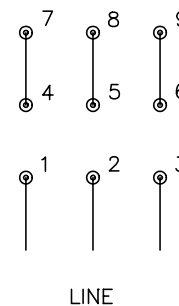
|                           |                              |                   |
|---------------------------|------------------------------|-------------------|
| REV. DESC: REMOVE LOCKNUT | VERSION: 07                  | TDR: 000000952626 |
| REV. LTR: M               | REvised: 03:06:31 11/09/2015 | BY: ENMARSO       |
| FILE: \AAA\00044\870      |                              |                   |
| MTL: -                    |                              |                   |

**BALDOR**

HORZ TEFC 254-6T F2

SH 1 of 1

CD0180

LOW VOLTAGE  
(2D)HIGH VOLTAGE  
(1D)

## NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C BY: JLP

REVISED: 01/21/99 2:28

TDR: 0171435

081000

FILE: AAA00005148

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS, DELTA CONNECTION

CD0180