

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EFM2515T**

**20HP, 1765RPM, 3PH, 60HZ, 256T, 3944M, OPSB, F2**

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| Part Detail       |              |                |       |                |          |               |            |    |   |
|-------------------|--------------|----------------|-------|----------------|----------|---------------|------------|----|---|
| Revision:         | T            | Status:        | PRD/A | Change #:      |          | Proprietary:  | No         |    |   |
| Type:             | AC           | Prod. Type:    | 3944M | Elec. Spec:    | 39WGW915 | CD Diagram:   |            |    |   |
| Enclosure:        | OPSB         | Mfg Plant:     |       | Mech. Spec:    | 39K70    | Layout:       |            |    |   |
| Frame:            | 256T         | Mounting:      | F2    | Poles:         | 04       | Created Date: |            |    |   |
| Base:             | RG           | Rotation:      | R     | Insulation:    | F        | Eff. Date:    | 03-01-2012 |    |   |
| Leads:            | 9#10         | Literature:    |       | Elec. Diagram: |          | Replaced By:  |            |    |   |
| Nameplate NP1259L |              |                |       |                |          |               |            |    |   |
| CAT.NO.           | EFM2515T     |                |       |                |          |               |            |    |   |
| SPEC.             | 39K070W915G1 |                |       |                |          |               |            |    |   |
| HP                | 20           |                |       |                |          |               |            |    |   |
| VOLTS             | 230/460      |                |       |                |          |               |            |    |   |
| AMP               | 47/23.5      |                |       |                |          |               |            |    |   |
| RPM               | 1765         |                |       |                |          |               |            |    |   |
| FRAME             | 256T         | HZ             | 60    |                |          | PH            | 3          |    |   |
| SER.F.            | 1.15         | CODE           | H     |                |          | DES           | B          | CL | F |
| NEMA-NOM-EFF      | 93           | PF             | 86    |                |          |               |            |    |   |
| RATING            | 40C AMB-CONT |                |       |                |          |               |            |    |   |
| CC                | 010A         | USABLE AT 208V | 49.4  |                |          |               |            |    |   |
| DE                | 6309         | ODE            | 6208  |                |          |               |            |    |   |
| ENCL              | OPSB         | SN             |       |                |          |               |            |    |   |
|                   |              |                |       |                |          |               |            |    |   |

| Parts List     |  |          |
|----------------|--|----------|
| Part Number    | Description                              | Quantity |
| SA039372       | SA 39K070W915G1                          | 1.000 EA |
| RA035335       | RA 39K070W915G1                          | 1.000 EA |
| S/P107-000-005 | SUPER-E PROC'S(254/6 FR.) ZK PLANT - POL | 1.000 EA |
| HA6361A01      | LIFTING LUG FOR 37, 39 & 40 FRAME (AUTOP | 2.000 EA |
| HA6016         | ADAPTER, CAST CONDUIT BOX                | 1.000 EA |
| 09CB3002SP     | CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30 | 1.000 EA |
| 51XW2520A12    | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 EA |
| HW1001A25      | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA |
| WD1000B17      | KPA-8C BURNDY TERMINAL                   | 1.000 EA |
| 51XW1032A06    | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 1.000 EA |
| 39EP3200A01SP  | FR/PU ENDPLATE, MACH                     | 1.000 EA |
| HW5100A08      | W3118-035 WVY WSHR (WB)                  | 1.000 EA |
| 39EP3201A13    | PU ENDPLATE, MACH                        | 1.000 EA |
| XY3816A12      | 3/8-16 FINISHED NUT                      | 8.000 EA |
| 09CB3501SP     | CONDUIT BOX LID FOR 09CB3001 & 09CB3002  | 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 |
| LB1115         | LABEL,LIFTING DEVICE                     | 1.000 EA |
| HA4051A00      | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| HW4500A03      | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |
| HW4500A20      | 1/8NPT SL PIPE PLUG                      | 1.000 EA |
| MJ1000A75      | GREASE, POLYREX EM EXXON                 | 0.030 LB |
| HA4051A00      | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| HW4500A03      | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |

| Parts List (continued) |  |          |
|------------------------|--|----------|
| Part Number            | Description                              | Quantity |
| HW4500A20              | 1/8NPT SL PIPE PLUG                      | 1.000 EA |
| 85XU0407A04            | #4-7 X 1/4 DRIVE PIN                     | 2.000 EA |
| 39AD2002A01            | BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS  | 2.000 EA |
| HA3154A09              | TB STUD 3/8-16 X 16.25                   | 4.000 EA |
| MG1000Y03              | WILKO 689.710 GOLD PAINT SUPER E         | 0.050 GA |
| NP1259L                | ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM  | 1.000 EA |
| LC0181                 | CONNECTION LABEL                         | 1.000 EA |
| LB1357                 | ENERGY GUIDE LABEL (BOX LABEL)           | 2.000 SH |
| LB1119                 | WARNING LABEL                            | 1.000 EA |
| LB1125C02              | SUPER-E (STOCK CTN LABEL SUPER-E WITH FL | 4.000 EA |
| 39PA1000               | PACKAGING GROUP 39 PRINT                 | 1.000 EA |
| LB5040                 | INSTRUCTION TAG, AC & DC                 | 1.000 EA |

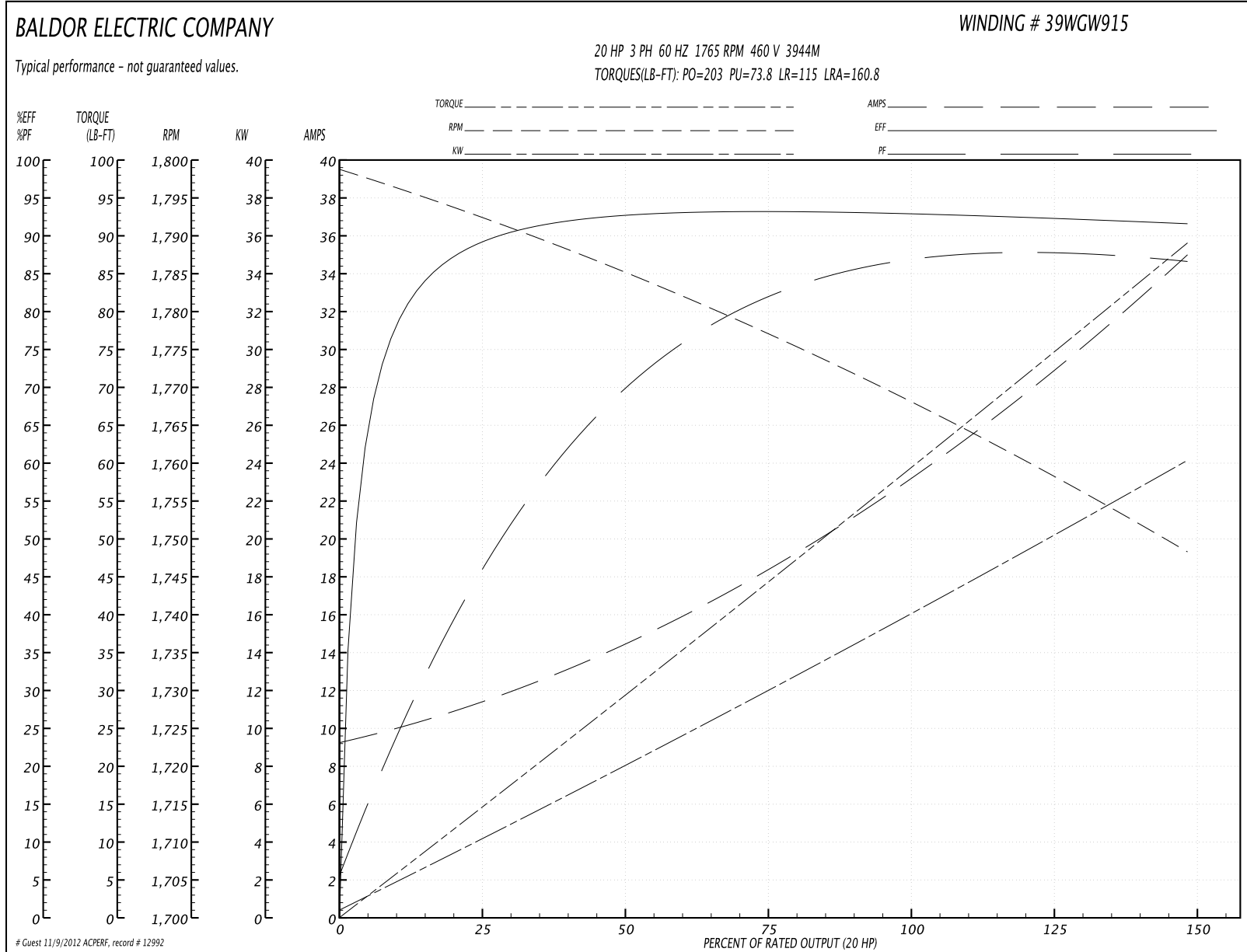
| Accessories |             |            |
|-------------|-------------|------------|
| Part Number | Description | Multiplier |
| 39-3400     | C FACE KIT  | A8         |

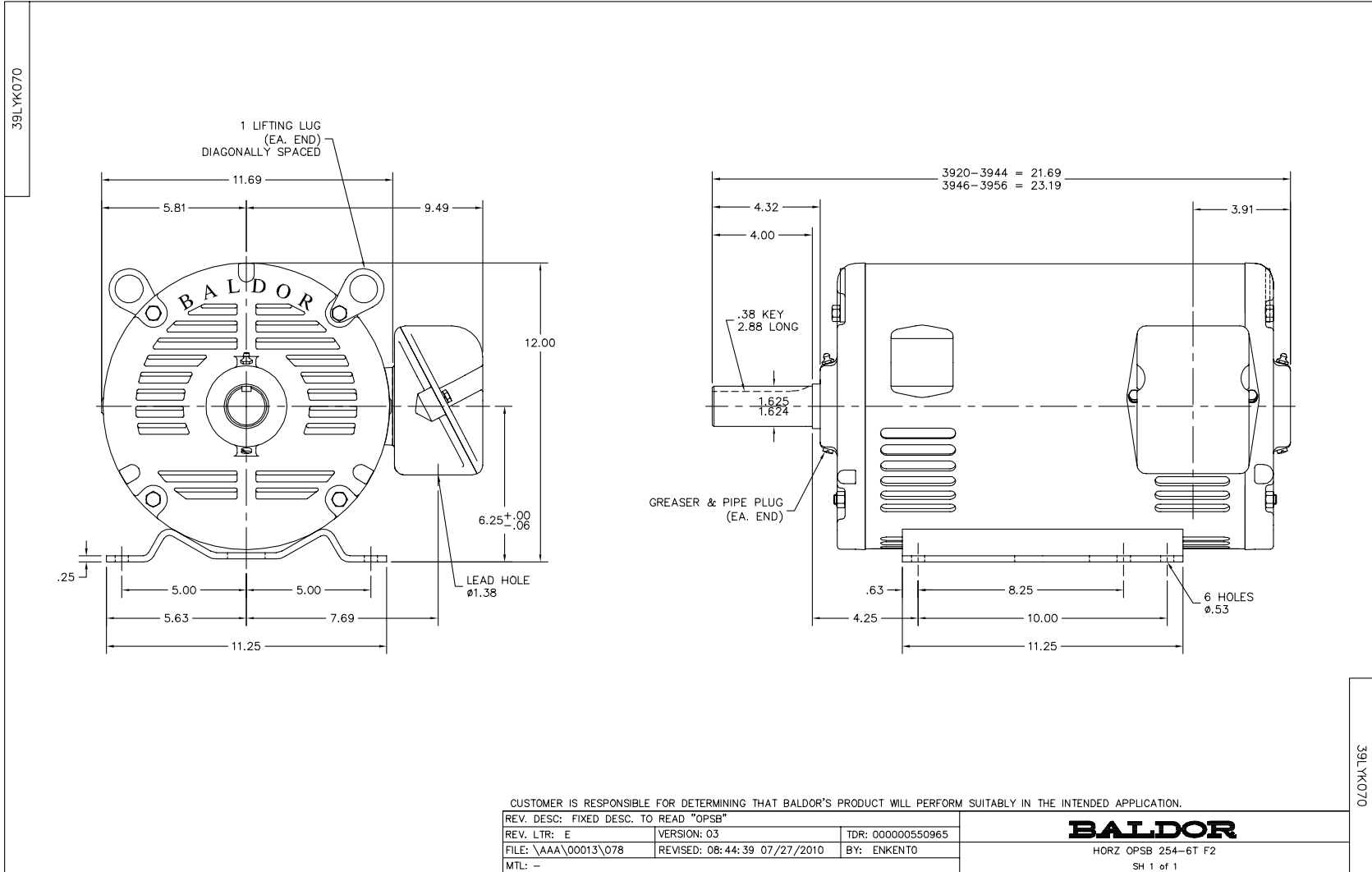
**Performance Data at 460V, 60Hz, 20.0HP (Typical performance - Not guaranteed values)**

| General Characteristics  |                                 |                      |             |
|--------------------------|---------------------------------|----------------------|-------------|
| Full Load Torque:        | 59.4 LB-FT                      | Start Configuration: | DOL         |
| No-Load Current:         | 9.55 Amps                       | Break-Down Torque:   | 203.0 LB-FT |
| Line-line Res. @ 25°C.:  | 0.437 Ohms A Ph / 0.0 Ohms B Ph | Pull-Up Torque:      | 73.8 LB-FT  |
| Temp. Rise @ Rated Load: | 33 C                            | Locked-Rotor Torque: | 115.0 LB-FT |
| Temp. Rise @ S.F. Load:  | 44 C                            | Starting Current:    | 160.8 Amps  |

| Load Characteristics |        |        |        |        |        |        |        |
|----------------------|--------|--------|--------|--------|--------|--------|--------|
| % of Rated Load      | 25     | 50     | 75     | 100    | 125    | 150    | S.F.   |
| Power Factor:        | 48.0   | 71.0   | 81.0   | 86.0   | 88.0   | 88.0   | 87.0   |
| Efficiency:          | 88.5   | 92.5   | 93.2   | 93.1   | 92.4   | 91.5   | 92.7   |
| Speed:               | 1792.0 | 1785.0 | 1777.0 | 1768.0 | 1759.0 | 1748.0 | 1763.0 |
| Line Amperes:        | 11.06  | 14.3   | 18.54  | 23.44  | 28.92  | 34.77  | 26.69  |

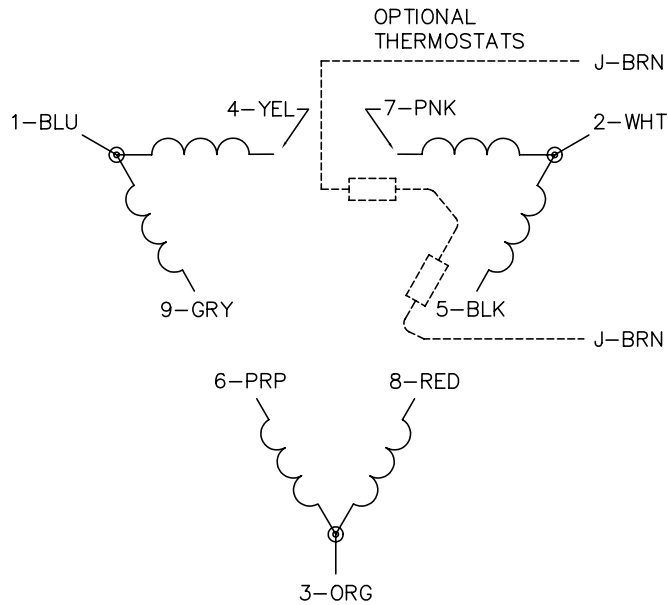
Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values



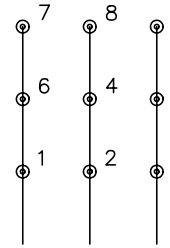




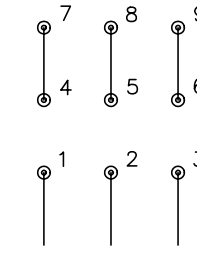
CD0180



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 |
| 0810D0                                    |         | FILE: AAA00005148      | MDL: -       |
|   |         | MTL: -                 |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS, DELTA CONNECTION

CD0180