

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EM2513T**

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

| Part Detail |      |                |       |             |         |               |            |
|-------------|------|----------------|-------|-------------|---------|---------------|------------|
| Revision:   | AE   | Status:        | PRD/A | Change #:   |         | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3938M | Elec. Spec: | 39GW916 | CD Diagram:   | CD0180     |
| Enclosure:  | OPSB | Mfg Plant:     |       | Mech. Spec: | 39K57   | Layout:       | 39LYK057   |
| Frame:      | 254T | Mounting:      | F1    | Poles:      | 04      | Created Date: |            |
| Base:       | RG   | Rotation:      | R     | Insulation: | F       | Eff. Date:    | 11-06-2014 |
| Leads:      | 9#12 |                |       |             |         | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |         |               |            |

|                   |              |                |      |     |   |    |   |
|-------------------|--------------|----------------|------|-----|---|----|---|
| Nameplate NP1259L |              |                |      |     |   |    |   |
| CAT.NO.           | EM2513T      |                |      |     |   |    |   |
| SPEC.             | 39K057W916   |                |      |     |   |    |   |
| HP                | 15           |                |      |     |   |    |   |
| VOLTS             | 230/460      |                |      |     |   |    |   |
| AMP               | 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 |     |   |    |   |
| ENCL              | OPSB         | SN             |      |     |   |    |   |
|                   |              |                |      |     |   |    |   |

**AC Induction Motor Performance Data**

Record # 12993 - Typical performance - not guaranteed values

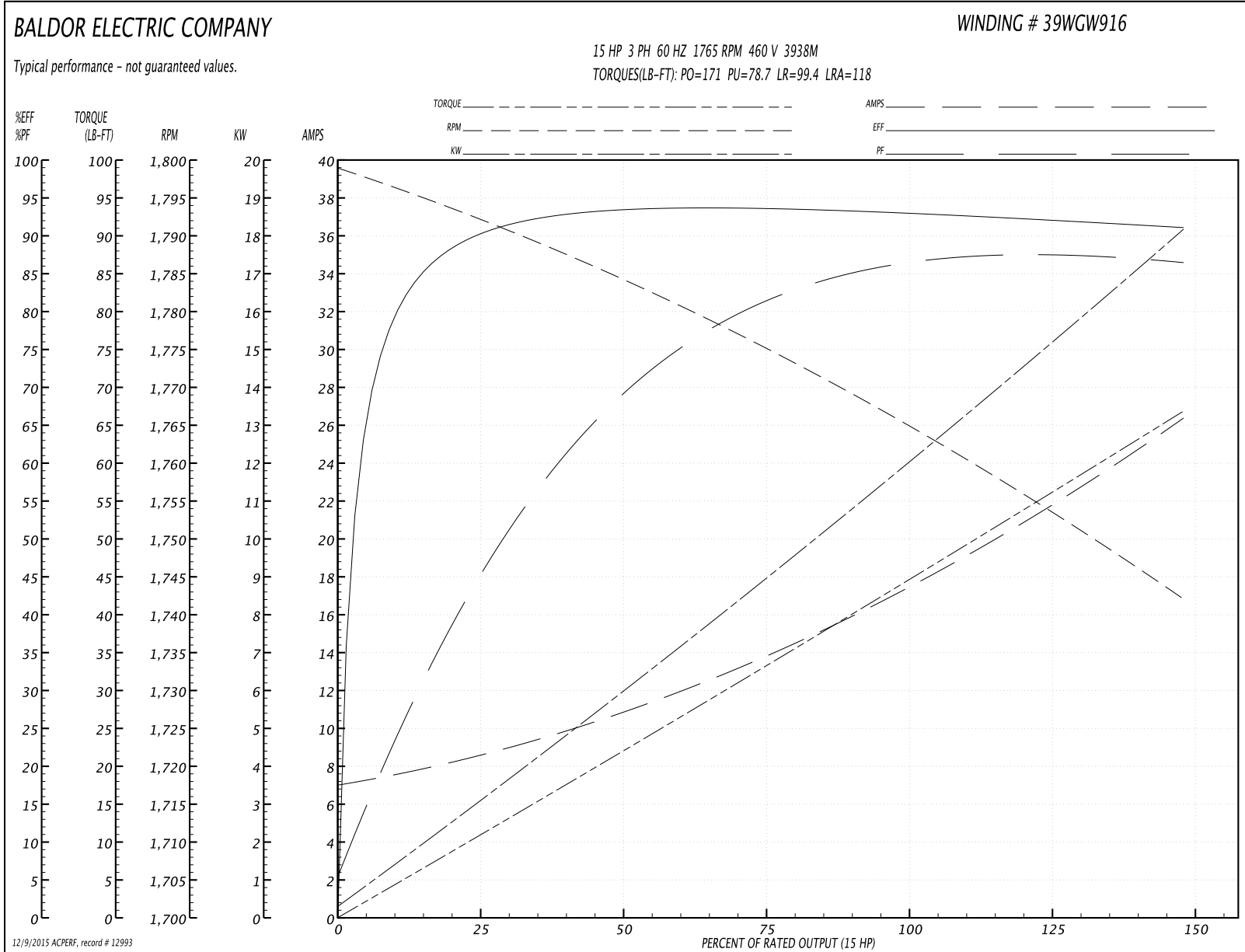
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 39WGW916-R001 | <b>Type:</b> 3938M | <b>Enclosure:</b> OPSB |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                         |
|-----------------------|--------------|--------------|----|------------------------------------------|-------------------------|
| Rated Output (HP)     | 15           |              |    | Full Load Torque                         | 44.6 LB-FT              |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line          |
| Full Load Amps        | 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 LB-FT <sup>2</sup> |

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

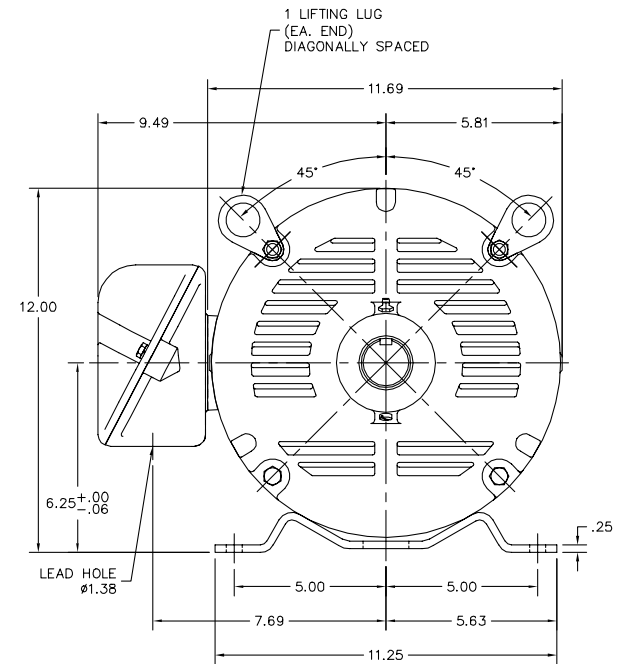
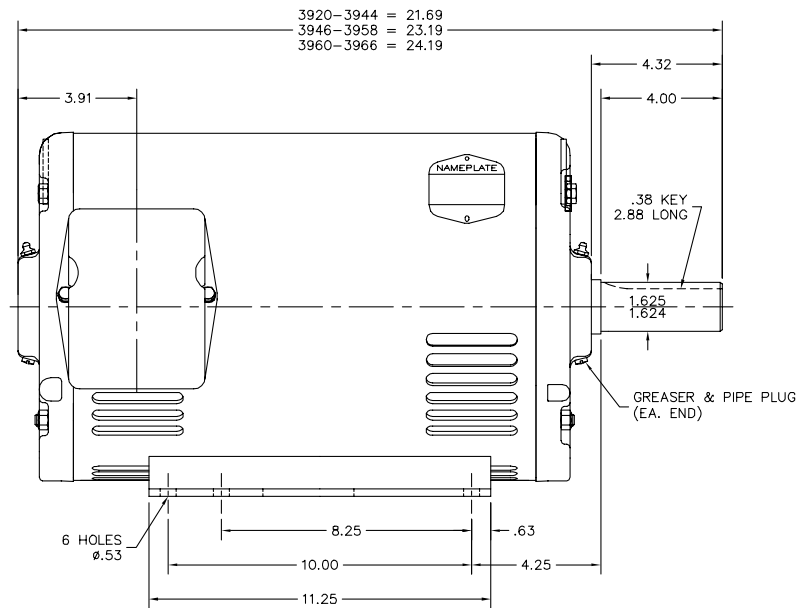
|                 |      |       |       |       |       |       |       |
|-----------------|------|-------|-------|-------|-------|-------|-------|
| % of Rated Load | 25   | 50    | 75    | 100   | 125   | 150   | S.F.  |
| Power Factor    | 47   | 70    | 81    | 86    | 88    | 89    | 87    |
| 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



12/9/2015 ACPERF, record # 12993

39LYK057



39LYK057

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

|                                |                              |                   |
|--------------------------------|------------------------------|-------------------|
| REV. DESC: UPDATED DESCRIPTION |                              |                   |
| REV. LTR: H                    | VERSION: 06                  | TDR: 000000B55568 |
| FILE: \AAA\00049\866           | REVISED: 03:22:41 05/28/2014 | BY: ENNINDO       |
| MTL: -                         |                              |                   |

**BALDOR**

HORZ OPSB 254-6T SUPER-E

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