

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EM30011**

**.5HP,1140RPM,3PH,60HZ,48,3428M,OPEN,F1,N**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | C    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3428M | Elec. Spec: | 34WGS940 | CD Diagram:   | CD0005     |
| Enclosure:  | OPEN | Mfg Plant:     |       | Mech. Spec: | 34F002   | Layout:       | 34LYF002   |
| Frame:      | 48   | Mounting:      | F1    | Poles:      | 06       | Created Date: | 10-03-2014 |
| Base:       | RG   | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 05-25-2016 |
| Leads:      | 9#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP3155L

|                |              |  |  |                |      |     |  |   |    |     |   |
|----------------|--------------|--|--|----------------|------|-----|--|---|----|-----|---|
| CAT.NO.        | EM30011      |  |  |                |      |     |  |   |    |     |   |
| SPEC.          | 34F002S940G1 |  |  |                |      |     |  |   |    |     |   |
| HP             | .5           |  |  |                |      |     |  |   |    |     |   |
| VOLTS          | 230/460      |  |  |                |      |     |  |   |    |     |   |
| AMP            | 2/1          |  |  |                |      |     |  |   |    |     |   |
| RPM            | 1140         |  |  |                |      |     |  |   |    |     |   |
| FRAME          | 48           |  |  |                | HZ   | 60  |  |   |    | PH  | 3 |
| SER.F.         | 1.25         |  |  | CODE           | K    | DES |  | B | CL | B   |   |
| F.L. AVG. EFF. | 75.3         |  |  | PF             | 65   |     |  |   |    |     |   |
| RATING         | 40C AMB-CONT |  |  |                |      |     |  |   |    |     |   |
| CC             |              |  |  | USABLE AT 208V |      |     |  |   |    | 2.3 |   |
| DE             | 6203         |  |  | ODE            | 6203 |     |  |   |    |     |   |
| ENCL           | OPEN         |  |  | SN             |      |     |  |   |    |     |   |
|                | SFA 2.2/1.1  |  |  |                |      |     |  |   |    |     |   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA287955      | SA 34F002S940G1                          | 1.000 EA |
| RA274158      | RA 34F002S940G1                          | 1.000 EA |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 34CB3002A     | CB CAST W/.88 DIA HOLE                   | 1.000 EA |
| 51XB1016A07   | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 34EP3210A01SP | FR ENDPLATE, MACH                        | 1.000 EA |
| HW5100A03SP   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 34EP3212A02   | PU ENDPLATE, MODEL 34 OPEN               | 1.000 EA |
| XY1032A02     | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 EA |
| 34CB4517      | CB LID 4 MTG HOLES .22 DIA STAMPED, FOR  | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| MG1000Y03     | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,      | 0.014 GA |
| 10XF0440S02   | 04-40 X 1/8 TYPE F HEX HD STAINLESS STIC | 2.000 EA |
| HA3100A45     | THRUBOLT 10-32 X 8.875                   | 4.000 EA |
| LC0005E01     | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| MN416A01      | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |
| NP3155L       | ALUM SUPER-E UL CSA CC "SEMS"            | 1.000 EA |
| 35PA1000      | PKG GRP, PRINT      PK1008A06            | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 47462 - Typical performance - not guaranteed values

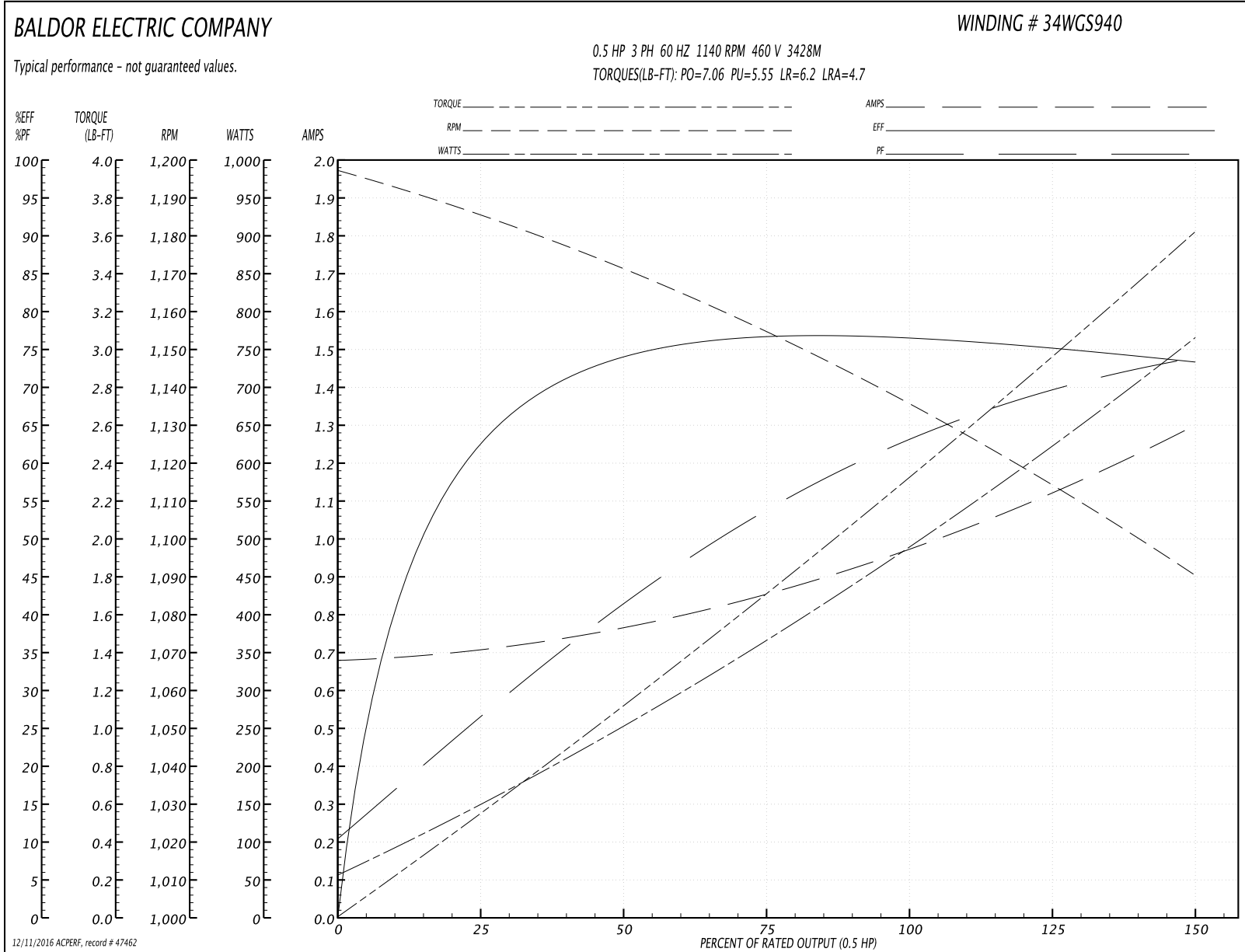
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 34WGS940-R002 | <b>Type:</b> 3428M | <b>Enclosure:</b> OPEN |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                           |
|-----------------------|--------------|--------------|----|------------------------------------------|---------------------------|
| Rated Output (HP)     | .5           |              |    | Full Load Torque                         | 2.36 LB-FT                |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line            |
| Full Load Amps        | 2/1          |              |    | Breakdown Torque                         | 7.06 LB-FT                |
| R.P.M.                | 1140         |              |    | Pull-up Torque                           | 5.55 LB-FT                |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 6.2 LB-FT                 |
| NEMA Design Code      | B            | KVA Code     | K  | Starting Current                         | 4.7 A                     |
| Service Factor (S.F.) | 1.25         |              |    | No-load Current                          | 0.68 A                    |
| NEMA Nom. Eff.        | 75.3         | Power Factor | 65 | Line-line Res. @ 25°C                    | 32.597 Ω                  |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 49°C                      |
| S.F. Amps             | 2.2/1.1      |              |    | Temp. Rise @ S.F. Load                   | 66°C                      |
|                       |              |              |    | Locked-rotor Power Factor                | 56                        |
|                       |              |              |    | Rotor inertia                            | 0.0665 LB-FT <sup>2</sup> |

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

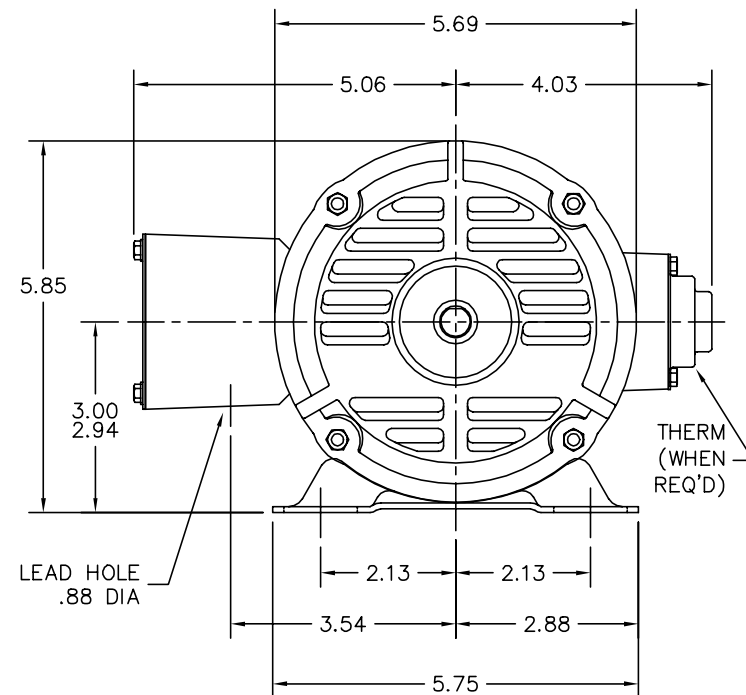
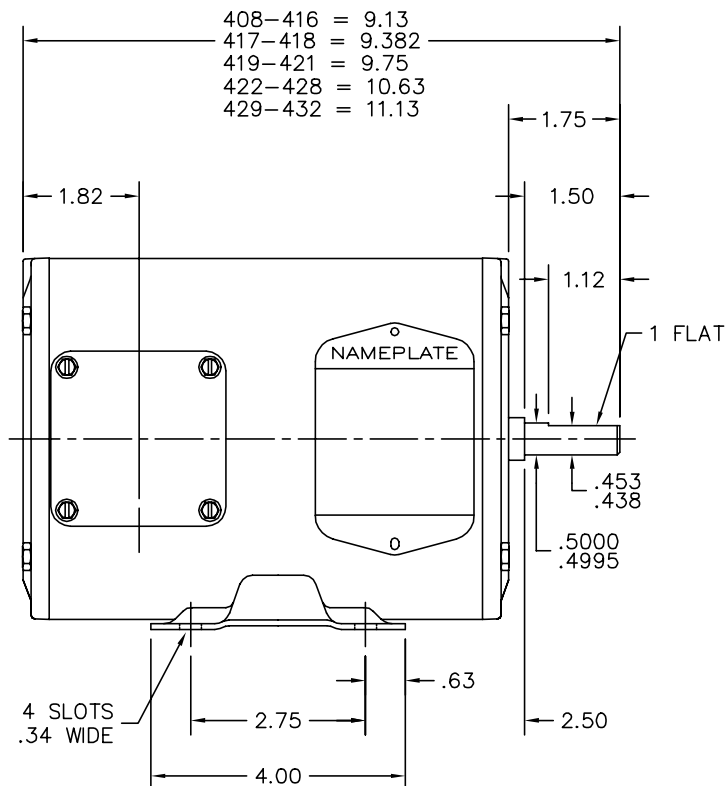
| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 27     | 43     | 54     | 63     | 70     | 75     | 70   |
| Efficiency      | 62.5   | 73.6   | 76.7   | 76.9   | 75.5   | 73.1   | 75.5 |
| Speed           | 1184.7 | 1169.4 | 1153.2 | 1135.4 | 1114.5 | 1089.3 | 1114 |
| Line amperes    | 0.707  | 0.771  | 0.863  | 0.978  | 1.13   | 1.3    | 1.13 |

## Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values



12/11/2016 ACPERF, record # 47462

34LYF002



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: NEW KBOX &amp; LID

REV. LTR: K

BY: RT

REVISED: 14:12:27 11/14/2003

TDR: 314968

34LYF002

FILE: AAA00026293

REF: 34LYF002

MTL: -

**BALDOR ELECTRIC Co.**

STD HORZ MODEL 34M NEMA 48 OPEN

34LYF002

CD0005

LOW VOLTAGE  
(2Y)

LINE

HIGH VOLTAGE  
(1Y)

LINE

## 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: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005