

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **M3460**

**.5HP,3450RPM,3PH,60HZ,48,3410M,TEFC,F1**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | P    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3410M | Elec. Spec: | 34WG0232 | CD Diagram:   | CD0005     |
| Enclosure:  | TEFC | Mfg Plant:     |       | Mech. Spec: | 34A051   | Layout:       | 34LYA051   |
| Frame:      | 48   | Mounting:      | F1    | Poles:      | 02       | Created Date: |            |
| Base:       | RG   | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 09-16-2016 |
| Leads:      | 9#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1256L

|              |              |  |  |                |      |     |   |  |       |    |     |
|--------------|--------------|--|--|----------------|------|-----|---|--|-------|----|-----|
| CAT.NO.      | M3460        |  |  |                |      |     |   |  |       |    |     |
| SPEC.        | 34A51-232    |  |  |                |      |     |   |  |       |    |     |
| HP           | .5           |  |  |                |      |     |   |  |       |    |     |
| VOLTS        | 230/460      |  |  |                |      |     |   |  |       |    |     |
| AMP          | 2/1          |  |  |                |      |     |   |  |       |    |     |
| RPM          | 3450         |  |  |                |      |     |   |  |       |    |     |
| FRAME        | 48           |  |  |                | HZ   | 60  |   |  |       | PH | 3   |
| SER.F.       | 1.25         |  |  | CODE           | L    | DES | B |  | CLASS | B  |     |
| NEMA-NOM-EFF | 68           |  |  | PF             | 63   |     |   |  |       |    |     |
| RATING       | 40C AMB-CONT |  |  |                |      |     |   |  |       |    |     |
| CC           |              |  |  | USABLE AT 208V |      |     |   |  |       |    | 2.6 |
| DE           | 6203         |  |  | ODE            | 6203 |     |   |  |       |    |     |
| ENCL         | TEFC         |  |  | SN             |      |     |   |  |       |    |     |
|              | SFA 2.4/1.2  |  |  |                |      |     |   |  |       |    |     |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA009746      | SA 34A51-232                             | 1.000 EA |
| RA006191      | RA 34A51-232                             | 1.000 EA |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 34CB3002A     | CB CAST W/.88 DIA HOLE                   | 1.000 EA |
| 34GS1029A01   | GASKET, CONDUIT BOX                      | 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 |
| 34EP3102A01SP | FR ENDPLATE, MACH                        | 1.000 EA |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 34EP3102A02SP | FR/PU ENDPLATE, MACH                     | 1.000 EA |
| XY1032A02     | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 EA |
| 34FN3002A01SP | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/  | 1.000 EA |
| 34FH4002A01   | IEC FH NO GREASER PRIMED                 | 1.000 EA |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 34CB4517      | CB LID 4 MTG HOLES .22 DIA STAMPED, FOR  | 1.000 EA |
| 34GS1031A01   | GASKET, FLAT CONDUIT BOX LID (LEXIDE)    | 1.000 EA |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| MG1000G27     | MED CHARCOAL METALLIC GREY 400-0096      | 0.014 GA |
| 10XF0440S02   | 04-40 X 1/8 TYPE F HEX HD STAINLESS STIC | 2.000 EA |
| HA3100A12     | THRUBOLT 10-32 X 7.375                   | 4.000 EA |
| LC0005E01     | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| NP1256L       | ALUM UL CSA CC                           | 1.000 EA |
| 34PA1002      | PKG GRP, PRINT PK1001A01                 | 1.000 EA |

| Accessories |             |            |
|-------------|-------------|------------|
| Part Number | Description | Multiplier |
| 34-3900T    | C-FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 6559 - Typical performance - not guaranteed values

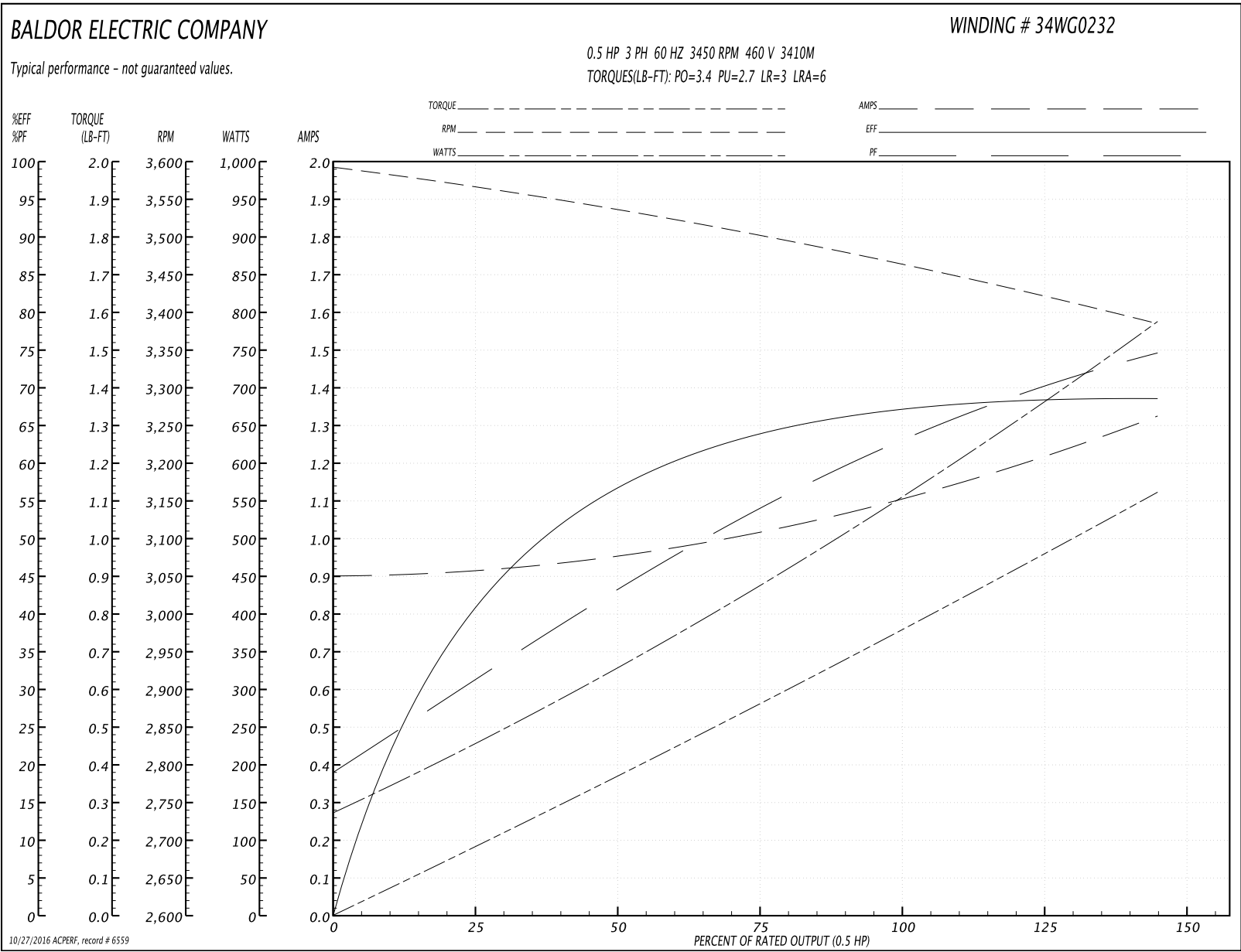
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 34WG0232-R001 | <b>Type:</b> 3410M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

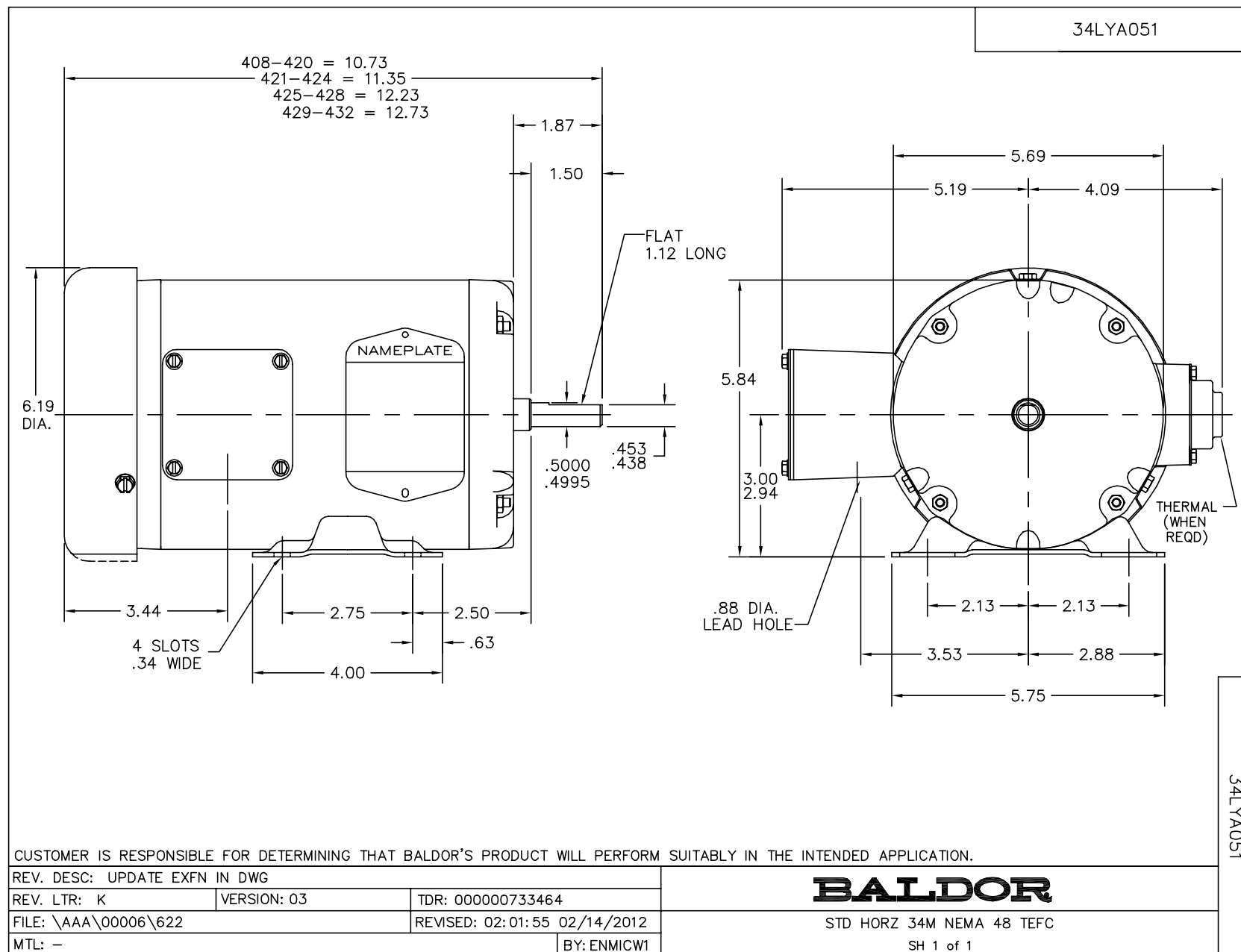
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                           |
|-----------------------|--------------|--------------|----|------------------------------------------|---------------------------|
| Rated Output (HP)     | .5           |              |    | Full Load Torque                         | 0.75 LB-FT                |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line            |
| Full Load Amps        | 2/1          |              |    | Breakdown Torque                         | 3.4 LB-FT                 |
| R.P.M.                | 3450         |              |    | Pull-up Torque                           | 2.7 LB-FT                 |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 3 LB-FT                   |
| NEMA Design Code      | B            | KVA Code     | L  | Starting Current                         | 6 A                       |
| Service Factor (S.F.) | 1.25         |              |    | No-load Current                          | 0.9 A                     |
| NEMA Nom. Eff.        | 68           | Power Factor | 63 | Line-line Res. @ 25°C                    | 35.1 Ω                    |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 58°C                      |
| S.F. Amps             | 2.4/1.2      |              |    | Temp. Rise @ S.F. Load                   | 69°C                      |
|                       |              |              |    | Rotor inertia                            | 0.0093 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    | 33   | 44   | 56   | 64   | 70   | 77   | 70   |
| Efficiency      | 41.4 | 56.3 | 64   | 67.2 | 68.4 | 68.5 | 68.4 |
| Speed           | 3563 | 3535 | 3501 | 3466 | 3432 | 3381 | 3432 |
| Line amperes    | 0.91 | 0.97 | 1.01 | 1.1  | 1.2  | 1.33 | 1.2  |

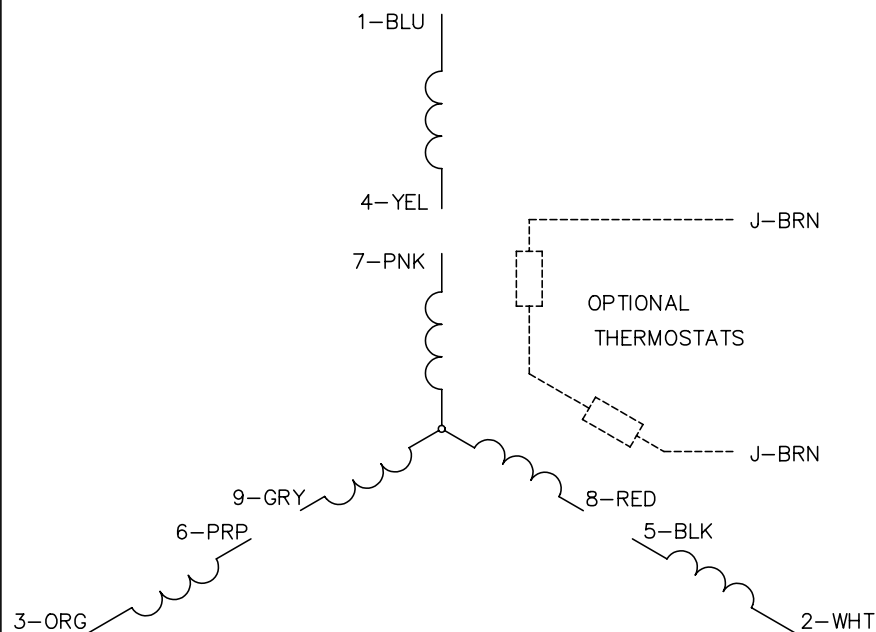
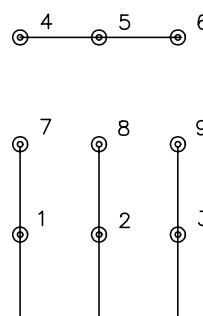
Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values



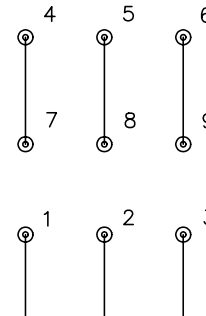




CD0005


 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