

# **BALDOR**® • **RELIANCE**

## **Product Information Packet**

# **M3112A**

**.75HP,1725RPM,3PH,60HZ,56,3420M,OPEN,F1**

| Part Detail |       |                |       |             |          |               |            |
|-------------|-------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | Q     | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | 3420M | Elec. Spec: | 34WG2100 | CD Diagram:   | CD0007     |
| Enclosure:  | OPEN  | Mfg Plant:     |       | Mech. Spec: | 34-1238  | Layout:       | 34LY1238   |
| Frame:      | 56    | Mounting:      | F1    | Poles:      | 04       | Created Date: |            |
| Base:       | RG    | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 09-22-2016 |
| Leads:      | 12#18 |                |       |             |          | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |          |               |            |

| Nameplate NP1257L |                    |
|-------------------|--------------------|
| CAT.NO.           | M3112A             |
| SPEC.             | 34-1238-2100       |
| HP                | .75                |
| VOLTS             | 230/460            |
| AMP               | 3/1.5              |
| RPM               | 1725               |
| FRAME             | 56                 |
| SER.F.            | 1.25               |
| NEMA-NOM-EFF      | 74                 |
| RATING            | 40C AMB-CONT       |
| CC                | USABLE AT 208V 3.6 |
| DE                | 6203               |
| ENCL              | OPEN               |
|                   | SFA 3.4/1.7        |

|      |      |     |    |    |   |    |   |
|------|------|-----|----|----|---|----|---|
| CODE | K    | DES | B  | CL | B | PH | 3 |
| PF   | 60   | HZ  | 60 |    |   |    |   |
| ODE  | 6203 |     |    |    |   |    |   |
| SN   |      |     |    |    |   |    |   |

| Parts List    |  |          |
|---------------|--|----------|
| Part Number   | Description                              | Quantity |
| SA008677      | SA 34-1238-2100                          | 1.000 EA |
| RA005124      | RA 34-1238-2100                          | 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 |
| 34EP3200A01SP | FR ENDPLATE, MACH                        | 1.000 EA |
| HW5100A03SP   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 34EP3200A02SP | FR/PU ENDPLATE, MACH                     | 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 |
| HW2501D13     | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A04     | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 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 |
| HA3100A15     | THRUBOLT 10-32 X 8.375                   | 4.000 EA |
| LB1118        | LABEL,WARNING (ROLL LABEL)               | 1.000 EA |
| LC0007        | CONNECTION LABEL                         | 1.000 EA |
| NP1257L       | ALUM UL CSA CC THERMAL REV MTG           | 1.000 EA |
| 34PA1002      | PKG GRP, PRINT PK1001A01                 | 1.000 EA |

**AC Induction Motor Performance Data**  
Record # 6636 - Typical performance - not guaranteed values

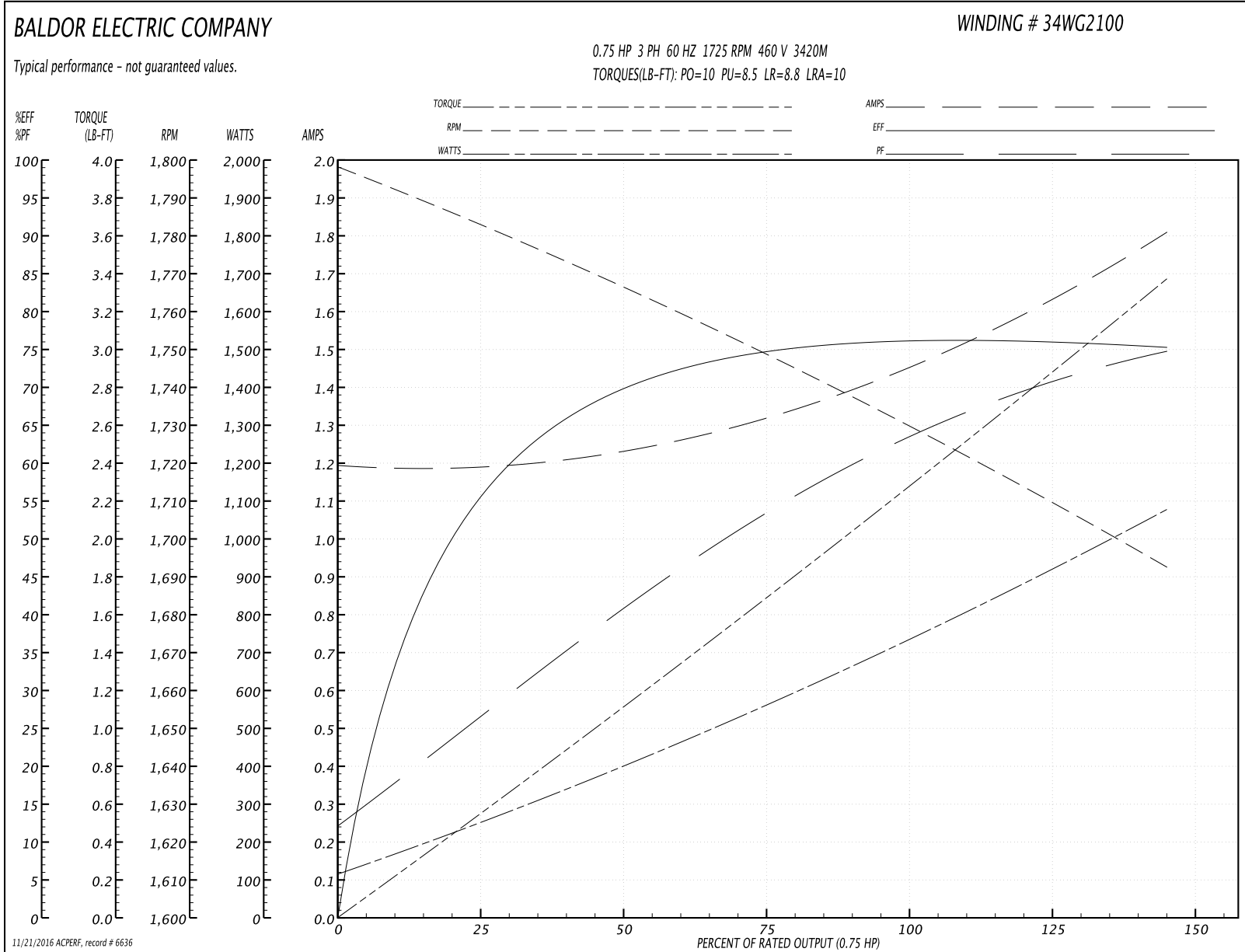
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 34WG2100-R001 | <b>Type:</b> 3420M | <b>Enclosure:</b> OPEN |
|-------------------------------|--------------------|------------------------|

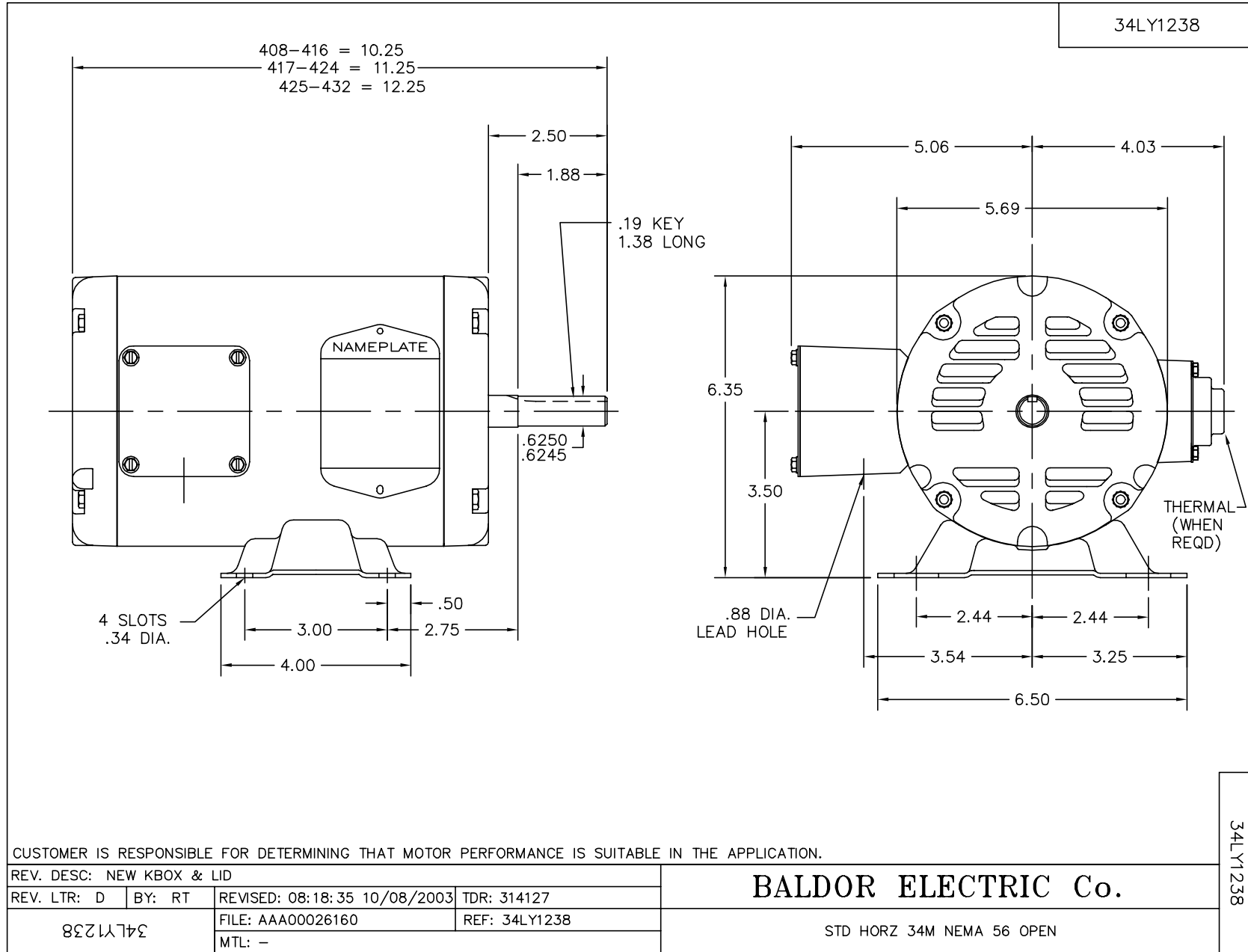
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                           |
|-----------------------|--------------|--------------|----|--|---------------------------|
| Rated Output (HP)     | .75          |              |    | Full Load Torque                         | 2.25 LB-FT                |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line            |
| Full Load Amps        | 3/1.5        |              |    | Breakdown Torque                         | 10 LB-FT                  |
| R.P.M.                | 1725         |              |    | Pull-up Torque                           | 8.5 LB-FT                 |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 8.8 LB-FT                 |
| NEMA Design Code      | B            | KVA Code     | K  | Starting Current                         | 10 A                      |
| Service Factor (S.F.) | 1.25         |              |    | No-load Current                          | 1.2 A                     |
| NEMA Nom. Eff.        | 74           | Power Factor | 60 | Line-line Res. @ 25°C                    | 17.68 Ω                   |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 48°C                      |
| S.F. Amps             | 3.4/1.7      |              |    | Temp. Rise @ S.F. Load                   | 59°C                      |
|                       |              |              |    | Locked-rotor Power Factor                | 59                        |
|                       |              |              |    | Rotor inertia                            | 0.0476 LB-FT <sup>2</sup> |

Load Characteristics 460 V, 60 Hz, 0.75 HP

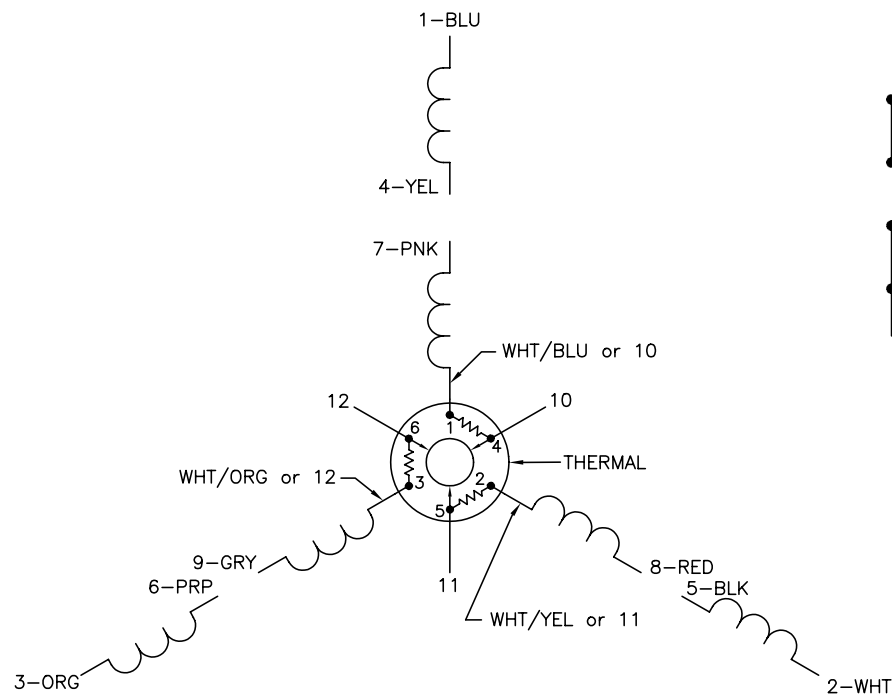
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 28   | 42   | 55   | 64   | 71   | 76   | 71   |
| Efficiency      | 56.1 | 69.7 | 74.7 | 76.2 | 76.1 | 75.2 | 76.1 |
| Speed           | 1783 | 1766 | 1749 | 1731 | 1711 | 1693 | 1711 |
| Line amperes    | 1.2  | 1.2  | 1.3  | 1.5  | 1.6  | 1.8  | 1.6  |

Performance Graph at 460V, 60Hz, 0.75HP Typical performance - Not guaranteed values

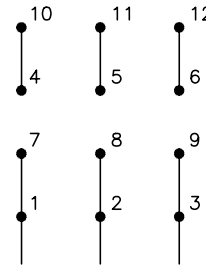




CD0007

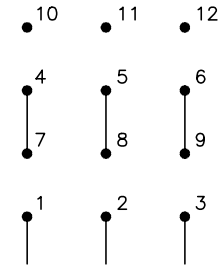


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                  |         |                        |              |
|----------------------------------|---------|------------------------|--------------|
| REV. DESC: ADDED "CK" PLANT CODE |         |                        |              |
| REV. LTR: E                      | BY: EAH | REVISED: 05/06/99 17:1 | TDR: 0181040 |
| L00000                           |         | FILE: AAA00008370      | MDL: -       |
|                                  |         | MTL: -                 |              |

**BALDOR ELECTRIC Co.**

3PH, DV, THERMAL, 12 LEADS

CD0007