

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **VM3543**

**.75HP,1140RPM,3PH,60HZ,56C,3428M,TEFC,F1**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | AA   | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3428M | Elec. Spec: | 34WGW012 | CD Diagram:   | CD0005     |
| Enclosure:  | TEFC | Mfg Plant:     |       | Mech. Spec: | 34A063   | Layout:       | 34LYA063   |
| Frame:      | 56C  | Mounting:      | F1    | Poles:      | 06       | Created Date: |            |
| Base:       | N    | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 09-19-2016 |
| Leads:      | 9#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1256L

|              |                 |  |  |                |    |      |    |     |  |   |    |       |     |
|--------------|-----------------|--|--|----------------|----|------|----|-----|--|---|----|-------|-----|
| CAT.NO.      | VM3543          |  |  |                |    |      |    |     |  |   |    |       |     |
| SPEC.        | 34A63W12        |  |  |                |    |      |    |     |  |   |    |       |     |
| HP           | .75             |  |  |                |    |      |    |     |  |   |    |       |     |
| VOLTS        | 208-230/460     |  |  |                |    |      |    |     |  |   |    |       |     |
| AMP          | 3.3-3/1.5       |  |  |                |    |      |    |     |  |   |    |       |     |
| RPM          | 1140            |  |  |                |    |      |    |     |  |   |    |       |     |
| FRAME        | 56C             |  |  |                | HZ |      | 60 |     |  |   | PH | 3     |     |
| SER.F.       | 1.15            |  |  | CODE           |    | K    |    | DES |  | B |    | CLASS | B   |
| NEMA-NOM-EFF | 77              |  |  | PF             |    | 59   |    |     |  |   |    |       |     |
| RATING       | 40C AMB-CONT    |  |  |                |    |      |    |     |  |   |    |       |     |
| CC           |                 |  |  | USABLE AT 208V |    |      |    |     |  |   |    |       | 3.3 |
| DE           | 6203            |  |  | ODE            |    | 6203 |    |     |  |   |    |       |     |
| ENCL         | TEFC            |  |  | SN             |    |      |    |     |  |   |    |       |     |
|              | SFA 3.5-3.2/1.6 |  |  |                |    |      |    |     |  |   |    |       |     |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA009901      | SA 34A63W12                              | 1.000 EA |
| RA006346      | RA 34A63W12                              | 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 |
| HW5100A03SP   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 34EP3300A24SP | PU ENDPLATE, MACH                        | 1.000 EA |
| 51XN1032A20   | 10-32 X 1 1/4 HX WS SL SR                | 2.000 EA |
| 34FN3002A01SP | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/  | 1.000 EA |
| 34FH4002A01SP | 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 |
| 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 |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| HA3100A45     | THRUBOLT 10-32 X 8.875                   | 4.000 EA |
| LB1119N       | WARNING LABEL                            | 1.000 EA |
| LC0005        | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 EA |
| MN416A01      | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

| Parts List (continued) |                                 |          |
|------------------------|---------------------------------|----------|
| Part Number            | Description                     | Quantity |
| NP1256L                | ALUM UL CSA CC                  | 1.000 EA |
| CPA1001                | PACKING GROUP OVERSIZED SINGLE  | 1.000 EA |
| PK3083T                | STYROFOAM PACKING CRADLE W/TAPE | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 6846 - Typical performance - not guaranteed values

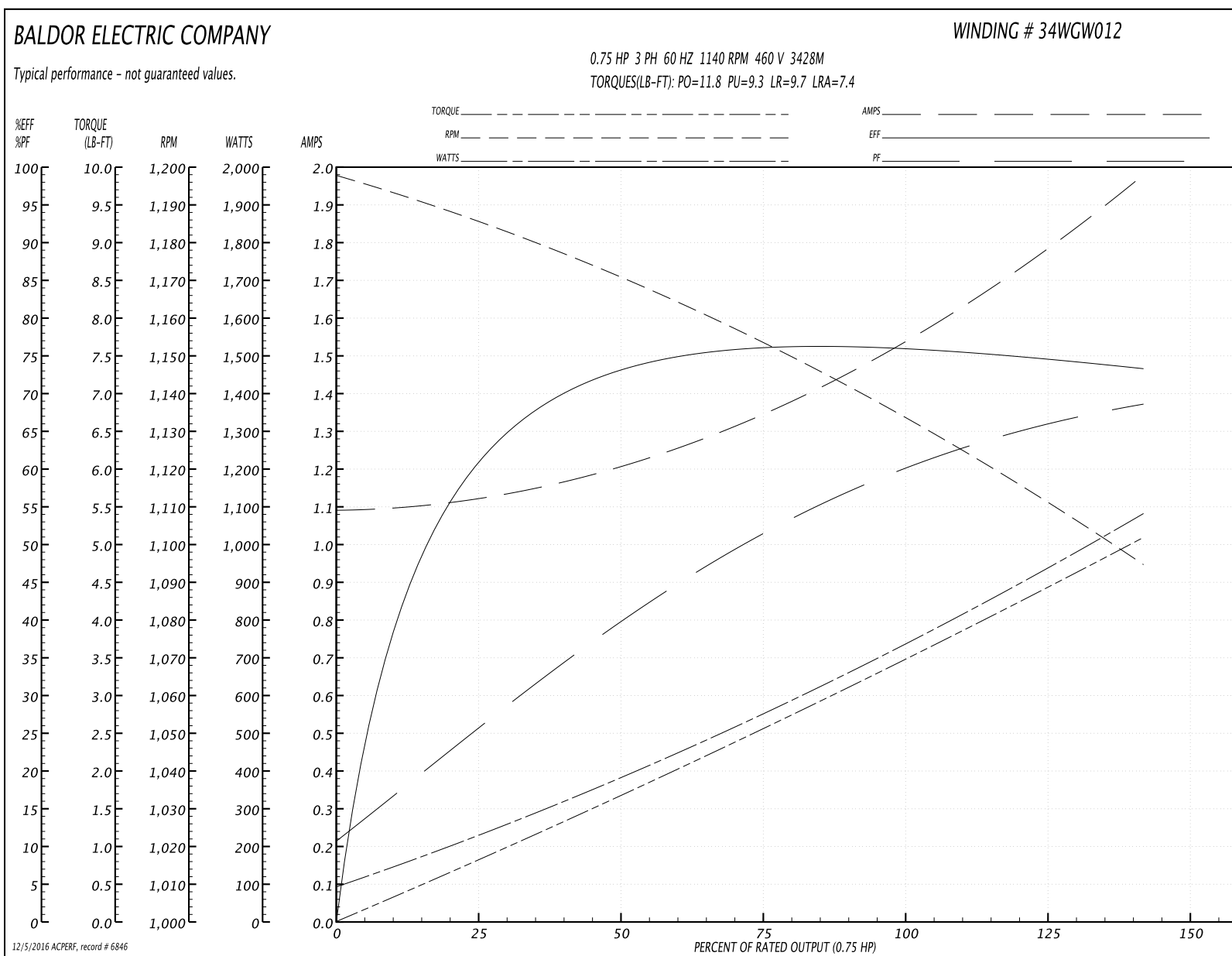
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 34WGW012-R001 | <b>Type:</b> 3428M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

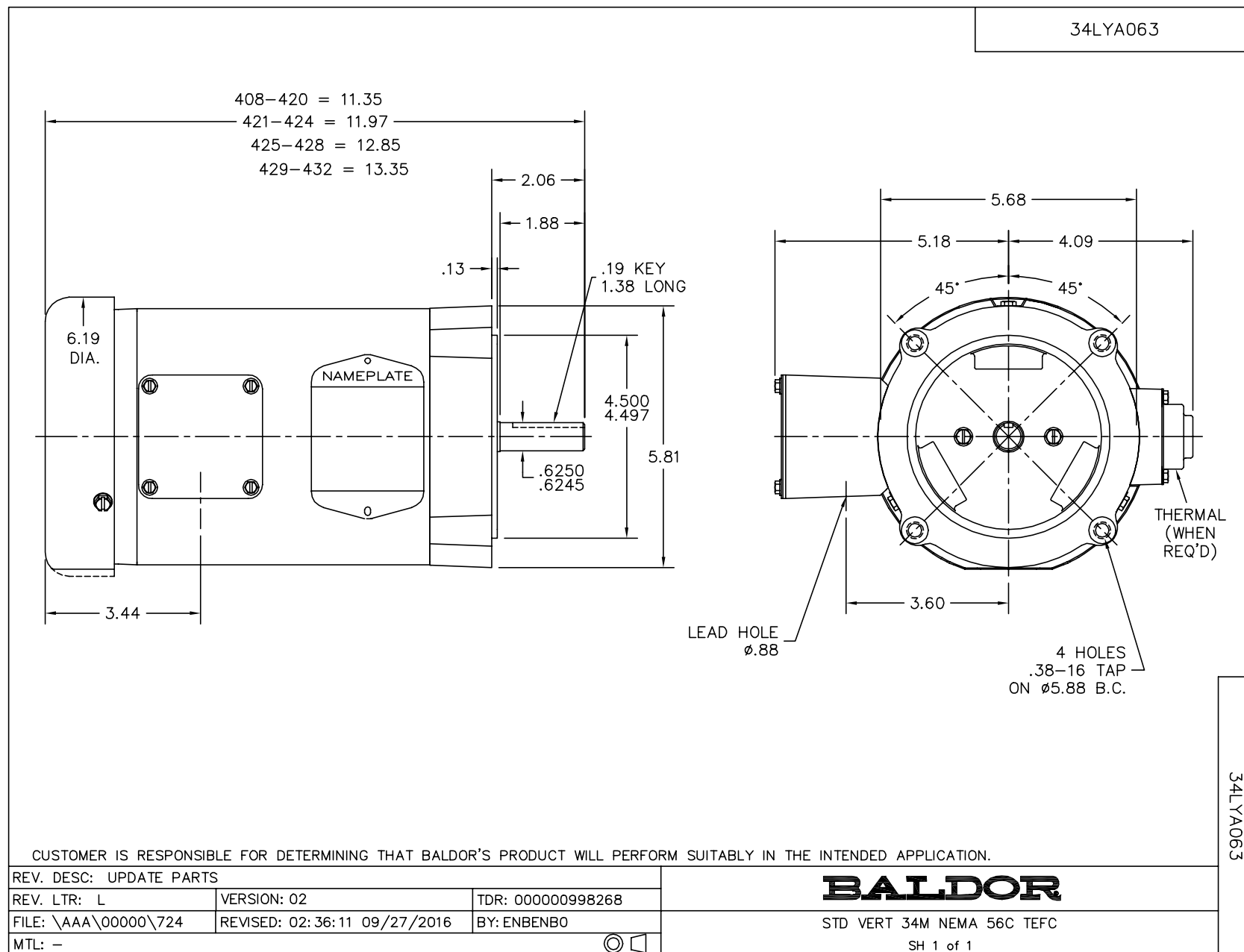
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------|
| Rated Output (HP)     | .75          |              |    | Full Load Torque                         | 3.4 LB-FT      |
| Volts                 | 208-230/460  |              |    | Start Configuration                      | direct on line |
| Full Load Amps        | 3.3-3/1.5    |              |    | Breakdown Torque                         | 11.8 LB-FT     |
| R.P.M.                | 1140         |              |    | Pull-up Torque                           | 9.3 LB-FT      |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 9.7 LB-FT      |
| NEMA Design Code      | B            | KVA Code     | K  | Starting Current                         | 7.4 A          |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 1.1 A          |
| NEMA Nom. Eff.        | 77           | Power Factor | 59 | Line-line Res. @ 25°C                    | 21.9 Ω         |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 62°C           |
| S.F. Amps             | 3.5-3.2/1.6  |              |    | Temp. Rise @ S.F. Load                   | 75°C           |

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 26   | 40   | 51   | 59   | 65   | 68   | 63   |
| Efficiency      | 60   | 72   | 76   | 77   | 75   | 73   | 76   |
| Speed           | 1185 | 1170 | 1155 | 1135 | 1115 | 1095 | 1125 |
| Line amperes    | 1.1  | 1.2  | 1.4  | 1.5  | 1.7  | 2    | 1.6  |

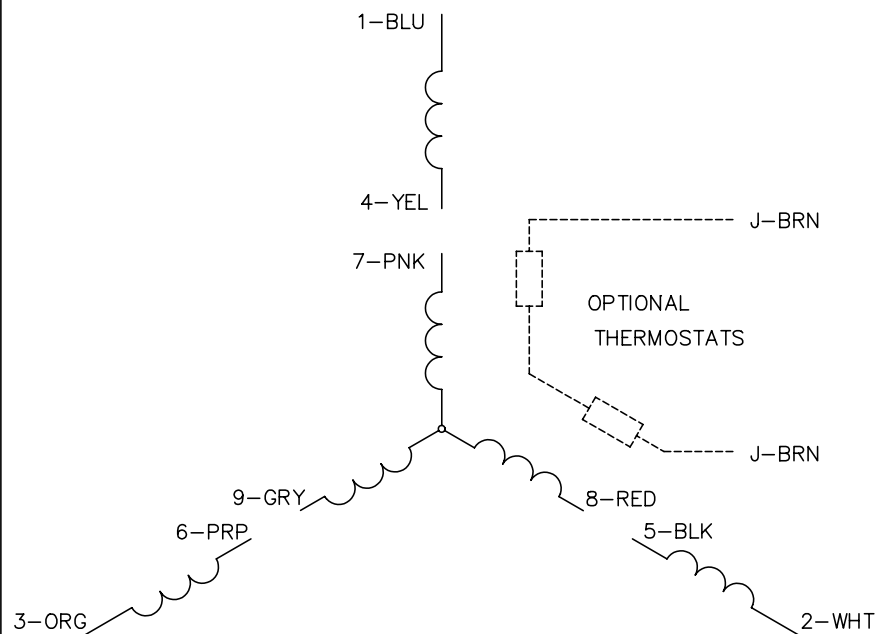
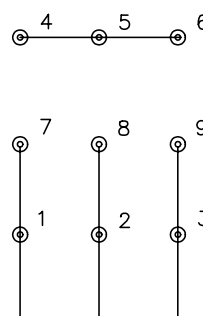
## Performance Graph at 460V, 60Hz, 0.75HP Typical performance - Not guaranteed values



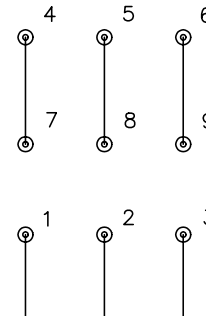




CD0005

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