

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **CM3542**

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

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | U    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3420M | Elec. Spec: | 34WG0883 | CD Diagram:   | CD0005     |
| Enclosure:  | TEFC | Mfg Plant:     |       | Mech. Spec: | 34A062   | Layout:       | 34LYA062   |
| Frame:      | 56C  | Mounting:      | F1    | Poles:      | 04       | Created Date: |            |
| Base:       | RG   | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 05-31-2016 |
| Leads:      | 9#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1256L

|              |                 |  |  |      |                |      |     |   |    |       |   |  |  |
|--------------|-----------------|--|--|------|----------------|------|-----|---|----|-------|---|--|--|
| CAT.NO.      | CM3542          |  |  |      |                |      |     |   |    |       |   |  |  |
| SPEC.        | 34A62-883       |  |  |      |                |      |     |   |    |       |   |  |  |
| HP           | .75             |  |  |      |                |      |     |   |    |       |   |  |  |
| VOLTS        | 208-230/460     |  |  |      |                |      |     |   |    |       |   |  |  |
| AMP          | 3.2-3/1.5       |  |  |      |                |      |     |   |    |       |   |  |  |
| RPM          | 1725            |  |  |      |                |      |     |   |    |       |   |  |  |
| FRAME        | 56C             |  |  |      | HZ             |      | 60  |   | PH | 3     |   |  |  |
| SER.F.       | 1.25            |  |  | CODE | K              |      | DES | B |    | CLASS | B |  |  |
| NEMA-NOM-EFF | 75.5            |  |  |      | PF             | 60   |     |   |    | B     |   |  |  |
| RATING       | 40C AMB-CONT    |  |  |      |                |      |     |   |    |       |   |  |  |
| CC           |                 |  |  |      | USABLE AT 208V |      | 3.6 |   |    |       |   |  |  |
| DE           | 6203            |  |  |      | ODE            | 6203 |     |   |    |       |   |  |  |
| ENCL         | TEFC            |  |  | SN   |                |      |     |   |    |       |   |  |  |
|              | SFA 3.6-3.4/1.7 |  |  |      |                |      |     |   |    |       |   |  |  |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA009839      | SA 34A62-883                             | 1.000 EA |
| RA006284      | RA 34A62-883                             | 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 |
| 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 |
| 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 |

| Parts List (continued) |                             |          |
|------------------------|-----------------------------|----------|
| Part Number            | Description                 | Quantity |
| 34PA1002               | PKG GRP, PRINT    PK1001A01 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 6605 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 34WG0883-R001 | <b>Type:</b> 3420M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------|
| Rated Output (HP)     | .75          |              |    | Full Load Torque                         | 2.25 LB-FT     |
| Volts                 | 208-230/460  |              |    | Start Configuration                      | direct on line |
| Full Load Amps        | 3.2-3/1.5    |              |    | 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.        | 75.5         | Power Factor | 60 | Line-line Res. @ 25°C                    | 17.68 Ω        |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 74°C           |
| S.F. Amps             | 3.6-3.4/1.7  |              |    | Temp. Rise @ S.F. Load                   | 91°C           |

**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





