

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **M7007A**

**.5HP,1140RPM,3PH,60HZ,56,X3516M,XPFC,F1**

| Part Detail |       |                |       |             |          |               |            |
|-------------|-------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | AM    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | 3516M | Elec. Spec: | 35WGZ007 | CD Diagram:   | CD0007     |
| Enclosure:  | XPFC  | Mfg Plant:     |       | Mech. Spec: | 35E354   | Layout:       | 35LYE354   |
| Frame:      | 56    | Mounting:      | F1    | Poles:      | 06       | Created Date: |            |
| Base:       | RG    | Rotation:      | R     | Insulation: | B        | Eff. Date:    | 01-05-2017 |
| Leads:      | 12#18 |                |       |             |          | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP0016XPSL

|                |              |              |    |
|----------------|--------------|--------------|----|
| NO.            |              | CC           |    |
| SER.           |              |              |    |
| SPEC.          | 35E354Z07    |              |    |
| CAT.NO.        | M7007A       |              |    |
| HP             | .5           | T. CODE      | T4 |
| VOLTS          | 208-230/460  |              |    |
| AMPS           | 2.5-2.4/1.2  |              |    |
| RPM            | 1140         |              |    |
| HZ             | 60           | PH           | 3  |
| SER.F.         | 1.00         | DES          | B  |
| RATING         | 40C AMB-CONT |              |    |
| FRAME          | 56           | CL           | B  |
| USABLE AT 208V | 2.5          | CODE         | L  |
| BLANK          |              | PF           | 55 |
|                |              | NEMA-NOM-EFF | 70 |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA023896      | SA 35E354Z07                             | 1.000 EA |
| RA019946      | RA 35E354Z07                             | 1.000 EA |
| TPMYJ72KX     | THERMAL 3PH 0.75 AUT 120C                | 1.000 EA |
| 35CB3001A01SP | EXPL CONDUIT BOX, MACH, 1/2" PIPE TAP LE | 1.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01     | BRASS CUP WASHER, FOR #8 SCREW           | 1.000 EA |
| 35EP3700A01SP | FR ENDPLATE, XPFC                        | 1.000 EA |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35EP3701A01   | PU ENDPLATE, XPFC - 205 BRG              | 1.000 EA |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 EA |
| 35FN3002A05SP | EXFN, PLASTIC, 6.376 OD, .638 ID         | 1.000 EA |
| HA6001A01     | THERMAL RETAINER (PLATED)                | 1.000 EA |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 35CB3500A01SP | CONDUIT BOX LID, MACH                    | 1.000 EA |
| 51XN2520A16   | SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00     | 4.000 EA |
| HW2501D13     | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A04     | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 EA |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 6.000 EA |
| MJ1000A02     | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| 35FH4005A01SP | IEC FH NO GREASER W/PRIMED               | 1.000 EA |
| MG1025G29     | WILKOFASST, 789.229, DARK CHARCOAL GRAY  | 0.017 GA |
| NP0018F       | ALUM UL XP CONDUIT BOX NAMEPLATE         | 1.000 EA |
| 12XF0632A06   | 6-32X3/8 TY F HEX HD SLT                 | 2.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| NS2500A06              | INSULATOR,AUTO THER PROT,W/PSA ON 1 SIDE | 1.000 EA |
| HA3104A06              | THRUBOLT 5/16-18 X 8.50 OHIO ROD         | 4.000 EA |
| LB1118                 | LABEL,WARNING (ROLL LABEL)               | 1.000 EA |
| LC0007                 | CONNECTION LABEL                         | 1.000 EA |
| NP0016XPSL             | SS XP UL CSA CC CL-I GP-D CL-II GP-F&G   | 1.000 EA |
| 36PA1000               | PKG GRP, PRINT      PK1016A06            | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 16919 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGZ007-R002 | <b>Type:</b> 3516M | <b>Enclosure:</b> XPFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                           |
|-----------------------|--------------|--------------|----|------------------------------------------|---------------------------|
| Rated Output (HP)     | .5           |              |    | Full Load Torque                         | 2.25 LB-FT                |
| Volts                 | 208-230/460  |              |    | Start Configuration                      | direct on line            |
| Full Load Amps        | 2.5-2.4/1.2  |              |    | Breakdown Torque                         | 9.6 LB-FT                 |
| R.P.M.                | 1140         |              |    | Pull-up Torque                           | 6.9 LB-FT                 |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 7.1 LB-FT                 |
| NEMA Design Code      | B            | KVA Code     | L  | Starting Current                         | 5.8 A                     |
| Service Factor (S.F.) | 1            |              |    | No-load Current                          | 1.05 A                    |
| NEMA Nom. Eff.        | 70           | Power Factor | 55 | Line-line Res. @ 25°C                    | 37.1 Ω                    |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 47°C                      |
|                       |              |              |    | Locked-rotor Power Factor                | 71                        |
|                       |              |              |    | Rotor inertia                            | 0.0949 LB-FT <sup>2</sup> |

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

|                 |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
| Power Factor    | 25   | 37   | 47   | 56   | 63   | 68   |
| Efficiency      | 39   | 57   | 64   | 68   | 69   | 69   |
| Speed           | 1190 | 1181 | 1170 | 1160 | 1149 | 1137 |
| Line amperes    | 1.05 | 1.1  | 1.15 | 1.25 | 1.35 | 1.45 |

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





