

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **CJEWDM3545**

**1HP,3450RPM,3PH,60HZ,56J,3520M,TEFC,F1,N**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | C    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3520M | Elec. Spec: | 35WGR710 | CD Diagram:   | CD0005     |
| Enclosure:  | TEFC | Mfg Plant:     |       | Mech. Spec: | 35E2234  | Layout:       | 35LYE2234  |
| Frame:      | 56J  | Mounting:      | F1    | Poles:      | 02       | Created Date: | 07-01-2015 |
| Base:       | RG   | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 12-14-2016 |
| Leads:      | 9#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP2179L

|              |               |  |  |      |                |     |      |   |       |  |    |   |
|--------------|---------------|--|--|------|----------------|-----|------|---|-------|--|----|---|
| CAT.NO.      | CJEWDM3545    |  |  |      |                |     |      |   |       |  |    |   |
| SPEC.        | 35E2234R710G1 |  |  |      |                |     |      |   |       |  |    |   |
| HP           | 1             |  |  |      |                |     |      |   |       |  |    |   |
| VOLTS        | 208-230/460   |  |  |      |                |     |      |   |       |  |    |   |
| AMP          | 3.3-3.2/1.6   |  |  |      |                |     |      |   |       |  |    |   |
| RPM          | 3450          |  |  |      |                |     |      |   |       |  |    |   |
| FRAME        | 56J           |  |  |      | HZ             |     | 60   |   |       |  | PH | 3 |
| SER.F.       | 1.40          |  |  | CODE | P              | DES |      | B | CLASS |  |    | F |
| NEMA-NOM-EFF | 78.5          |  |  |      | PF             | 74  |      |   |       |  |    |   |
| RATING       | 40C AMB-CONT  |  |  |      |                |     |      |   |       |  |    |   |
| CC           | 010A          |  |  |      | USABLE AT 208V |     |      |   |       |  |    |   |
| DE           | 6205          |  |  |      | ODE            |     | 6203 |   |       |  |    |   |
| ENCL         | TEFC          |  |  | SN   |                |     |      |   |       |  |    |   |
| BLANK        | SFA 4.2-4/2   |  |  |      |                |     |      |   |       |  |    |   |

| Parts List     |                                           |          |
|----------------|-------------------------------------------|----------|
| Part Number    | Description                               | Quantity |
| SA303419       | SA 35E2234R710G1                          | 1.000 EA |
| RA290549       | RA 35E2234R710G1                          | 1.000 EA |
| 34FN3002B01    | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/   | 1.000 EA |
| S/P107-000-001 | SUPER E PROC'S-FS, WS & CK PLTS           | 1.000 EA |
| NS2512A01      | INSULATOR, CONDUIT BOX X                  | 1.000 EA |
| 35CB3008A01W   | 35 CB .50 NPT @ 6, MACH WHITE EPOXY       | 1.000 EA |
| 35GS1022A03    | GASKET BOX .125 THK WHITE NEOPRENE        | 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 |
| 35EP3100M87MW  | FREP TEFC,"O" DRILLS,NO GR SR, MACH.WHITE | 1.000 EA |
| HW4032A01      | BLACK DRAIN PLUG FOR WASH DOWN MOTORS     | 3.000 EA |
| HW5100A03      | WAVY WASHER (W1543-017)                   | 1.000 EA |
| HW4600B39SP    | V-RING SLINGER 0.550 X 0.790 X .18 VITON  | 1.000 EA |
| 12XN1032S20    | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL  | 2.000 EA |
| 35EP3300A48MW  | SPL FACE MTD EP - 205 BRG - W/SEAL FOR W  | 1.000 EA |
| HW4032A01      | BLACK DRAIN PLUG FOR WASH DOWN MOTORS     | 3.000 EA |
| HW4600B49      | SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB  | 1.000 EA |
| HW4600B46      | V-RING SLINGER 0.875 X 1.420 X .24 VITON  | 1.000 EA |
| 35FH4005A55    | IEC FH NO GR SR,3 MTG HOLE NO DIMPLES,    | 1.000 EA |
| 11XW1032S06    | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U  | 3.000 EA |
| WD4100A10      | 465 NIAGARA PLUG (SO ELEC),FOR 1.093 DIA  | 1.000 EA |
| 35CB4522       | 35 LIPPED CB LID PRIMED                   | 1.000 EA |
| 35GS1030A02    | 35 GS FOR CB LID - WHITE NEOPRENE         | 1.000 EA |
| 59XW0832S07    | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,  | 4.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| MJ5001A27              | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 QT |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| LB1164                 | LABEL,WARNING AND DRAIN                  | 1.000 EA |
| HA5027A01              | HA4066A01 T-DRAIN X2 BAGGED              | 1.000 EA |
| RM1010A12              | .437 I.D. 1" VINYL CAP (SHORT) MOCAP     | 1.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| 51XB1214A16            | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |
| MG1025W01              | WILKOFAS, 781.01, SIGNAL WHITE #9003     | 0.017 GA |
| MG1500Y02              | PRIMER,347.29+347.29C ACTIVATOR WILKOPON | 0.017 GA |
| HA3100S08              | THRUBOLT 7.375LG SS                      | 4.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LC0005                 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 EA |
| NP2179L                | SS WD SUPER-E UL CSA CC REV MTG          | 1.000 EA |
| 36PA1000               | PKG GRP, PRINT PK1016A06                 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 51666 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGR710-R026 | <b>Type:</b> 3520M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                           |
|-----------------------|--------------|--------------|----|------------------------------------------|---------------------------|
| Rated Output (HP)     | 1            |              |    | Full Load Torque                         | 1.48 LB-FT                |
| Volts                 | 208-230/460  |              |    | Start Configuration                      | direct on line            |
| Full Load Amps        | 3.3-3.2/1.6  |              |    | Breakdown Torque                         | 9.7 LB-FT                 |
| R.P.M.                | 3450         |              |    | Pull-up Torque                           | 6.5 LB-FT                 |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 7.5 LB-FT                 |
| NEMA Design Code      | B            | KVA Code     | P  | Starting Current                         | 16.4 A                    |
| Service Factor (S.F.) | 1.4          |              |    | No-load Current                          | 0.84 A                    |
| NEMA Nom. Eff.        | 78.5         | Power Factor | 74 | Line-line Res. @ 25°C                    | 10.6 Ω                    |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 34°C                      |
| S.F. Amps             | 4.2-4/2      |              |    | Temp. Rise @ S.F. Load                   | 45°C                      |
|                       |              |              |    | Locked-rotor Power Factor                | 56.5                      |
|                       |              |              |    | Rotor inertia                            | 0.0548 LB-FT <sup>2</sup> |

**Load Characteristics 460 V, 60 Hz, 1 HP**

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 39   | 57   | 68   | 74   | 79   | 81   | 80   |
| Efficiency      | 63.3 | 74   | 78.7 | 80   | 80.9 | 80.5 | 80.7 |
| Speed           | 3568 | 3547 | 3524 | 3498 | 3473 | 3441 | 3454 |
| Line amperes    | 0.97 | 1.12 | 1.32 | 1.56 | 1.8  | 2.09 | 1.97 |

## Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values





