

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **CWDM3539**

**.5HP,1165RPM,3PH,60HZ,56C,3522M,TENV,F1**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | K    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 3522M | Elec. Spec: | 35WGN469 | CD Diagram:   | CD0005     |
| Enclosure:  | TENV | Mfg Plant:     |       | Mech. Spec: | 35S588   | Layout:       | 35LYS588   |
| Frame:      | 56C  | Mounting:      | F1    | Poles:      | 06       | Created Date: | 08-24-2012 |
| Base:       | RG   | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 12-19-2016 |
| Leads:      | 9#18 |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP1496L

|              |                 |  |      |    |                |    |      |       |    |   |
|--------------|-----------------|--|------|----|----------------|----|------|-------|----|---|
| CAT.NO.      | CWDM3539        |  |      |    |                |    |      |       |    |   |
| SPEC.        | 35S588N469G1    |  |      |    |                |    |      |       |    |   |
| HP           | .5              |  |      |    |                |    |      |       |    |   |
| VOLTS        | 208-230/460     |  |      |    |                |    |      |       |    |   |
| AMP          | 1.9/0.95        |  |      |    |                |    |      |       |    |   |
| RPM          | 1165            |  |      |    |                |    |      |       |    |   |
| FRAME        | 56C             |  |      |    | HZ             |    | 60   |       | PH | 3 |
| SER.F.       | 1.25            |  | CODE |    | K              |    | DES  |       | B  |   |
| NEMA-NOM-EFF | 78.5            |  |      | PF |                | 60 |      | CLASS |    | F |
| RATING       | 40C AMB-CONT    |  |      |    |                |    |      |       |    |   |
| CC           |                 |  |      |    | USABLE AT 208V |    |      |       |    |   |
| DE           | 6205            |  |      |    | ODE            |    | 6203 |       |    |   |
| ENCL         | TENV            |  | SN   |    |                |    |      |       |    |   |
|              | SFA 2.3-2.2/1.1 |  |      |    |                |    |      |       |    |   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA250100      | SA 35S588N469G1                          | 1.000 EA |
| RA236960      | RA 35S588N469G1                          | 1.000 EA |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 EA |
| 35CB3008A01W  | 35 CB .50 NPT @ 6, MACH WHITE EPOXY      | 1.000 EA |
| 35GS1040      | 35 MOLDED GASKET W/LIP, LEAD SEAL,       | 1.000 EA |
| 51XB1016A08   | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 35EP3100M71MW | SPL FR ENDPLATE -TENV- SP.#9 (WHITE EPOX | 1.000 EA |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 EA |
| HW5100A03SP   | WAVY WASHER (W1543-017)                  | 1.000 EA |
| 35PE3300A48MW | 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 |
| 12XN1032S20   | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 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 |
| HW4600B46     | V-RING SLINGER 0.875 X 1.420 X .24 VITON | 1.000 EA |
| HW2502D13     | SS KEY, 3/16 SQ X 1.375                  | 1.000 EA |
| HA7000A04     | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 EA |
| 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 |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| MG1025Z02              | ACTIVATOR WILKOFAS 060.02HF              | 0.010 GA |
| MG1025W01              | WILKOFAS, 781.01, SIGNAL WHITE #9003     | 0.017 GA |
| HA3100S07              | THRUBOLT 10-32 X 8.375 SS                | 4.000 EA |
| LC0005                 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 EA |
| NP1496L                | SS WD UL CSA CC                          | 1.000 EA |
| 35PA1066               | PKG GRP, PRINT PK1008A06                 | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 38108 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 35WGN469-R001 | <b>Type:</b> 3522M | <b>Enclosure:</b> TENV |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------|
| Rated Output (HP)     | .5           |              |    | Full Load Torque                         | 2.19 LB-FT     |
| Volts                 | 208-230/460  |              |    | Start Configuration                      | direct on line |
| Full Load Amps        | 1.9/0.95     |              |    | Breakdown Torque                         | 7.69 LB-FT     |
| R.P.M.                | 1165         |              |    | Pull-up Torque                           | 5.09 LB-FT     |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 5.89 LB-FT     |
| NEMA Design Code      | B            | KVA Code     | K  | Starting Current                         | 5.68 A         |
| Service Factor (S.F.) | 1.25         |              |    | No-load Current                          | 0.712 A        |
| NEMA Nom. Eff.        | 78.5         | Power Factor | 60 | Line-line Res. @ 25°C                    | 33.876 Ω       |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 73°C           |
| S.F. Amps             | 2.3-2.2/1.1  |              |    | Temp. Rise @ S.F. Load                   | 100°C          |

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

|                 |        |        |        |        |        |        |      |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
| Power Factor    | 24     | 39     | 51     | 60     | 67     | 72     | 67   |
| Efficiency      | 58.1   | 72.5   | 77.4   | 78.8   | 78.8   | 77.6   | 78.8 |
| Speed           | 1192.7 | 1184.4 | 1175.1 | 1165.4 | 1154.5 | 1141.6 | 1154 |
| Line amperes    | 0.734  | 0.78   | 0.855  | 0.955  | 1.08   | 1.23   | 1.08 |

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





