

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **M4115T-9**

**50HP,1770RPM,3PH,60HZ,326T,1268M,TEFC,F1**

| Part Detail |      |                |       |             |          |               |            |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | -    | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC   | Prod. Type:    | 1268M | Elec. Spec: | 12WGX989 | CD Diagram:   | CD0180     |
| Enclosure:  | TEFC | Mfg Plant:     |       | Mech. Spec: | 12H333   | Layout:       | 12LYH333   |
| Frame:      | 326T | Mounting:      | F1    | Poles:      | 04       | Created Date: | 07-16-2014 |
| Base:       | RG   | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 07-30-2014 |
| Leads:      | 9#8  |                |       |             |          | Replaced By:  |            |
| Literature: |      | Elec. Diagram: |       |             |          |               |            |

|                   |              |                |  |  |      |     |   |       |   |
|-------------------|--------------|----------------|--|--|------|-----|---|-------|---|
| Nameplate NP1261L |              |                |  |  |      |     |   |       |   |
| CAT.NO.           | M4115T-9     |                |  |  |      |     |   |       |   |
| SPEC.             | 12H333X989H2 |                |  |  |      |     |   |       |   |
| HP                | 50           |                |  |  |      |     |   |       |   |
| VOLTS             | 208-230/460  |                |  |  |      |     |   |       |   |
| AMP               | 130-118/59   |                |  |  |      |     |   |       |   |
| RPM               | 1770         |                |  |  |      |     |   |       |   |
| FRAME             | 326T         | HZ             |  |  | 60   | PH  | 3 |       |   |
| SER.F.            | 1.15         | CODE           |  |  | F    | DES | C | CLASS | F |
| NEMA-NOM-EFF      | 93           | PF             |  |  | 85   |     |   |       |   |
| RATING            | 40C AMB-CONT |                |  |  |      |     |   |       |   |
| CC                | 010A         | USABLE AT 208V |  |  |      |     |   |       |   |
| DE                | 6312         | ODE            |  |  | 6311 |     |   |       |   |
| ENCL              | TEFC         | SN             |  |  |      |     |   |       |   |
|                   |              |                |  |  |      |     |   |       |   |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA284704      | SA 12H333X989H2                          | 1.000 EA |
| RA270969      | RA 12H333X989H2                          | 1.000 EA |
| 09FN3001A03   | EXTERNAL FAN, PLASTIC KENCO              | 1.000 EA |
| 10CB1000A04SP | CONDUIT BOX, MACH                        | 1.000 EA |
| 09GS1010      | GASKET, DWG, LEADWIRE SEPERATOR          | 1.000 EA |
| 10XN3118K12   | 5/16-18 X .75 GRADE 5, ZINC PLATED       | 4.000 EA |
| HW1001A31     | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 EA |
| WD1000B16     | T&B CX70TN TERMINAL                      | 1.000 EA |
| 10XN2520K08   | 1/4-20 X .50 GRADE #5, STL, ZINC PLATE   | 1.000 EA |
| HW1001A25     | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 1.000 EA |
| 12EP1107A05   | FR ENDPLATE, MACH 324-6T                 | 1.000 EA |
| HW4600B41     | V-RING SLINGER 2.125 X 2.880 X 0.280     | 1.000 EA |
| HA3400A13SP   | STUD, 1/2-13 X 7" WELKER                 | 4.000 EA |
| HW1001A50     | LOCKWASHER 1/2, ZINC PLT.,879 OD, .509 I | 4.000 EA |
| HW5100A13     | W4627-047 WVY WSHER                      | 1.000 EA |
| 10XN3118K36   | 5/16-18 X 2.25" HEX HD, GRADE 5          | 2.000 EA |
| 12EP1106A01   | PU ENDPLATE, MACH 324-6T                 | 1.000 EA |
| 10XN5013K28   | 1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD   | 4.000 EA |
| HW1001A50     | LOCKWASHER 1/2, ZINC PLT.,879 OD, .509 I | 4.000 EA |
| HW4600B41     | V-RING SLINGER 2.125 X 2.880 X 0.280     | 1.000 EA |
| 10XN3118K40   | 5/16-18 X 2.50" HEX HD, GRADE 5          | 4.000 EA |
| 12FH1002SP    | FAN COVER, CAST QF,WAUPACA QUALITY       | 1.000 EA |
| XY5013A12     | NUT,1/2-13,HEX,STEEL,ZINCPLATED          | 4.000 EA |
| HW1001A50     | LOCKWASHER 1/2, ZINC PLT.,879 OD, .509 I | 4.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 10CB1500A01SP          | CONDUIT BOX LID, MACH                    | 1.000 EA |
| 14GS1003               | GASKET CONDUIT BOX LID, NEOP             | 1.000 EA |
| 10XN2520K12            | 1/4-20 X.75 GRD 5                        | 4.000 EA |
| HW1001A25              | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| HW2501H33              | KEY, 1/2 SQ X 3.875                      | 1.000 EA |
| MJ5001A27              | 32220KN GRAY SEALER                      | 0.031 QT |
| MJ5001A14              | DYNAPRO SEAL, CP MOTORS VC#2508050 (603  | 0.033 EA |
| MJ5002A01              | SILICON RUBBER SEALANT, 732CL 10.3 OZ TU | 0.025 EA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| LB1002N                | LABEL,MARINE DUTY (ON ROLLS)             | 1.000 EA |
| HW4500A21              | 1618BALEMITE FITTING 825 UNIVERSAL       | 1.000 EA |
| HA4017A01              | 1/8 X 4 GREASE EXT (F/S)                 | 1.000 EA |
| HW4500A17              | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4054                 | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 EA |
| HA4051A00              | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| MJ1000A75              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.200 LB |
| HW4500A03              | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |
| HW4500A17              | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4054                 | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 EA |
| HA4051A00              | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| HW2500A25              | WOODRUFF KEY USA #1008 #BLOW CARBON STEE | 1.000 EA |
| 51XB1214A20            | 12-14X1.25 HXWSSLD SERTYB                | 1.000 EA |
| MG1025N19              | PAINT, 778.50 WILKO, RELIANCE ELEC GREEN | 0.080 GA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LB1125C01              | STD (STOCK) CARTON LABEL BALDOR WITH FLA | 4.000 EA |
| LC0181                 | CONNECTION LABEL                         | 1.000 EA |
| NP1261L                | SS, UL CSA CC, W/O THERMAL, LASER        | 1.000 EA |
| 12PA1000               | PACKAGING GROUP COMBINED PRINT PK1024A06 | 1.000 EA |
| LB1506                 | LABEL "AMERICAN MADE" 1.50 X 1.00        | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1200/bx) 10/13 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 31290 - Typical performance - not guaranteed values

|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 12WGX989-R002 | <b>Type:</b> 1268M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                      |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------------|
| Rated Output (HP)     | 50           |              |    | Full Load Torque                         | 148 LB-FT            |
| Volts                 | 208-230/460  |              |    | Start Configuration                      | direct on line       |
| Full Load Amps        | 130-118/59   |              |    | Breakdown Torque                         | 380 LB-FT            |
| R.P.M.                | 1770         |              |    | Pull-up Torque                           | 235 LB-FT            |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 312 LB-FT            |
| NEMA Design Code      | C            | KVA Code     | F  | Starting Current                         | 344 A                |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                          | 20.4 A               |
| NEMA Nom. Eff.        | 93           | Power Factor | 85 | Line-line Res. @ 25°C                    | 0.10763 Ω            |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 68°C                 |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                   | 83°C                 |
|                       |              |              |    | Rotor inertia                            | 9.06 LF <sup>2</sup> |

**Load Characteristics 460 V, 60 Hz, 50 HP**

|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 55   | 74   | 82   | 85   | 86   | 85   | 86   |
| Efficiency      | 89.2 | 92.7 | 93.3 | 93   | 92.3 | 91   | 92.6 |
| Speed           | 1793 | 1787 | 1781 | 1774 | 1767 | 1755 | 1770 |
| Line amperes    | 24.4 | 34.3 | 46.1 | 59.4 | 74.3 | 94.3 | 68.3 |

## Performance Graph at 460V, 60Hz, 50.0HP Typical performance - Not guaranteed values





