

# **BALDOR® • RELIANCE**

## **Product Information Packet**

# **ZDWNM22937T**

**7.5HP,1770RPM,3PH,60HZ,254TC,3948M,TENV**

| Part Detail |       |                |       |             |          |               |            |
|-------------|-------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | -     | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | 3948M | Elec. Spec: | 39WGX950 | CD Diagram:   | CD0005     |
| Enclosure:  | TENV  | Mfg Plant:     |       | Mech. Spec: | 39S001   | Layout:       | 39LYS001   |
| Frame:      | 254TC | Mounting:      | F1    | Poles:      | 04       | Created Date: | 06-30-2016 |
| Base:       | RG    | Rotation:      | R     | Insulation: | H        | Eff. Date:    | 07-07-2016 |
| Leads:      | 9#12  |                |       |             |          | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |          |               |            |

|                   |              |    |    |    |         |          |  |       |   |
|-------------------|--------------|----|----|----|---------|----------|--|-------|---|
| Nameplate NP1167L |              |    |    |    |         |          |  |       |   |
| CAT NO            | ZDWNM22937T  |    |    |    |         |          |  |       |   |
| SPEC.             | 39S001X950Z1 |    |    |    |         |          |  |       |   |
| FRAME             | 254TC        |    |    |    | HP      | 7.5 TE   |  |       |   |
| VOLTS             | 230/460      |    |    |    |         |          |  |       |   |
| MAG CUR           | 7.4/3.7      |    |    |    | FLA     | 17.8/8.9 |  |       |   |
| RPM               | 1770         |    |    |    | RPM MAX | 5000     |  |       |   |
| HZ                | 60           |    |    |    | PH      | 3        |  | CLASS | H |
| SER.F.            | 1.00         |    |    |    | DES     | A        |  | SL HZ | 1 |
| NEMA-NOM-EFF      | 91.7         |    |    |    | WK2     | 2.1      |  |       |   |
| BLWR V            |              | PH |    | HZ |         | A        |  |       |   |
| RATING            | 40C AMB-CONT |    |    |    |         |          |  |       |   |
| DE BRG            | 6309         |    |    |    | ODE BRG | 6208     |  |       |   |
| CC                | 010A         |    | SN |    |         |          |  |       |   |
|                   |              |    |    |    |         |          |  |       |   |

| Parts List    |                                           |          |
|---------------|-------------------------------------------|----------|
| Part Number   | Description                               | Quantity |
| SA323111      | SA 39S001X950Z1                           | 1.000 EA |
| RA310927      | RA 39S001X950Z1                           | 1.000 EA |
| HA6016WP      | ADAPTER, CONDUIT BOX, W/WHITE EPOXY, PRIM | 1.000 EA |
| 09GS1006      | GASKET, CONDUIT BOX, NEOP-1/16 THICK-BLA  | 1.000 EA |
| 09CB3002A01WP | CB MACH - 1.25 N.P.T. LEAD HOLE W/WHITE   | 1.000 EA |
| 51XW2520A12   | .25-20 X .75, TAPTITE II, HEX WSHR SLTD   | 2.000 EA |
| HW1001A25     | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I  | 2.000 EA |
| WD1000B17     | T&B CX35TN TERMINAL                       | 1.000 EA |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U  | 1.000 EA |
| 39EP1100A25WP | FREP W/THRU SH ENC DESIGN & SEAL W/WHITE  | 1.000 EA |
| HW4600A31     | SEAL,NATIONAL #453065 SINGLE LIP DOUBLE   | 1.000 EA |
| HW5100A08     | W3118-035 WVY WSHR (WB)                   | 1.000 EA |
| 10XN2520S28   | 1/4-20X 1 3/4 HEX HD SS X                 | 4.000 EA |
| 39EP1500A04WP | PU ENDPLATE, MACH. W/WHITE EPOXY, PRIMED  | 1.000 EA |
| HW4600B53     | SEAL 1.688 X 2.275 X 0.312 SINGLE LIP DB  | 1.000 EA |
| HW4600B44     | V-RING SLINGER 1.500 X 1.810 X .28 VITON  | 1.000 EA |
| HA3154S02     | THRUBOLT STUD 3/8-16 X 15.875 SS          | 4.000 EA |
| XY3816S12     | 3/8-16 HEX FINISHED NUT SS                | 8.000 EA |
| HA6881        | BEI HS35 THRU SHAFT ENCODER PROTECTIVE C  | 1.000 EA |
| 10XN3816S12   | 3/8-16 X 3/4 HEX HD CAP SCREW, STAINLE    | 3.000 EA |
| HW1001S38     | WASHER, 3/8 SPLT LK, STAINLESS STEEL      | 3.000 EA |
| 09CB3501WP    | CB LID FOR 09CB3001 & 09CB3002 W/WHITE P  | 1.000 EA |
| 12GS1002      | GASKET, CONDUIT BOX LID, NEOP             | 1.000 EA |
| 19XT2520S12   | 1/4-20X3/4 HWH NO SLOT TY.23 18-8 S.S.    | 2.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| HW1001S25              | WASHER, 1/4 SPLT LK, STAINLESS STEEL     | 2.000 EA |
| HW2502G25              | #303 SS,SQ KEY 3/8 X 2.880               | 1.000 EA |
| MJ5001A27              | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.016 QT |
| MJ5002A01              | SILICON RUBBER SEALANT, 732CL 10.3 OZ TU | 0.025 EA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| HA5027A01              | HA4066A01 T-DRAIN X2 BAGGED              | 1.000 EA |
| 09GS1017               | GASKET, CONDUIT BOX, .125 THICK BLACK NE | 1.000 EA |
| HW4032A01              | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.030 LB |
| HW4032A01              | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 EA |
| OE5001A87              | TENV W/OEHS35A15 W/BLIND SHAFT,TETHER, A | 1.000 EA |
| MG1025W01              | WILKOFAST, 781.01, SIGNAL WHITE #9003    | 0.050 GA |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 EA |
| LB1164                 | LABEL,WARNING AND DRAIN                  | 1.000 EA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |
| LC0005                 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 EA |
| NP1167L                | SS VEC UL CSA CC                         | 1.000 EA |
| 40PA1000               | PACKAGING GROUP                          | 1.000 EA |
| MN416A01               | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 57991 - Typical performance - not guaranteed values

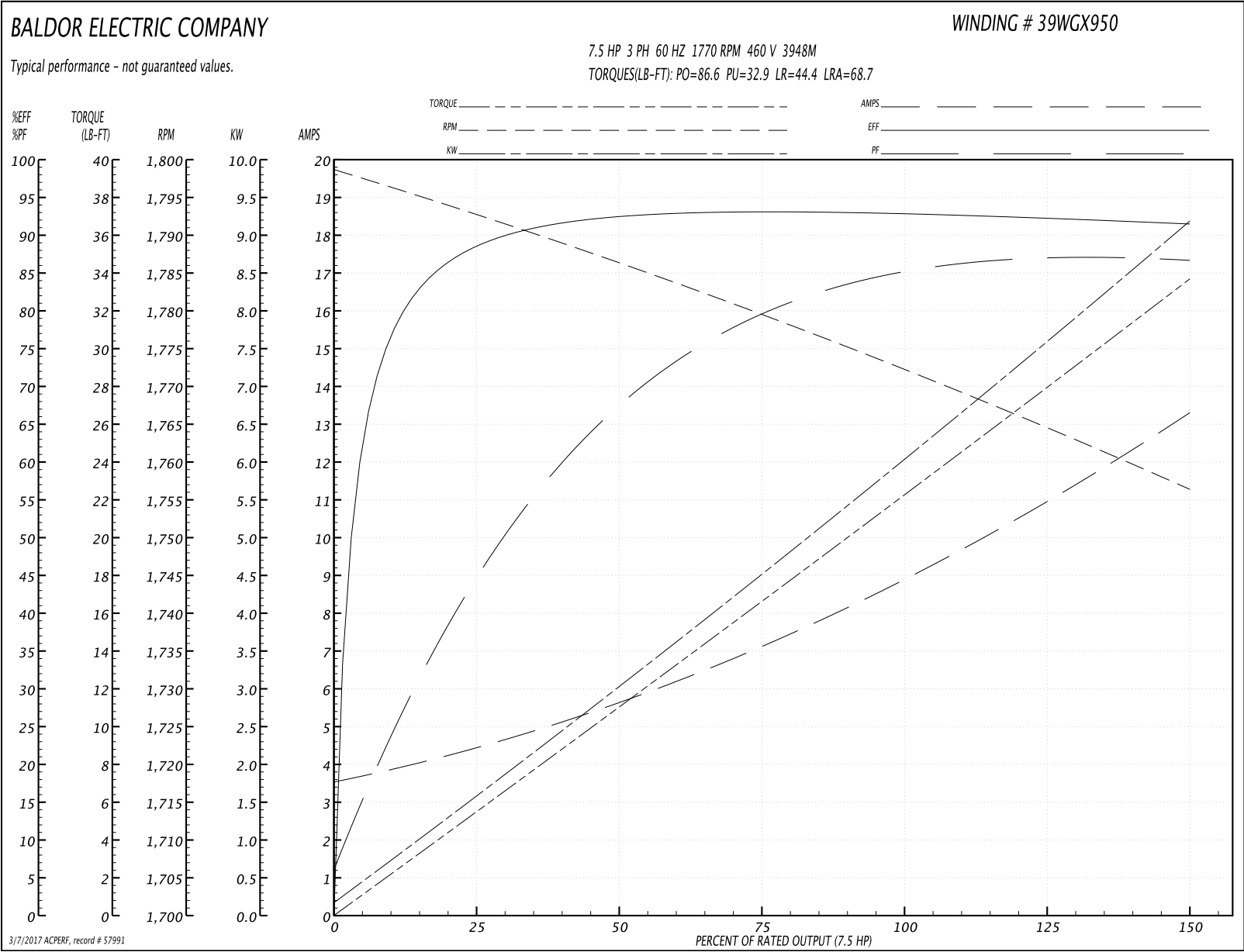
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 39WGX950-R001 | <b>Type:</b> 3948M | <b>Enclosure:</b> TENV |
|-------------------------------|--------------------|------------------------|

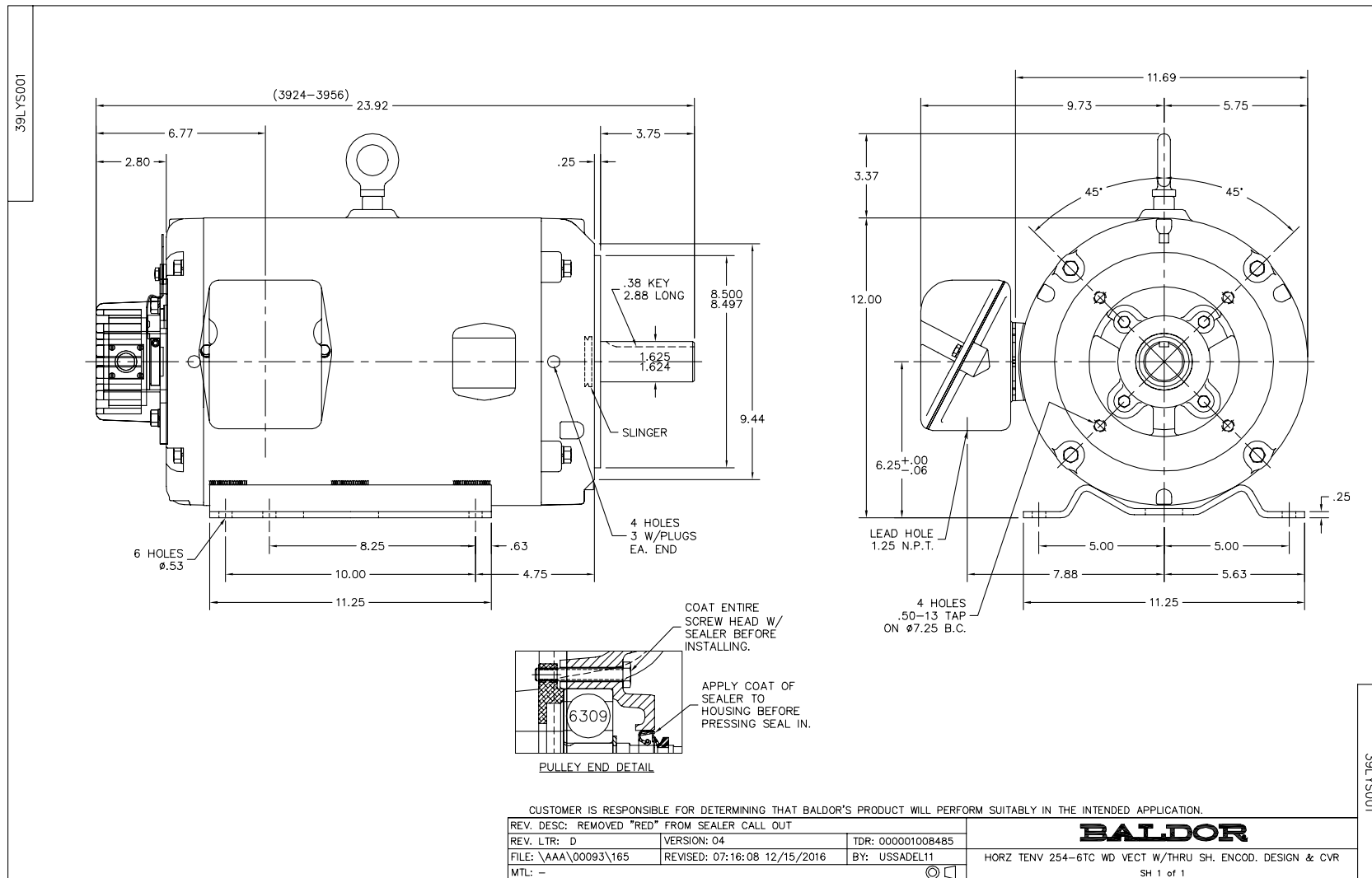
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>High Voltage Connection |                |
|-----------------------|--------------|--------------|----|------------------------------------------|----------------|
| Rated Output (HP)     | 7.5          |              |    | Full Load Torque                         | 22.1 LB-FT     |
| Volts                 | 230/460      |              |    | Start Configuration                      | direct on line |
| Full Load Amps        | 17.8/8.9     |              |    | Breakdown Torque                         | 86.6 LB-FT     |
| R.P.M.                | 1770         |              |    | Pull-up Torque                           | 32.9 LB-FT     |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                      | 44.4 LB-FT     |
| NEMA Design Code      | A            | KVA Code     | J  | Starting Current                         | 68.7 A         |
| Service Factor (S.F.) | 1            |              |    | No-load Current                          | 3.67 A         |
| NEMA Nom. Eff.        | 91.7         | Power Factor | 84 | Line-line Res. @ 25°C                    | 1.05 Ω         |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load                  | 51°C           |
|                       |              |              |    | Locked-rotor Power Factor                | 32.9           |

## Load Characteristics 460 V, 60 Hz, 7.5 HP

|                 |        |        |        |        |        |        |
|-----------------|--------|--------|--------|--------|--------|--------|
| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    |
| Power Factor    | 46     | 69     | 79     | 84     | 86     | 87     |
| Efficiency      | 88.3   | 92.4   | 93.1   | 93     | 92.4   | 91.5   |
| Speed           | 1792.6 | 1786.1 | 1779.3 | 1772.7 | 1765.1 | 1756.1 |
| Line amperes    | 4.27   | 5.55   | 7.17   | 8.94   | 11     | 13.2   |

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values

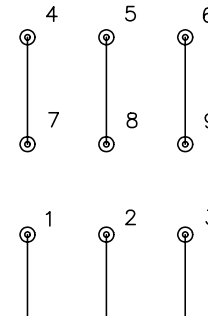




CD0005


 LOW VOLTAGE  
(2Y)


LINE

 HIGH VOLTAGE  
(1Y)


LINE

## NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

9000D0

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005

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