BALDOR® • RELIANCE

# Product Information Packet

# L5002A

## .33HP,1140RPM,1PH,60HZ,56,X3520L,XPFC,F1

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## Part Detail

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Revision:** | AT | **Status:** | PRD/A | **Change #:** | | **Proprietary:** | No |
| **Type:** | AC | **Elec. Spec:** | 35WG0766 | **CD Diagram:** | CD0008 | **Mfg Plant:** | |
| **Mech. Spec:** | 35E353 | **Layout:** | 35LYE353 | **Poles:** | 06 | **Created Date:** | |
| **Base:** | RG | **Eff. Date:** | 07-22-2015 | **Leads:** | 6#18,1#16 #4TH | | |

## Specs

| | | | |
|---|---|---|---|
| **Catalog Number:** | L5002A | **Inverter Code:** | Not Inverter |
| **Enclosure:** | XPFC | **KVA Code:** | K |
| **Frame:** | 56 | **Lifting Lugs:** | No Lifting Lugs |
| **Frame Material:** | Steel | **Locked Bearing Indicator:** | No Locked Bearing |
| **Output @ Frequency:** | .330 HP @ 60 HZ | **Motor Lead Quantity/Wire Size:** | 6 @ 18 AWG |
| **Synchronous Speed @ Frequency:** | 1200 RPM @ 60 HZ | **Motor Lead Exit:** | Ko Box |
| **Voltage @ Frequency:** | 230.0 V @ 60 HZ | **Motor Lead Termination:** | Flying Leads |
| | 115.0 V @ 60 HZ | **Motor Type:** | 3520L |
| **XP Class and Group:** | CLI GP D; CLII GP F,G | **Mounting Arrangement:** | F1 |
| **XP Division:** | Division I | **Power Factor:** | 56 |
| **Agency Approvals:** | CSA | **Product Family:** | General Purpose |
| | UL | **Pulley End Bearing Type:** | Ball |
| | UR | **Pulley Face Code:** | Standard |
| **Auxillary Box:** | No Auxillary Box | **Pulley Shaft Indicator:** | Standard |
| **Auxillary Box Lead Termination:** | None | **Rodent Screen:** | None |
| **Base Indicator:** | Rigid | **Shaft Extension Location:** | Pulley End |
| **Bearing Grease Type:** | Polyrex EM (-20F +300F) | **Shaft Ground Indicator:** | No Shaft Grounding |
| **Blower:** | None | **Shaft Rotation:** | Reversible |

| | | | |
|---|---|---|---|
| **Current @ Voltage:** | 3.400 A @ 230.0 V | **Shaft Slinger Indicator:** | No Slinger |
| | 6.800 A @ 115.0 V | **Speed Code:** | Single Speed |
| **Design Code:** | N | **Motor Standards:** | NEMA |
| **Drip Cover:** | No Drip Cover | **Starting Method:** | Direct on line |
| **Duty Rating:** | CONT | **Thermal Device - Bearing:** | NONE (OLD) |
| **Electrically Isolated Bearing:** | Not Electrically Isolated | **Thermal Device - Winding:** | Do Not Use Eve-Not Valiid |
| **Feedback Device:** | NO FEEDBACK | **Vibration Sensor Indicator:** | No Vibration Sensor |
| **Front Face Code:** | Standard | **Winding Thermal 1:** | Automatic Thermal Overload |
| **Front Shaft Indicator:** | None | **Winding Thermal 1 Location:** | SB |
| **Heater Indicator:** | No Heater | **Winding Thermal 2:** | None |
| **Insulation Class:** | B | **XP Temp Code:** | T4 |

## Nameplate NP0016XPSL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NO. | | CC | | | | | |
| SER. | | | | | | | |
| SPEC. | 35E353-766 | | | | | | |
| CAT.NO. | L5002A | | | | | | |
| HP | .33 | T. CODE | T4 | | | | |
| VOLTS | 115/230 | | | | | | |
| AMPS | 6.8/3.4 | | | | | | |
| RPM | 1140 | | | | | | |
| HZ | 60 | PH | 1 | CL | B | | |
| SER.F. | 1.00 | DES | N | CODE | K | | |
| RATING | 40C AMB-CONT | | | | | | |
| FRAME | 56 | NEMA-NOM-EFF | 54 | | | | |
| USABLE AT 208V | | PF | 56 | | | | |
| BLANK | | | | | | | |

## Parts List

| Part Number | Description | Quantity |
|---|---|---|
| SA023892 | SA 35E353-766 | 1.000 EA |
| RA019942 | RA 35E353-766 | 1.000 EA |
| TPMRG59RXSP | THERMAL 1PH 0.75 AUT 120C | 1.000 EA |
| EC1189A02SP | 61B2D120189NNBA ELEC CAP, 189-227MFD, 12 | 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 #10 SCREW | 1.000 EA |
| 35EP3700A01SP | FR ENDPLATE, XPFC | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 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 |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 EA |
| 35FH4005A01SP | IEC FH NO GREASER W/PRIMED | 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 |
| MG1025G29 | WILKOFAST, 789.229, DARK CHARCOAL GRAY | 0.017 GA |
| NP0018F | ALUM UL XP CONDUIT BOX NAMEPLATE | 1.000 EA |

## Parts List (continued)

| Part Number | Description | Quantity |
|---|---|---|
| NS2500A06 | INSULATOR,AUTO THER PROT,W/PSA ON 1 SIDE | 1.000 EA |
| HA6001A01 | THERMAL RETAINER (PLATED) | 1.000 EA |
| 51XT0632A06 | 6-32X3/8 TY23 HXWS SLDSR | 2.000 EA |
| HA6003A52 | CLAMP, CAPACITOR, WHITE ZINC PLATED | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 1.000 EA |
| HA3104A06 | THRUBOLT 5/16-18 X 8.50 OHIO ROD | 4.000 EA |
| SP5051A64 | MODEL 35 TORQ STATIONARY SWITCH FOR XP | 1.000 EA |
| LB1118 | LABEL,WARNING (ROLL LABEL) | 1.000 EA |
| LC0008 | 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 (1200/bx) 5/18 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 20952 - Typical performance - not guaranteed values

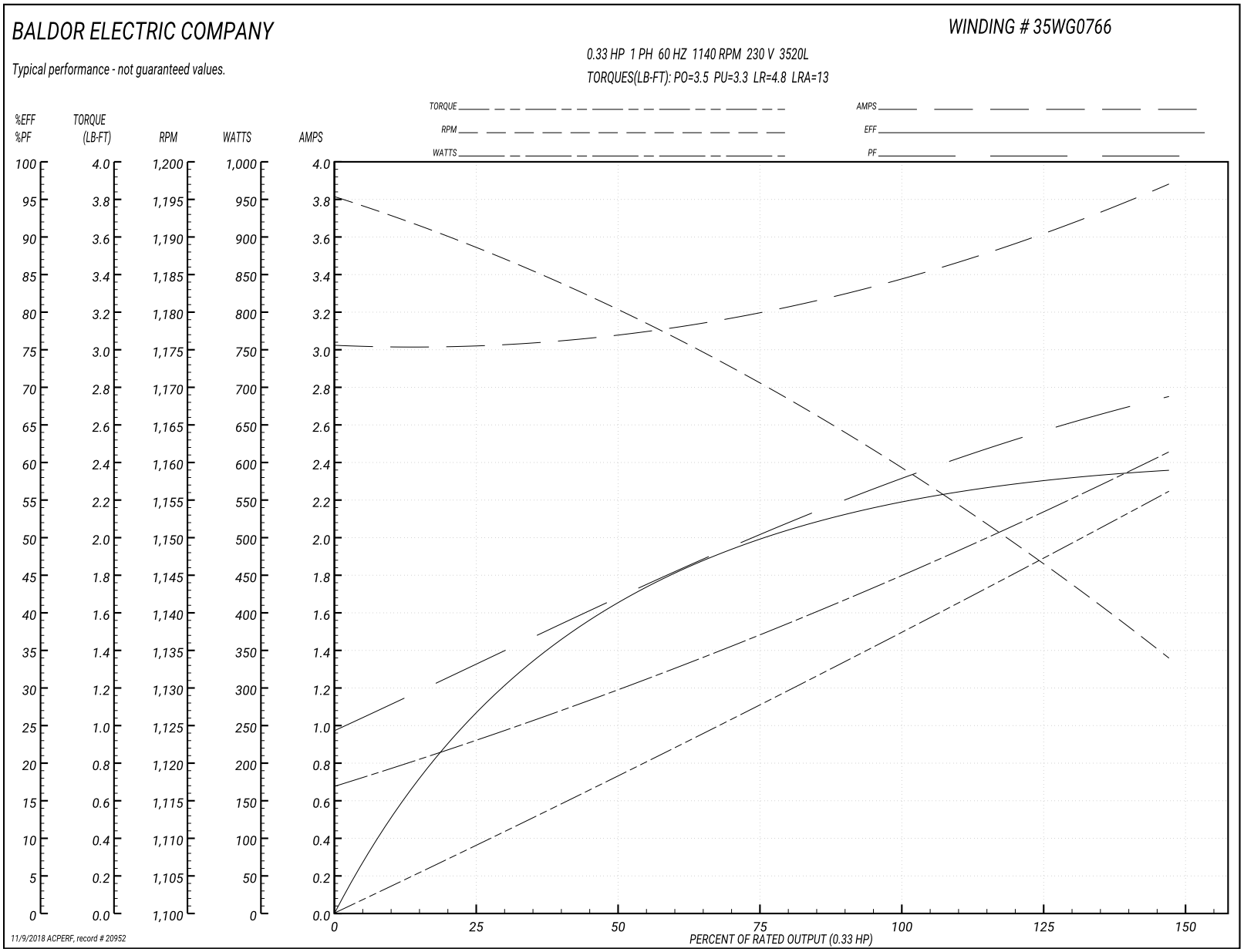
| **Winding:** 35WG0766-R002 | **Type:** 3520L | **Enclosure:** XPFC |
|---|---|---|

| Nameplate Data | | | | 230 V, 60 Hz: High Voltage Connection | |
|---|---|---|---|---|---|
| Rated Output (HP) | .33 | | | Full Load Torque | 1.5 LB-FT |
| Volts | 115/230 | | | Start Configuration | direct on line |
| Full Load Amps | 6.8/3.4 | | | Breakdown Torque | 3.5 LB-FT |
| R.P.M. | 1140 | | | Pull-up Torque | 3.3 LB-FT |
| Hz | 60 | Phase | 1 | Locked-rotor Torque | 4.8 LB-FT |
| NEMA Design Code | N | KVA Code | K | Starting Current | 13 A |
| Service Factor (S.F.) | 1 | | | No-load Current | 3 A |
| NEMA Nom. Eff. | 54 | Power Factor | 56 | Line-line Res. @ 25ºC | 7.76 Ω A Ph<br>4.23 Ω B Ph |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 72°C |

Load Characteristics 230 V, 60 Hz, 0.33 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 |
|---|---|---|---|---|---|---|
| Power Factor | 33 | 42 | 50 | 58 | 64 | 70 |
| Efficiency | 26.8 | 41.5 | 50.1 | 55.2 | 57.8 | 58.7 |
| Speed | 1188 | 1179 | 1170 | 1160 | 1148 | 1133 |
| Line amperes | 3.05 | 3.1 | 3.2 | 3.35 | 3.6 | 3.9 |

Performance Graph at 230V, 60Hz, 0.33HP Typical performance - Not guaranteed values



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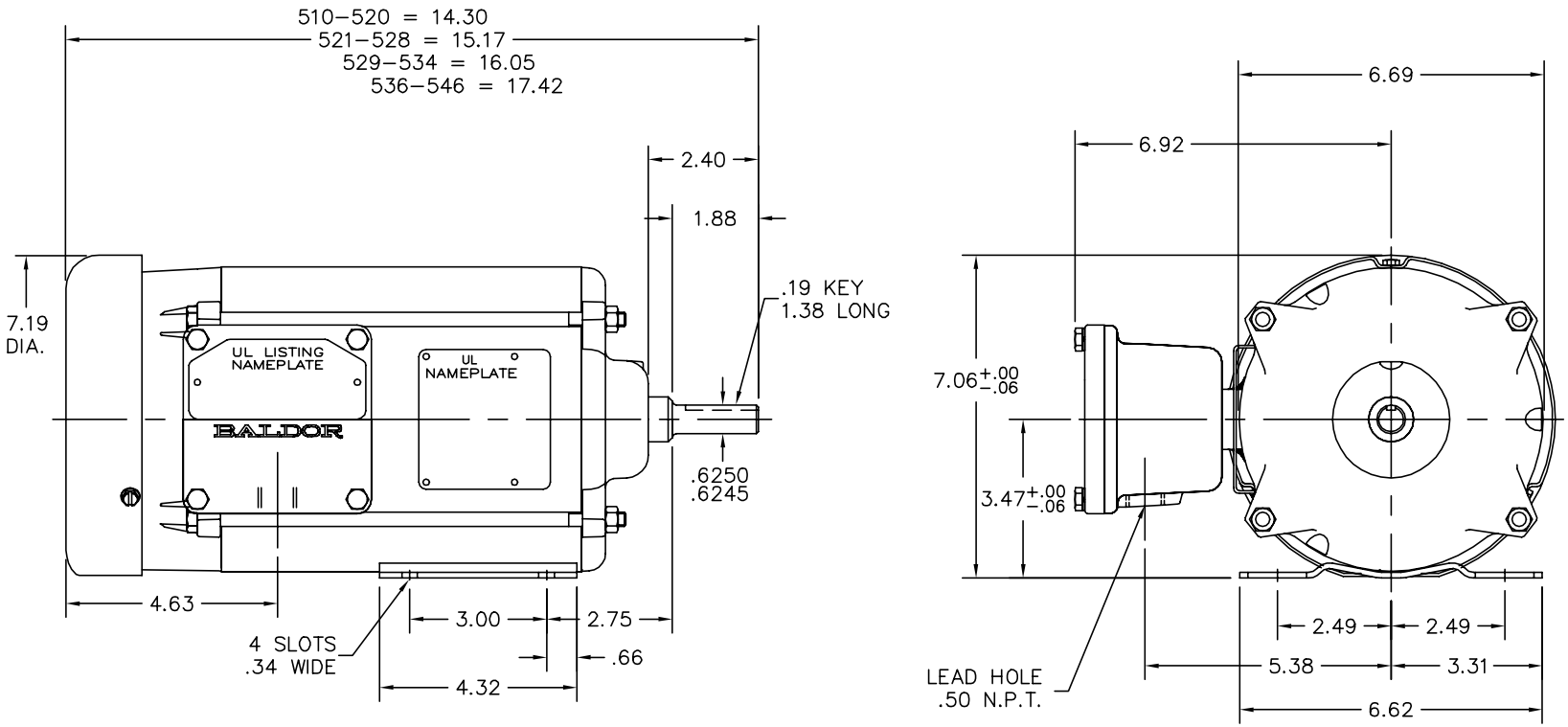


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CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

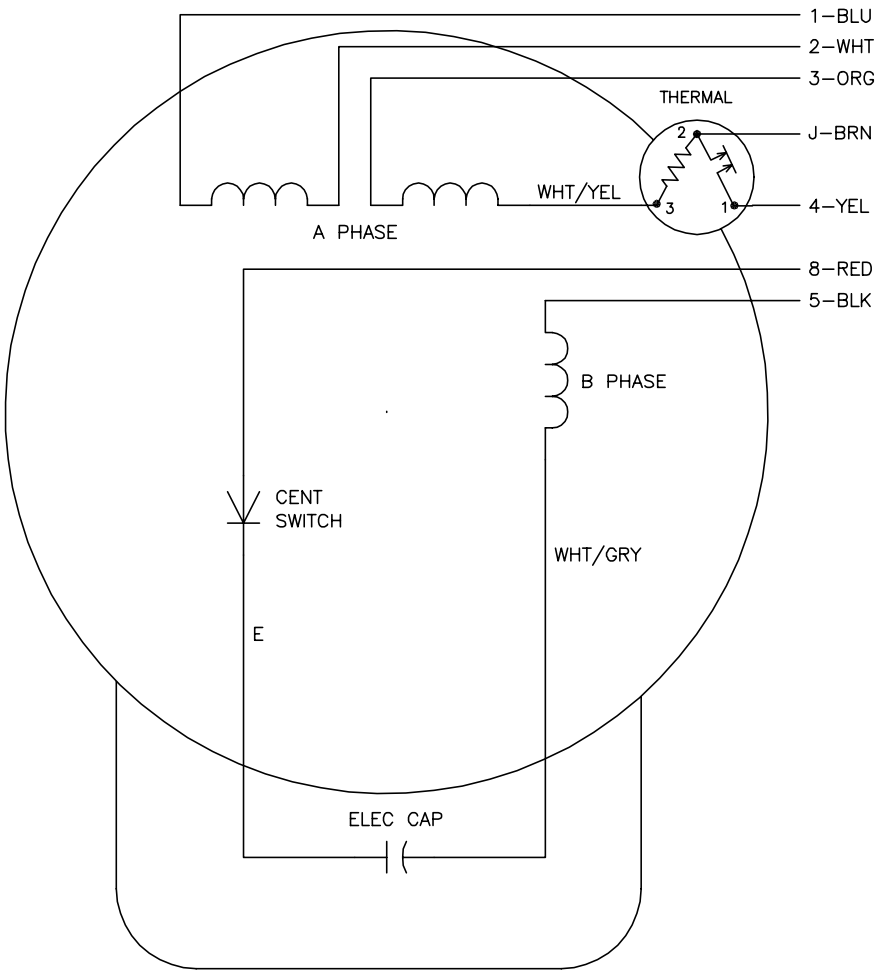
| | | |
|---|---|---|
| REV. DESC: UPDATE DESCRIPTION & CLEAN UP LINES IN LAYOUT | | |
| REV. LTR: G | VERSION: 02 | TDR: 000000995565 |
| FILE: \AAA\00005\186 | REVISED: 10:38:52 09/06/2016 | BY: ENERINO |
| MTL: – | | |

BALDOR

STD HORZ 56 TEFC X35L–LC CL–I GP–D, CL–II GP–F&G

SH 1 of 1

CD0008




| | LINE A | LINE B | JOIN | JOIN |
|---|---|---|---|---|
| HIGH STD | 1 | 4 | 2,3,8 | J,5 |
| HIGH OPP | 1 | 4 | 2,3,5 | J,8 |
| LOW STD | 1,3,8 | 4 | – | 2,J,5 |
| LOW OPP | 1,3,5 | 4 | – | 2,J,8 |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0008A02 | | | BALDOR ELECTRIC Co. |
| REV. LTR: F | VERSION: 01 | TDR: 000000360649 | |
| CD0008 | FILE: \AAA\00007\408 | REVISED: 10:56:54 04/18/2005 | TYPE L, DV, REV, THERMAL, 7 LEADS |
| | MTL: – | BY: ENJOEPO | |

CD0008