ABB BALDOR RELIANCE

# Customer information packet

## L1410TM

5HP, 1725RPM, 1PH, 60HZ, 184T, 3640LC, OPEN, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPEN |
| **Frame** | 184T |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Cap Start, Cap Run |
| **Output @ Frequency** | 5.000 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| **Agency Approvals** | C UR US |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 23.000 A @ 230.0 V<br>25.000 A @ 208.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 82.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 23.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |

## Part Detail

| | |
|---|---|
| **Revision** | AZ |
| **Type** | AC |
| **Mech. spec.** | 36F009 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGW903 |
| **Layout** | 36LYF009 |
| **Eff. date** | 05-09-2024 |
| **CD Diagram** | CD0002A04 |
| **Poles** | 04 |
| **Leads** | 2#10 A PH,3#16 B&J |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **KVA Code** | G |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 2 @ 10 AWG, A PH |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3640LC |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 16.50 IN |
| **Power Factor** | 87 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1725 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Do Not Use |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | Manual Thermal Overload |
| **Winding Thermal 1 Location** | KO |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1257L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | L1410TM | | | | | | | | | | |
| **SPEC.** | 36F09W903 | | | | | | | | | | |
| **HP** | 5 | | | | | | | | | | |
| **VOLTS** | 230 | | | | | | | | | | |
| **AMP** | 23 | | | | | | | | | | |
| **RPM** | 1725 | | | | | | | | | | |
| **FRAME** | 184T | | | **HZ** | 60 | | **PH** | 1 | | | |
| **SER.F.** | 1.15 | **CODE** | G | **DES** | L | **CL** | F | | | | |
| **NEMA-NOM-EFF** | 82.5 | **PF** | 87 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | | | | | | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | | | | |
| **ENCL** | OPEN | **SN** | | | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 36-3403 | C FACE KIT | A8 |
| 36EP1405A09SP | D-FLANGE KIT | |

**AC Induction Motor Performance Data**
Record # 10877
Typical performance - not guaranteed values

| **Winding:** 36WGW903-R001 | **Type:** 3640LC | **Enclosure:** OPEN |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 | **Full Load Torque** | 15 LB-FT |
| **Volts** | | | 230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 23 | **Breakdown Torque** | 34 LB-FT |
| **R.P.M.** | | | 1725 | **Pull-up Torque** | 28 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 41 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | G | **Starting Current** | 140 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 8.4 A |
| **NEMA Nom. Eff.** | 82.5 | **Power Factor** | 87 | **Line-line Res. @ 25ºC** | 0.45 Ω A Ph<br>1.56 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 90°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 110°C |

**Load Characteristics 230 V, 60 Hz, 5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 60 | 78 | 86 | 89 | 91 | 91 | 0 |
| **Efficiency** | 67.2 | 79.2 | 82.7 | 83 | 81.5 | 78.5 | 0 |
| **Speed** | 1786 | 1772 | 1756 | 1739 | 1718 | 1691 | 0 |
| **Line amperes** | 10.1 | 13.2 | 17.2 | 21.9 | 27.4 | 34 | 25.2 |

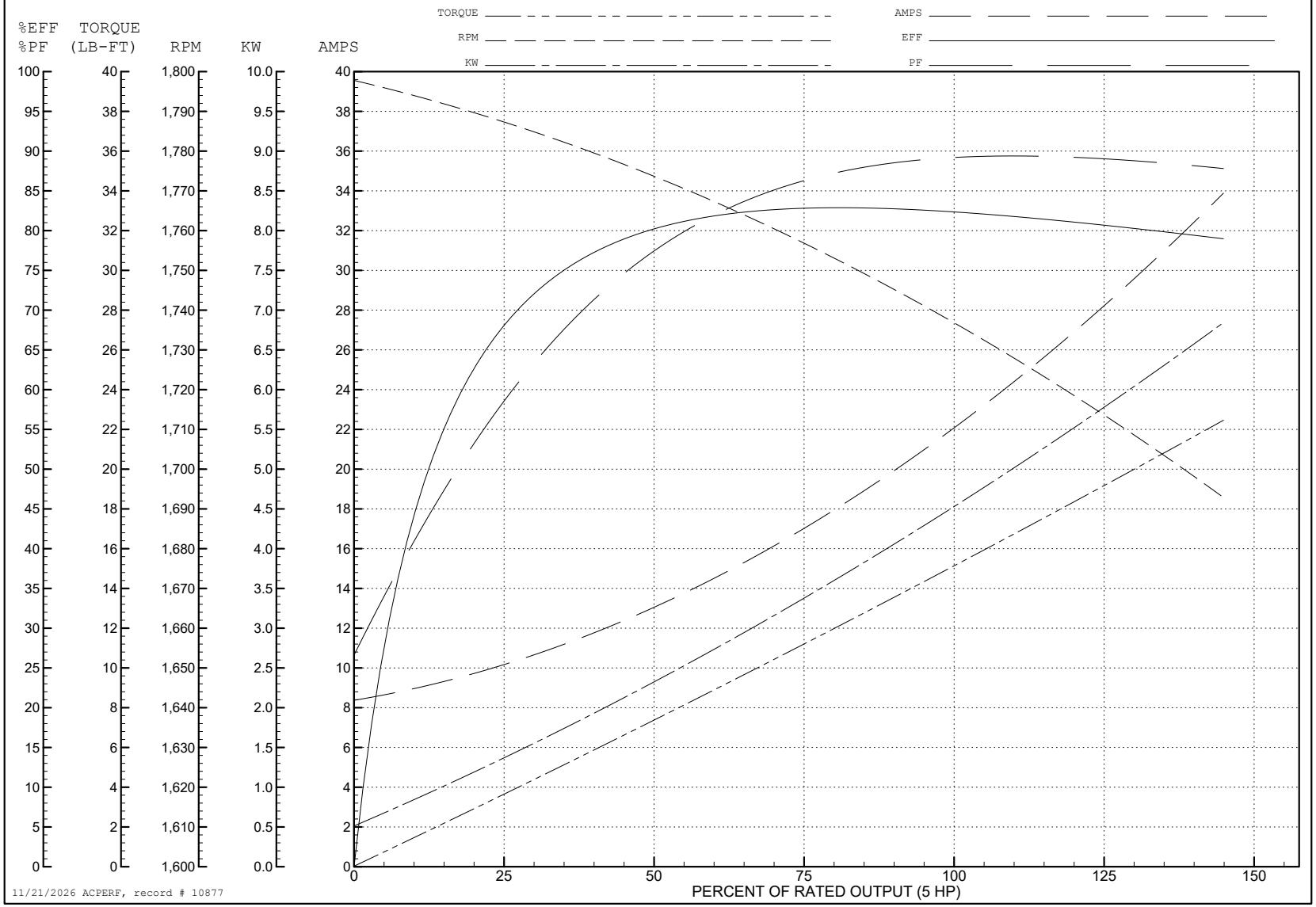
ABB Motors and Mechanical Inc.

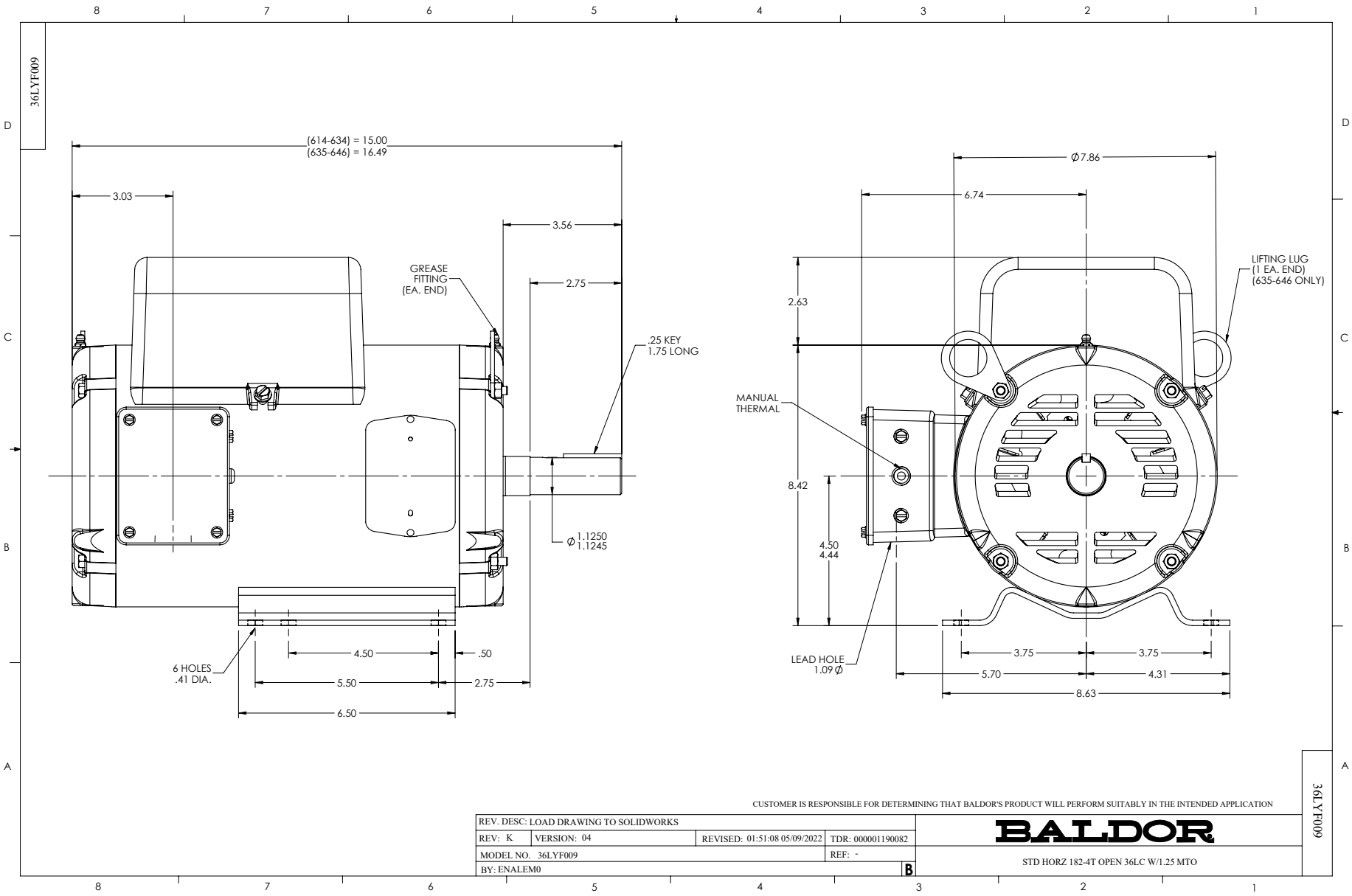
WINDING # 36WGW903

5 HP 1 PH 60 HZ 1725 RPM 230 V 3640LC

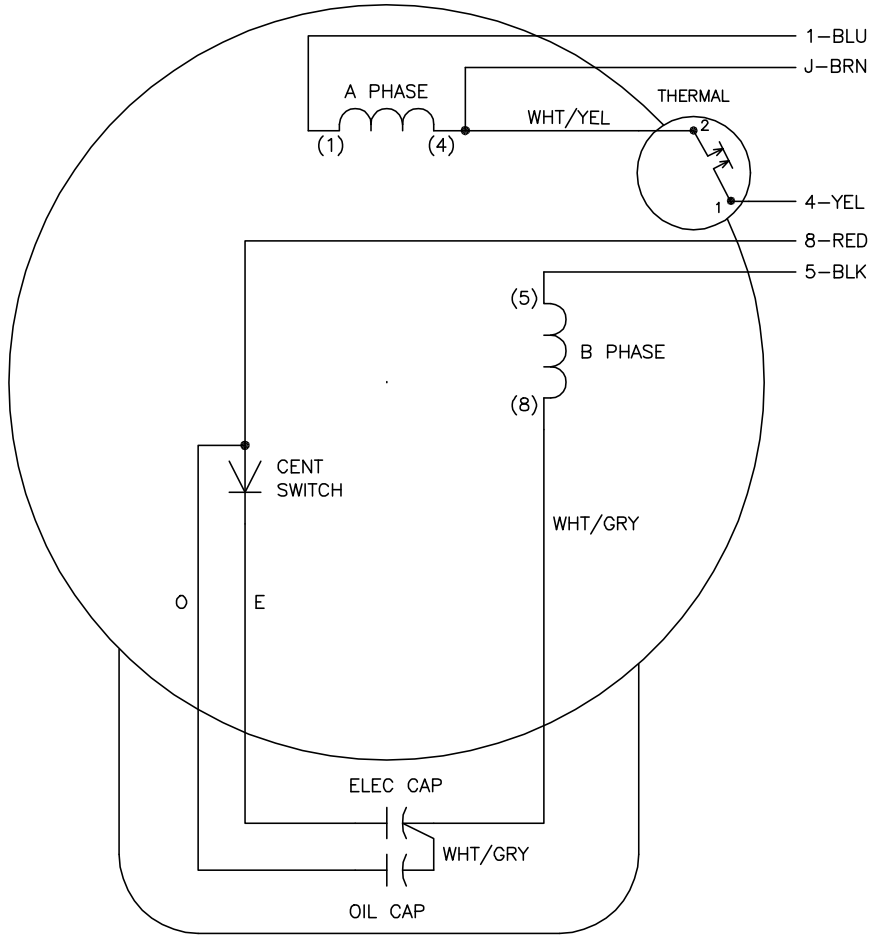
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=34 PU=28 LR=41 LRA=140




36LYF009
(614-634) = 15.00
(635-646) = 16.49
3.03
3.56
2.75
GREASE FITTING (EA. END)
.25 KEY 1.75 LONG
Ø 1.1250 1.1245
6 HOLES .41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.86
6.74
LIFTING LUG (1 EA. END) (635-646 ONLY)
2.63
MANUAL THERMAL
8.42
4.50 4.44
LEAD HOLE 1.09 Ø
3.75
3.75
5.70
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: K
VERSION: 04
REVISED: 01:51:08 05/09/2022
TDR: 000001190082
MODEL NO. 36LYF009
REF: -
BY: ENALEM0
B
BALDOR
STD HORZ 182-4T OPEN 36LC W/1.25 MTO
36LYF009

CD0002A04

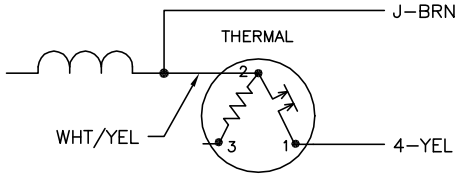



| | LINE A | LINE B | JOIN |
|---|---|---|---|
| STD | 1,8 | 4 | J,5 |
| OPP | 1,5 | 4 | J,8 |

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.

BYPASSING THE HEATER OF A THREE–TERMINAL THERMAL




| | | | |
|---|---|---|---|
| REV. DESC: NEW | | | BALDOR ELECTRIC Co. |
| REV. LTR: – | VERSION: 00 | TDR: 000000360649 | |
| CD0002A04 | FILE: \AAA\00126\009 | REVISED: 17:08:44 04/15/2005 | TYPE LC, SV, REV, 2–TERMINAL THERMAL, 5 LEADS |
| | MTL: – | BY: ENJOEP0 | |

CD0002A04