ABB BALDOR RELIANCE

# Customer information packet

## CHM344A

.5HP, 1725RPM, 3PH, 60HZ, 48YZ, 3416M, TEAO, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEAO |
| **Frame** | 48YZ |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | .500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| | CSA |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Resilient |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 1.100 A @ 460.0 V |
| | 2.200 A @ 230.0 V |
| | 2.300 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 66.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Resilient Mount |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | N |
| **Type** | AC |
| **Mech. spec.** | 34M250 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGR073 |
| **Layout** | 34LYM250 |
| **Eff. date** | 10-28-2024 |
| **CD Diagram** | CD0007 |
| **Poles** | 04 |
| **Leads** | 12#18 |
| **Proprietary** | False |
| **Created date** | 06-17-2013 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 1.1 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | M |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Terminal Panel Or Lead Hole |
| **Motor Lead Quantity/Wire Size** | 12 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3416M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.34 IN |
| **Power Factor** | 63 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Resilient Mount |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.25 |
| **Shaft Diameter** | 0.500 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** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | Automatic Thermal Overload |

| **Winding Thermal 1 Location** | SB |
|---|---|

**Nameplate**

| | NP1257L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CHM344A | | | | | | | | | | | |
| **SPEC.** | 34M250R073G1 | | | | | | | | | | | |
| **HP** | .5 | | | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | | | |
| **AMP** | 2.2/1.1 | | | | | | | | | | | |
| **RPM** | 1725 | | | | | | | | | | | |
| **FRAME** | 48YZ | | | **HZ** | 60 | | | **PH** | 3 | | | |
| **SER.F.** | 1.25 | **CODE** | M | **DES** | B | **CL** | B | | | | | |
| **NEMA-NOM-EFF** | 66 | **PF** | 63 | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | | |
| **CC** | | | | | | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | | | | | |
| **ENCL** | TEAO | **SN** | | | | | | | | | | |
| | SFA 2.4/1.2 | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 42463
Typical performance - not guaranteed values

| **Winding:** 34WGR073-R001 | **Type:** 3416M | **Enclosure:** TEAO |
|---|---|---|

| **Nameplate Data** | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|
| **Rated Output (HP)** | | .5 AIR OVER | **Full Load Torque** | 1.53 LB-FT |
| **Volts** | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | 2.2/1.1 | **Breakdown Torque** | 6.36 LB-FT |
| **R.P.M.** | | 1725 | **Pull-up Torque** | 4.73 LB-FT |
| **Hz** | 60 **Phase** | 3 | **Locked-rotor Torque** | 5.62 LB-FT |
| **NEMA Design Code** | B **KVA Code** | M | **Starting Current** | 6.84 A |
| **Service Factor (S.F.)** | | 1.25 | **No-load Current** | 0.883 A |
| **NEMA Nom. Eff.** | 66 **Power Factor** | 63 | **Line-line Res. @ 25ºC** | 34.071 Ω |
| **Rating - Duty** | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | |
| **S.F. Amps** | | 2.4/1.2 | **Temp. Rise @ S.F. Load** | |
| | | | **Locked-rotor Power Factor** | 66 |
| | | | **Rotor inertia** | 0.0381 LB-FT2 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 32 | 45 | 54 | 63 | 69 | 74 | 69 |
| **Efficiency** | 41.7 | 55.9 | 63.3 | 67 | 69.3 | 69.8 | 69.3 |
| **Speed** | 1781.1 | 1767.1 | 1754.9 | 1739.5 | 1725.4 | 1709 | 1725 |
| **Line amperes** | 0.899 | 0.954 | 1.03 | 1.12 | 1.22 | 1.34 | 1.22 |

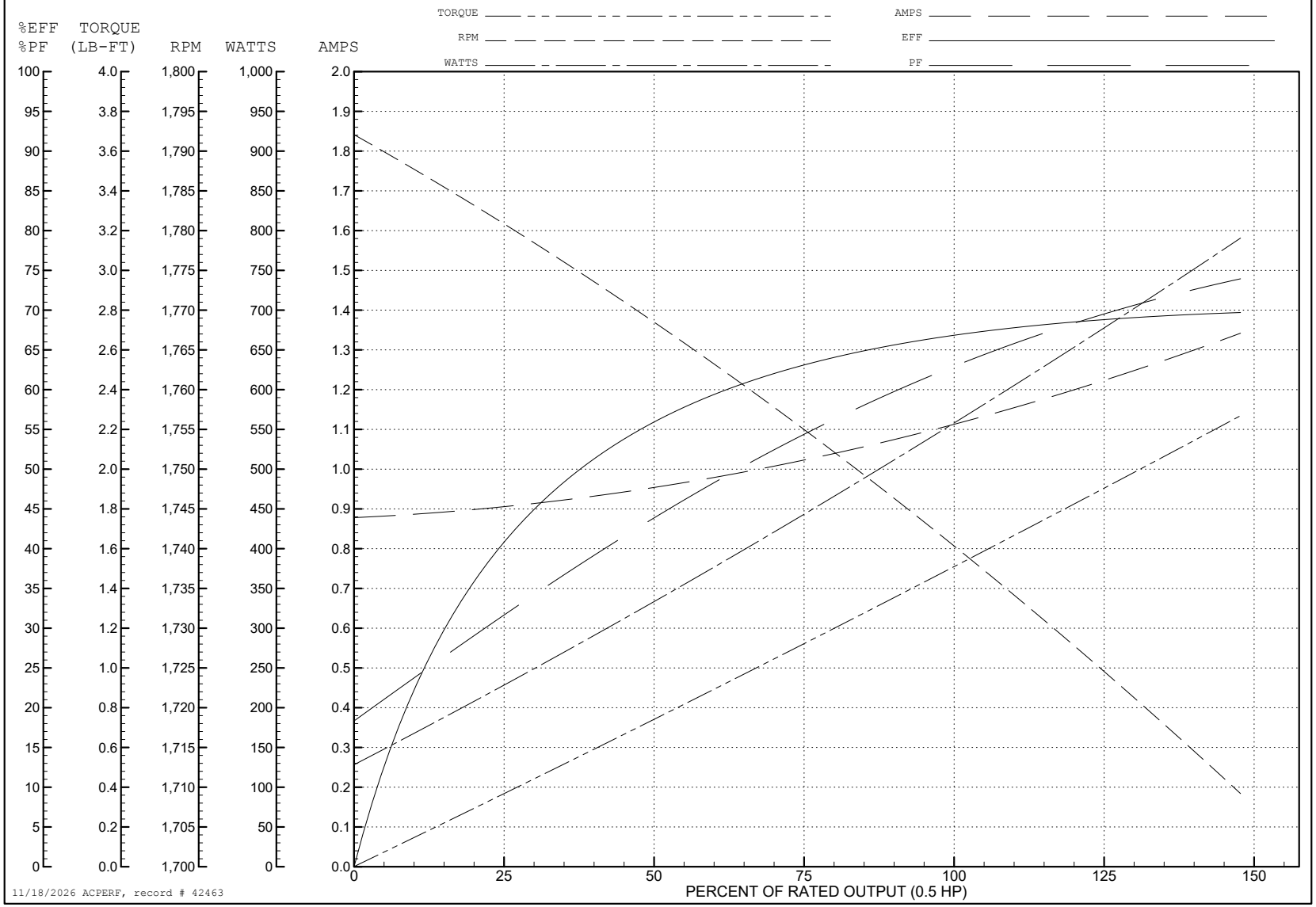
ABB Motors and Mechanical Inc.

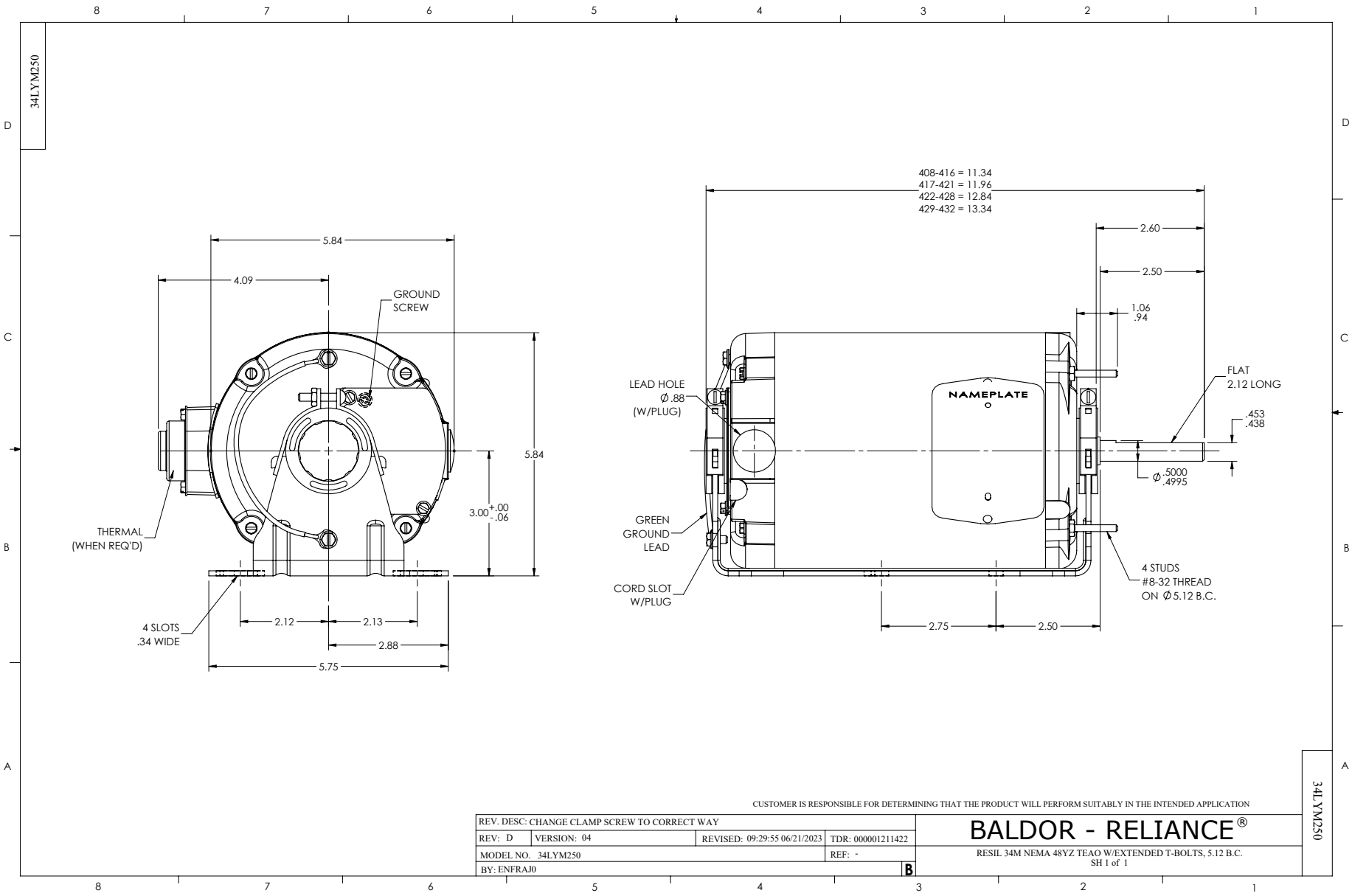
WINDING # 34WGR073

0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3416M

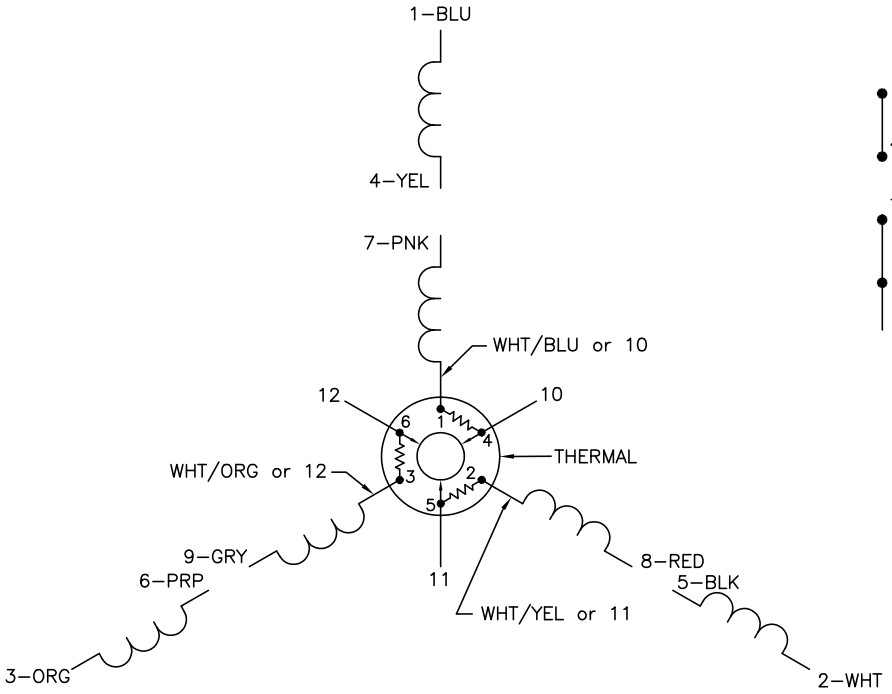
Typical performance - not guaranteed values.

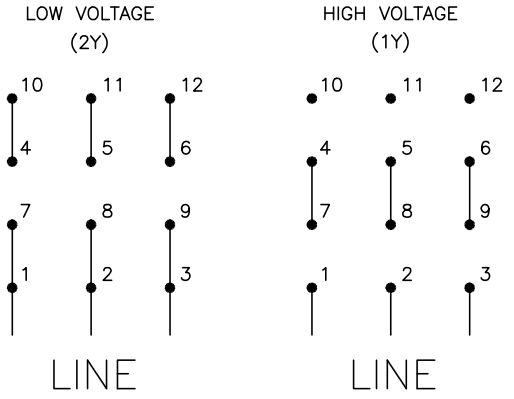
TORQUES(LB-FT): PO=6.36 PU=4.73 LR=5.62 LRA=6.84




34LYM250
5.84
4.09
GROUND SCREW
5.84
3.00 +.00 -.06
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.12
2.13
2.88
5.75
408-416 = 11.34
417-421 = 11.96
422-428 = 12.84
429-432 = 13.34
2.60
2.50
1.06 .94
LEAD HOLE Ø.88 (W/PLUG)
NAMEPLATE
FLAT 2.12 LONG
.453 .438
Ø .5000 .4995
GREEN GROUND LEAD
CORD SLOT W/PLUG
4 STUDS #8-32 THREAD ON Ø5.12 B.C.
2.75
2.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: D
VERSION: 04
REVISED: 09:29:55 06/21/2023
TDR: 000001211422
MODEL NO. 34LYM250
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL 34M NEMA 48YZ TEAO W/EXTENDED T-BOLTS, 5.12 B.C.
SH 1 of 1
34LYM250

CD0007




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: ADDED "CK" PLANT CODE | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: EAH | REVISED: 05/06/99 17:1 | TDR: 0181040 |
| CD0007 | | FILE: AAA00008370 | MDL: – |
| | | MTL: – | 3PH, DV, THERMAL, 12 LEADS |

CD0007