ABB BALDOR RELIANCE

# Customer information packet

## CL3711T

10HP, 3450RPM, 1PH, 60HZ, 215TC, 3744LC, TEFC
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 215TC |
| **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** | 10.000 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 208.0 V @ 60 HZ |
| | 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** | 40.000 A @ 230.0 V |
| | 43.000 A @ 208.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 82.0 % |
| **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** | 40.0 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | AS |
| **Type** | AC |
| **Mech. spec.** | 37F395 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 37WGW578 |
| **Layout** | 37LYF395 |
| **Eff. date** | 05-10-2024 |
| **CD Diagram** | CD0086 |
| **Poles** | 02 |
| **Leads** | 2#10 A PH,2#14 B PH |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Inverter Code** | Not Inverter |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | 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** | 3744LC |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 19.75 IN |
| **Power Factor** | 98 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 1.375 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3450 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** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1256L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CL3711T | | | | | | | | |
| **SPEC.** | 37F395W578 | | | | | | | | |
| **HP** | 10 | | | | | | | | |
| **VOLTS** | 208-230 | | | | | | | | |
| **AMP** | 43-40 | | | | | | | | |
| **RPM** | 3450 | | | | | | | | |
| **FRAME** | 215TC | **HZ** | 60 | | | **PH** | 1 | | |
| **SER.F.** | 1.00 | **CODE** | H | **DES** | L | **CLASS** | F | | |
| **NEMA-NOM-EFF** | 82 | **PF** | 98 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6307 | **ODE** | 6206 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |

**AC Induction Motor Performance Data**
Record # 68813
Typical performance - not guaranteed values

| **Winding:** 37WGW578-R004 | **Type:** 3744LC | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 10 | **Full Load Torque** | 15.12 LB-FT |
| **Volts** | | | 208-230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 43-40 | **Breakdown Torque** | 54.9 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 27.5 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 41.7 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | H | **Starting Current** | 264 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 4.78 A |
| **NEMA Nom. Eff.** | 82 | **Power Factor** | 98 | **Line-line Res. @ 25ºC** | 0.17816 Ω A Ph<br>0.74071 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 97°C |

**Load Characteristics 230 V, 60 Hz, 10 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 98 | 100 | 100 | 99 | 97 | 96 |
| **Efficiency** | 74.5 | 83.9 | 84.3 | 83.7 | 81.3 | 77.8 |
| **Speed** | 3570.1 | 3541.3 | 3511.9 | 3473.8 | 3425.9 | 3363.7 |
| **Line amperes** | 10.8 | 19.5 | 28.1 | 39.3 | 51.6 | 65.4 |

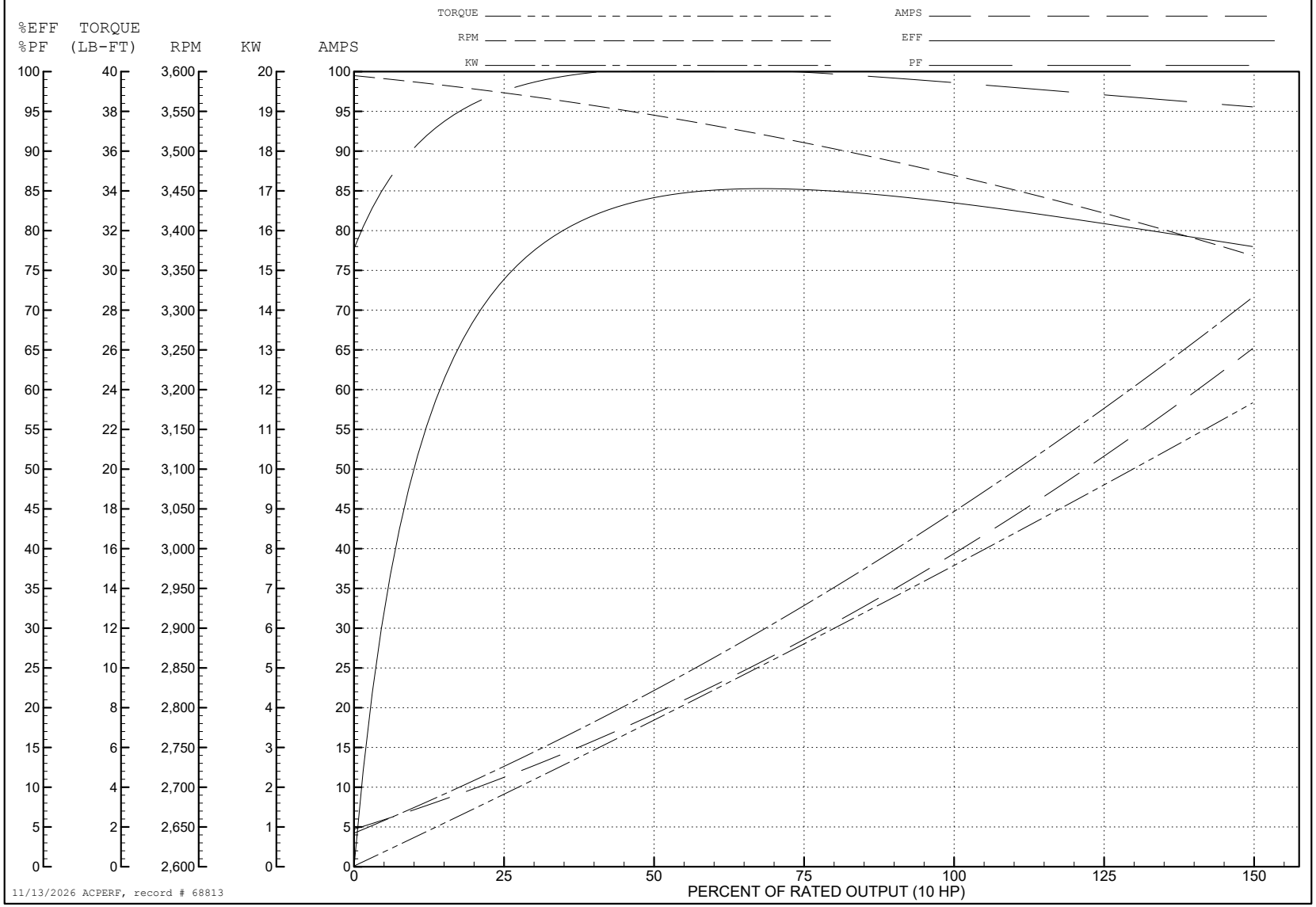
ABB Motors and Mechanical Inc.

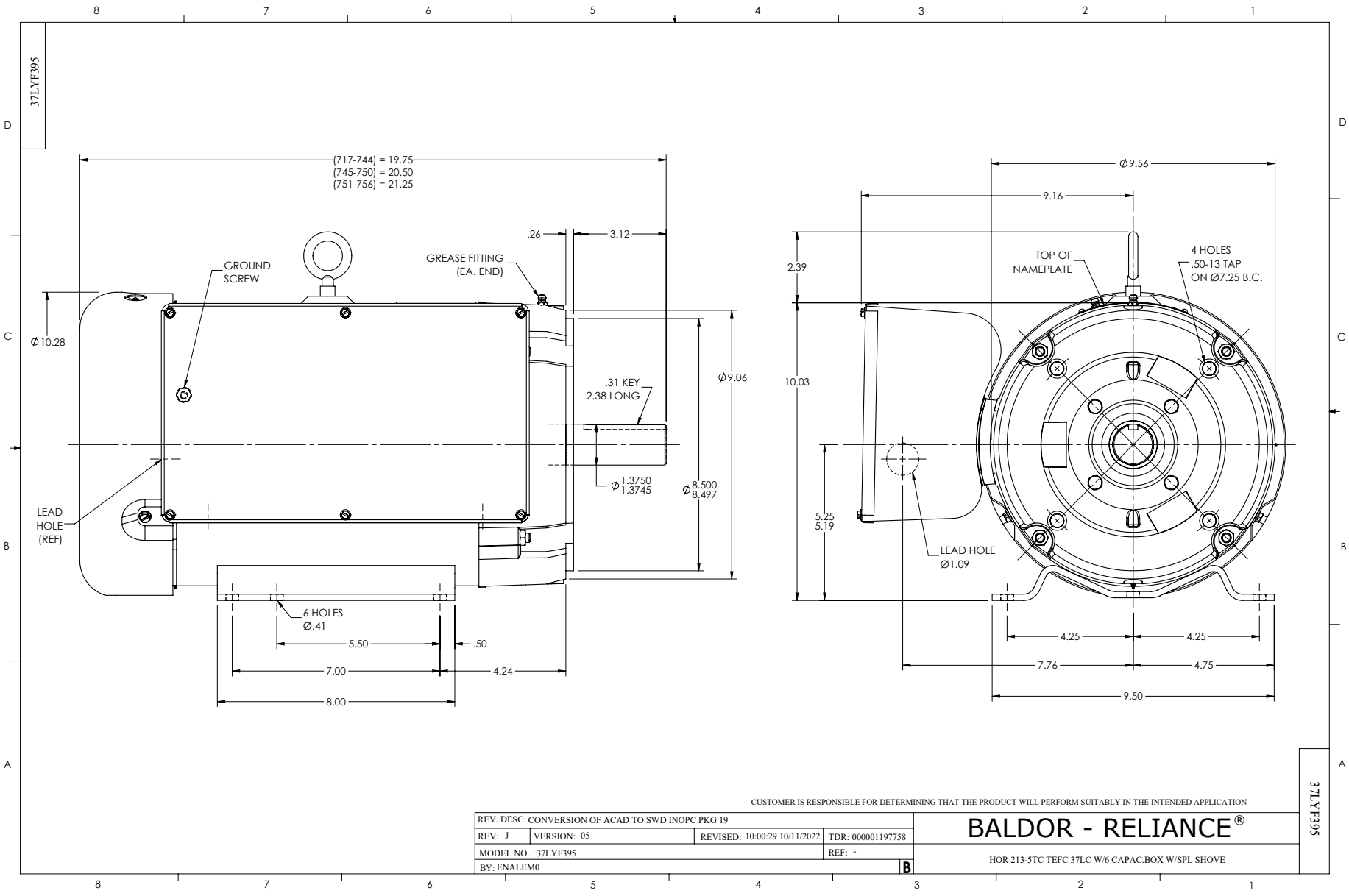
WINDING # 37WGW578

10 HP 1 PH 60 HZ 3450 RPM 230 V 3744LC

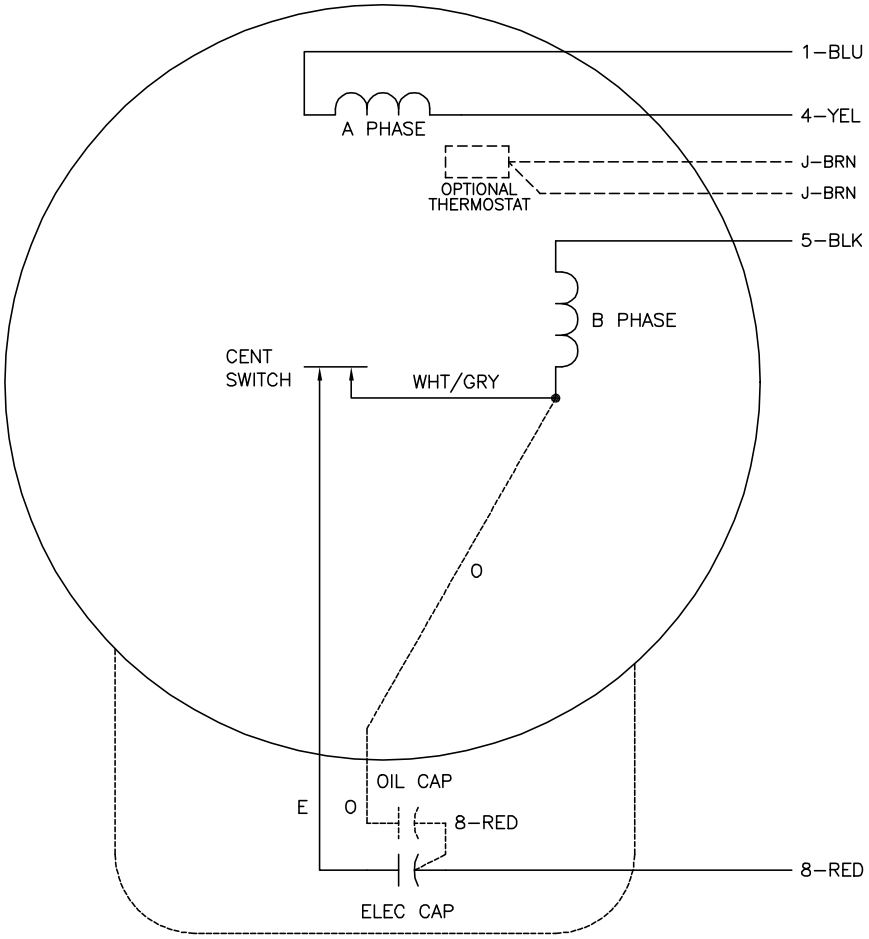
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=54.9 PU=27.5 LR=41.7 LRA=264




37LYF395
(717-744) = 19.75
(745-750) = 20.50
(751-756) = 21.25
.26
3.12
GROUND SCREW
GREASE FITTING (EA. END)
Ø10.28
.31 KEY
2.38 LONG
Ø9.06
Ø1.3750
1.3745
Ø8.500
8.497
LEAD HOLE (REF)
6 HOLES Ø.41
5.50
.50
7.00
4.24
8.00
Ø9.56
9.16
2.39
TOP OF NAMEPLATE
4 HOLES .50-13 TAP ON Ø7.25 B.C.
10.03
5.25
5.19
LEAD HOLE Ø1.09
4.25
4.25
7.76
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: J
VERSION: 05
REVISED: 10:00:29 10/11/2022
TDR: 000001197758
MODEL NO. 37LYF395
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5TC TEFC 37LC W/6 CAPAC.BOX W/SPL SHOVE
37LYF395

CD0086




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

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
5. CAPACITORS MAY BE SEPERATELY MOUNTED.
6. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: ADDED CK TO PLANT CODE | | | BALDOR ELECTRIC Co. |
| REV. LTR: F | BY: JD | REVISED: 16:01:12 01/07/2002 | TDR: 259409 |
| 9800CD | | FILE: AAA00026904 | REF: CD0086 |
| | | MTL: – | TYPE L OR LC, SV, REV, 4 LEADS, CAPS MAY BE SEP MTD |

CD0086