ABB BALDOR RELIANCE

# Customer information packet

JXL050722A

0.75HP, 3500RPM, 1PH, 60HZ, 56J, 3524L, XPFC, F
Class - CLI GP D; CLII GP F,G
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 56J |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP D; CLII GP F,G |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Cap Start, Induction Run |
| **Output @ Frequency** | .750 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 115.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UL |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 4.600 A @ 230.0 V |
| | 9.300 A @ 115.0 V |
| **Design Code** | - |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 66.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T4 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 4.6 a |
| **Insulation Class** | B |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WG0498 |
| **Layout** | 35LYE382 |
| **Eff. date** | 05-01-2024 |
| **CD Diagram** | CD0008 |
| **Poles** | 02 |
| **Leads** | 6#18,1#14 #4TH |
| **Proprietary** | False |
| **Created date** | 03-29-2021 |

| | |
|---|---|
| **Inverter Code** | Not Inverter |
| **IP Rating** | NONE |
| **KVA Code** | N |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3524L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 15.66 IN |
| **Power Factor** | 77 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 3500 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 1 Location** | EP |
| **Winding Thermal 2** | None |

**Nameplate**

| NP0016XPSL | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NO.** | | | **CC** | | | | |
| **SER. #** | | | | | | | |
| **SPEC** | 35-0000-1064 | | | | | | |
| **CAT.NO.** | JXL050722A | | | | | | |
| **H.P.** | .75 | | **T. CODE** | T4 | | | |
| **VOLTS** | 115/230 | | | | | | |
| **AMPS** | 9.3/4.6 | | | | | | |
| **R.P.M.** | 3500 35WG0498 | | | | | | |
| **HZ** | 60 | **PH** | 1 | **CLASS** | B | | |
| **SER.F.** | 1.00 | **DES** | - | **CODE** | N | | |
| **RATING** | 40C AMB-CONT | | | | | | |
| **FRAME** | 56J | | | **NEMA NOM. EFF** | 66 | | |
| | | **PF** | 77 | | | | |
| **BLANK** | NEMA MG-1 PART 5, IP54 | | | | | | |

**AC Induction Motor Performance Data**
Record # 88186
Typical performance - not guaranteed values

| **Winding:** 35WG0498 | **Type:** 3524L | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 0.75 |
| **Volts** | | | 115/230 |
| **Full Load Amps** | | | 9.3/4.6 |
| **R.P.M.** | | | 3500 |
| **Hz** | 60 | **Phase** | 1 |
| **NEMA Design Code** | - | **KVA Code** | N |
| **Service Factor (S.F.)** | | | 1 |
| **NEMA Nom. Eff.** | 66 | **Power Factor** | 77 |
| **Rating - Duty** | | | 40C AMB-CONT |

| **115 V, 60 Hz: Low Voltage Connection** | |
|---|---|
| **Full Load Torque** | 1.12 LB-FT |
| **Start Configuration** | Unknown |
| **Breakdown Torque** | 3.63 LB-FT |
| **Pull-up Torque** | 3.18 LB-FT |
| **Locked-rotor Torque** | 5 LB-FT |
| **Starting Current** | 64.2 A |
| **No-load Current** | 5.62 A |
| **Line-line Res. @ 25ºC** | 0.62 Ω A Ph<br>1.76 Ω B Ph |
| **Temp. Rise @ Rated Load** | 39°C |
| **Locked-rotor Power Factor** | 93.9 |
| **Rotor inertia** | 0.0664 lb-ft² |

**Load Characteristics 115 V, 60 Hz, 0.75 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 49 | 63 | 72 | 79 | 83 | 85 |
| **Efficiency** | 40.9 | 56.5 | 64.3 | 68.3 | 70.4 | 71.1 |
| **Speed** | 3570 | 3552 | 3533 | 3513 | 3491 | 3466 |
| **Line amperes** | 6.11 | 6.87 | 7.88 | 9.08 | 10.5 | 12 |

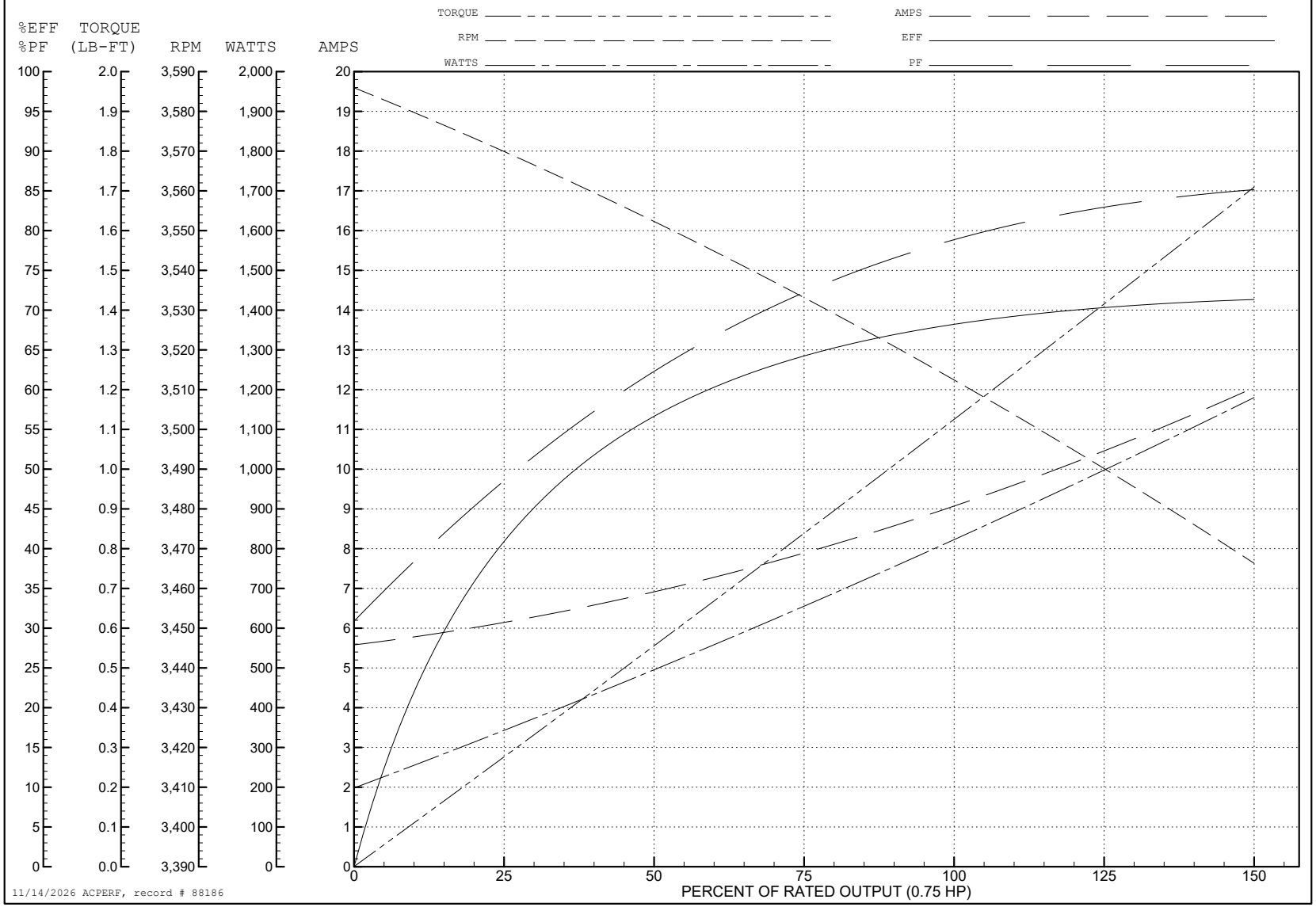
ABB Motors and Mechanical Inc.

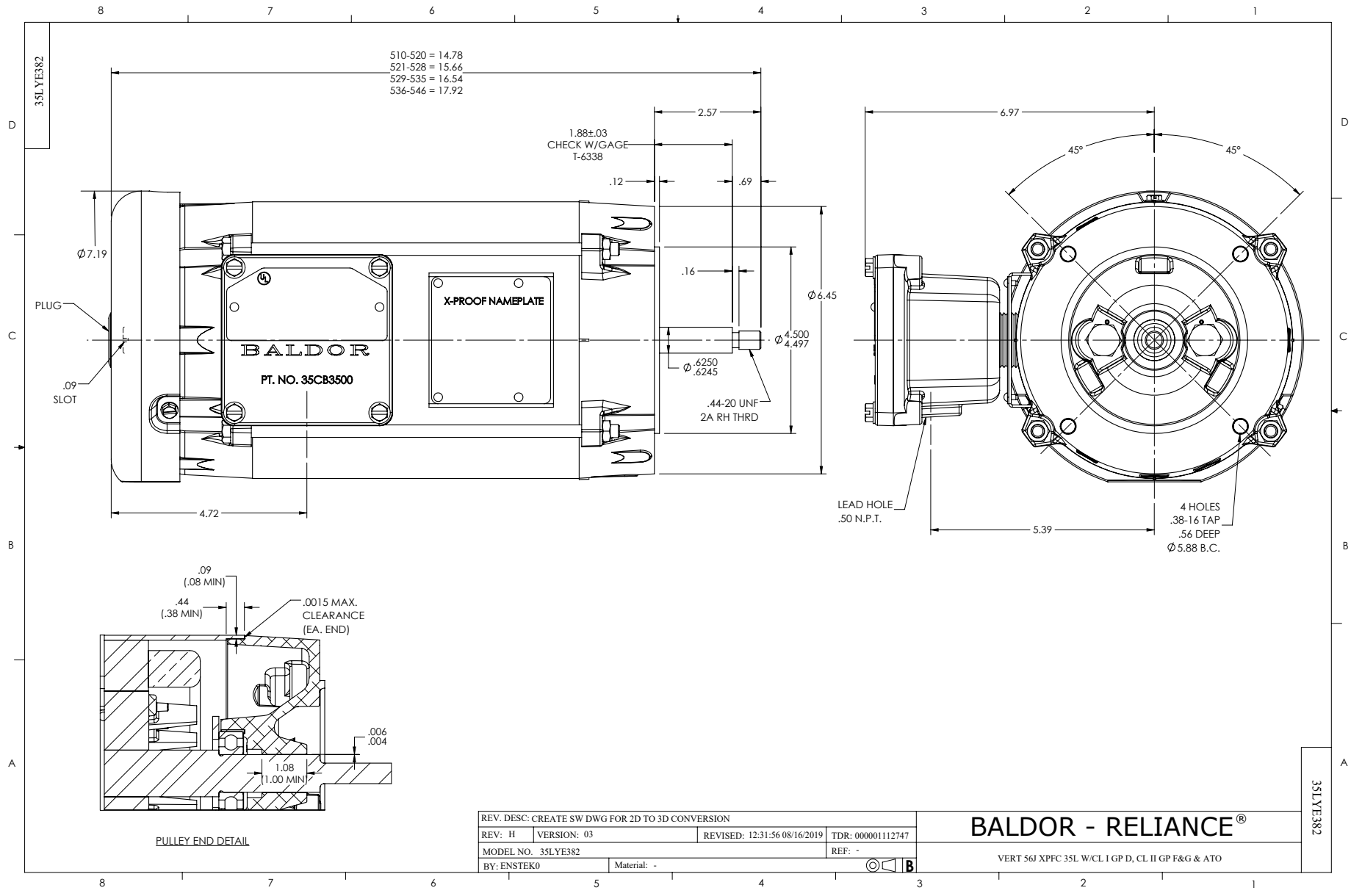
WINDING # 35WG0498

0.75 HP 1 PH 60 HZ 3500 RPM 115 V 3524L

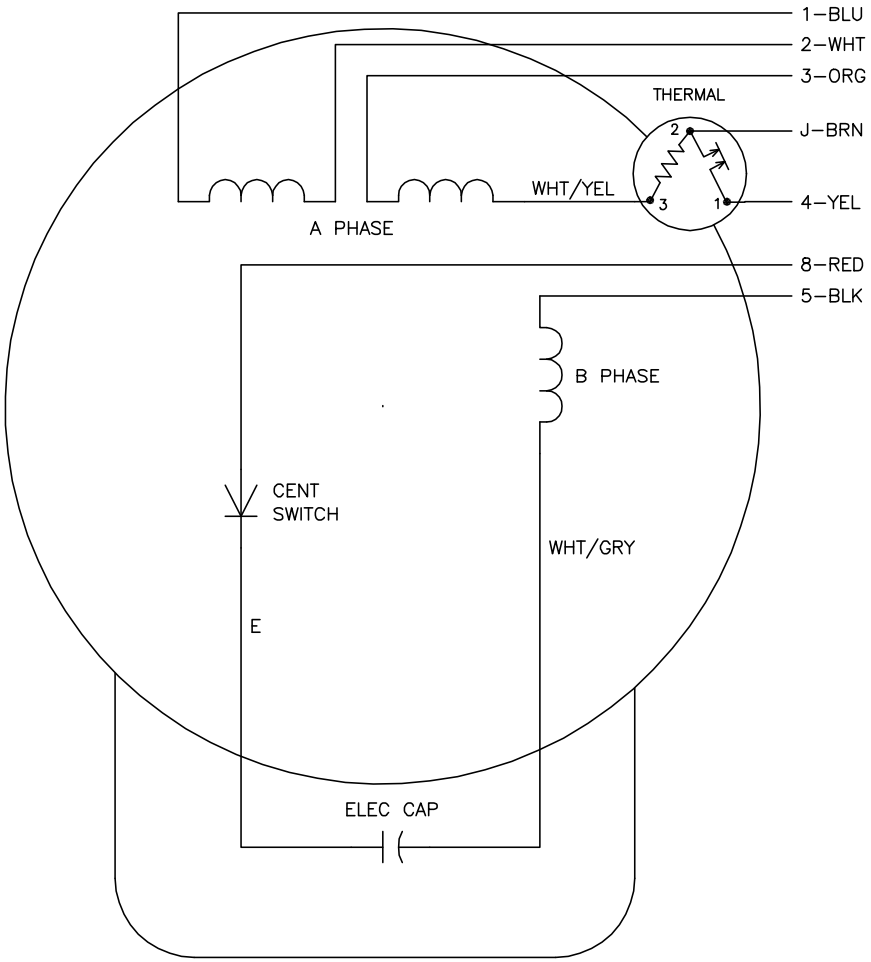
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=3.63 PU=3.18 LR=5 LRA=64.2




35LYE382
510-520 = 14.78
521-528 = 15.66
529-535 = 16.54
536-546 = 17.92
2.57
1.88±.03
CHECK W/GAGE
T-6338
.12
.69
Ø7.19
PLUG
.09
SLOT
.16
Ø6.45
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø.6250
.6245
.44-20 UNF
2A RH THRD
4.72
6.97
45°
45°
LEAD HOLE
.50 N.P.T.
5.39
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
.09
(.08 MIN)
.44
(.38 MIN)
.0015 MAX.
CLEARANCE
(EA. END)
.006
.004
1.08
(1.00 MIN)
PULLEY END DETAIL
REV. DESC: CREATE SW DWG FOR 2D TO 3D CONVERSION
REV: H
VERSION: 03
REVISED: 12:31:56 08/16/2019
TDR: 000001112747
MODEL NO. 35LYE382
REF: -
BY: ENSTEK0
Material: -
B
BALDOR - RELIANCE®
VERT 56J XPFC 35L W/CL I GP D, CL II GP F&G & ATO
35LYE382

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.

CD0008

| | | | |
|---|---|---|---|
| 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: ENJOEP0 | |