ABB BALDOR RELIANCE

# Customer information packet

## EL1410T

5HP, 1735RPM, 1PH, 60HZ, 184T, 3646LC, OPSB, F1
Class - None
Division - Not Applicable

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11/5/2026 11:28:29 AM

## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **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** | CSA EEV |
| | CURUS |
| | CURUSEEV |
| | NEMA PREMIUM (OLD LOGO) |
| | 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** | 19.100 A @ 230.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 86.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | AS |
| **Type** | AC |
| **Mech. spec.** | 36H982 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGY585 |
| **Layout** | 36LYH982 |
| **Eff. date** | 07-21-2025 |
| **CD Diagram** | CD0017A02 |
| **Poles** | 04 |
| **Leads** | 2#10 A PH,2#16 B PH |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 19.1 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **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** | 3646LC |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 18.00 IN |
| **Power Factor** | 97 |
| **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** | 1735 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**

| | NP2116L | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EL1410T | | | | | | | |
| **SPEC.** | 36H982Y585G1 | | | | | | | |
| **HP** | 5 | | | | | | | |
| **VOLTS** | 230 | | | | | | | |
| **AMP** | 19.1 | | | | | | | |
| **RPM** | 1735 | | | | | | | |
| **FRAME** | 184T | **HZ** | 60 | **PH** | 1 | | | |
| **SER.F.** | 1.15 | **CODE** | G | **DES** | L | **CL** | F | |
| **NEMA-NOM-EFF** | 86.5 | **PF** | 97 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | | | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | |
| **ENCL** | OPSB | **SN** | | | | | | |

**Accessories**

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

**AC Induction Motor Performance Data**
Record # 11418
Typical performance - not guaranteed values

| **Winding:** 36WGY585-R001 | **Type:** 3646LC | **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** | | | 19.1 | **Breakdown Torque** | 37 LB-FT |
| **R.P.M.** | | | 1735 | **Pull-up Torque** | 27 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 42 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | G | **Starting Current** | 129 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3.4 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 97 | **Line-line Res. @ 25ºC** | 0.42 Ω A Ph<br>0.89 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 72°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** | 89 | 95 | 96 | 96 | 96 | 95 | 96 |
| **Efficiency** | 69.9 | 83 | 86.6 | 86 | 79.8 | 74.6 | 82.3 |
| **Speed** | 1784 | 1770 | 1754 | 1735 | 1706 | 1672 | 1718 |
| **Line amperes** | 6.4 | 10.3 | 14.5 | 19.6 | 26.3 | 34 | 23.62 |

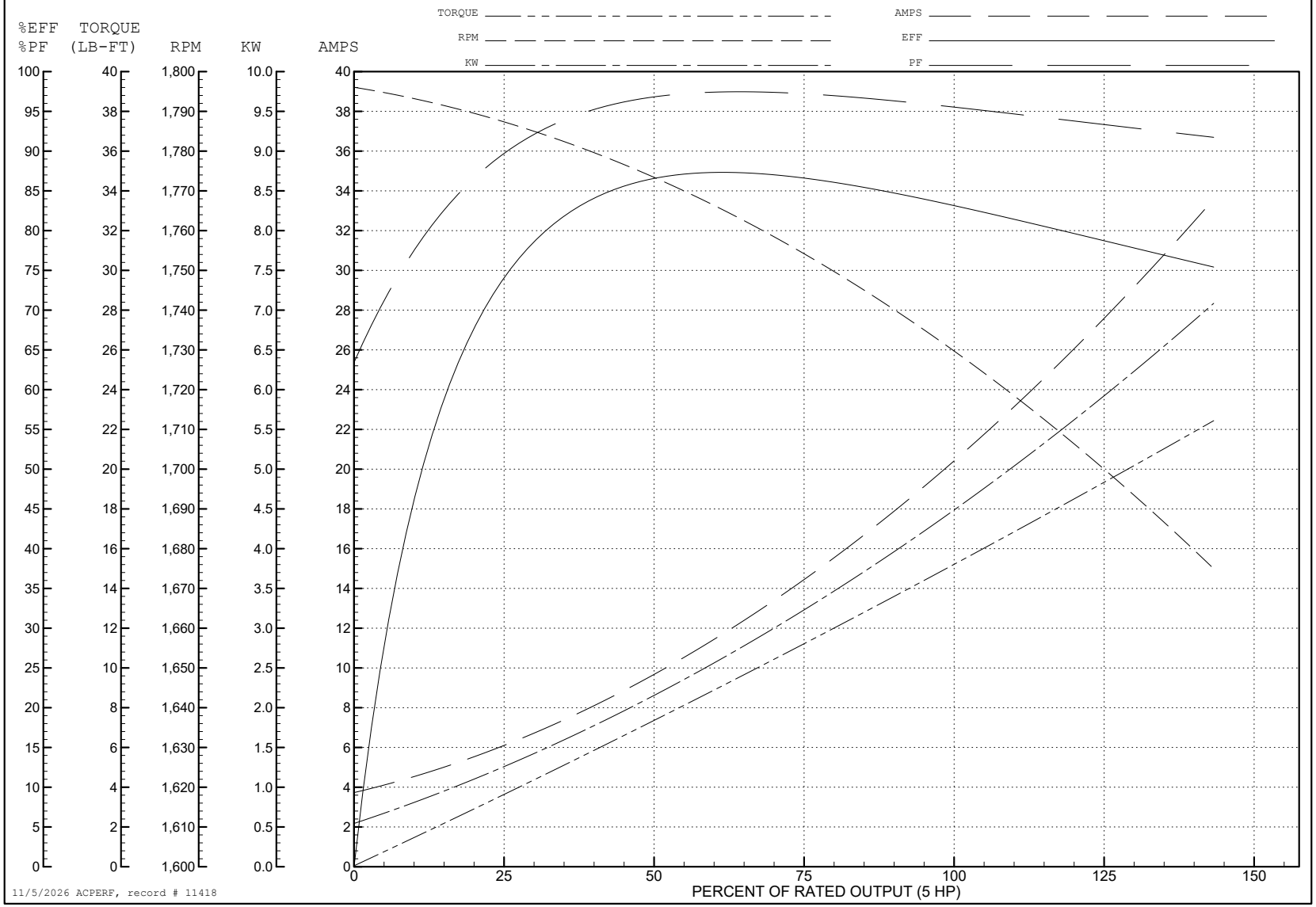
ABB Motors and Mechanical Inc.

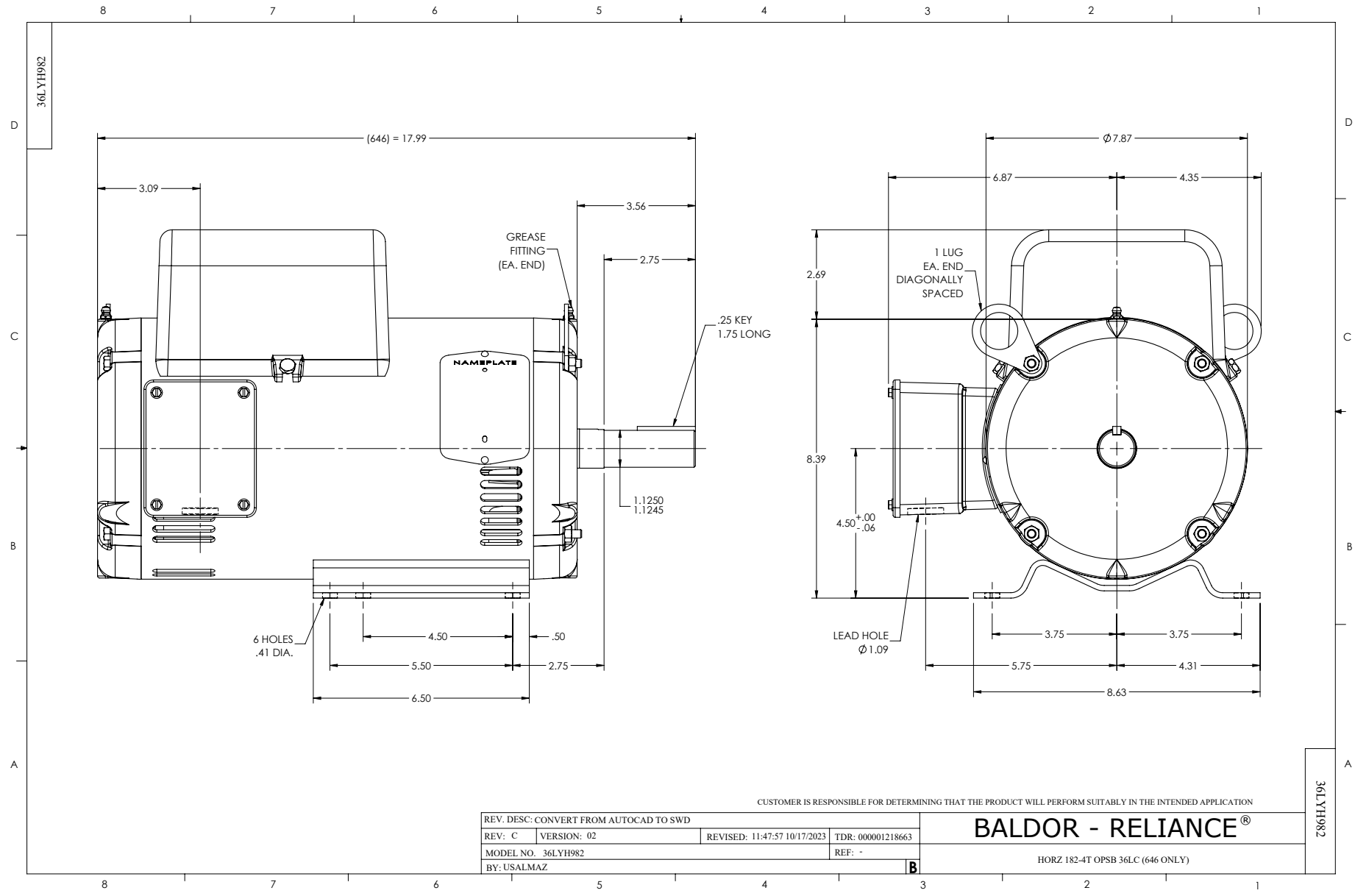
WINDING # 36WGY585

5 HP 1 PH 60 HZ 1735 RPM 230 V 3646LC

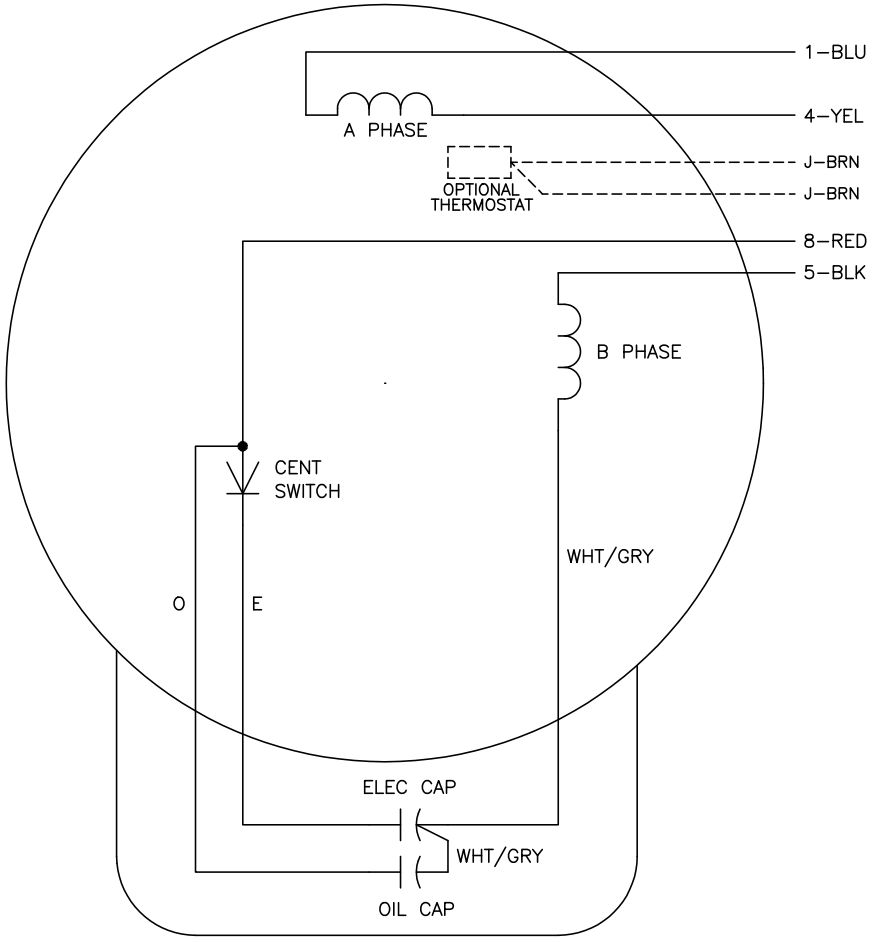
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=37 PU=27 LR=42 LRA=129




36LYH982
(646) = 17.99
3.09
3.56
2.75
GREASE FITTING (EA. END)
.25 KEY 1.75 LONG
NAMEPLATE
1.1250 1.1245
6 HOLES .41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.87
6.87
4.35
2.69
1 LUG EA. END DIAGONALLY SPACED
8.39
4.50 +.00 -.06
LEAD HOLE Ø1.09
3.75
3.75
5.75
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: C
VERSION: 02
REVISED: 11:47:57 10/17/2023
TDR: 000001218663
MODEL NO. 36LYH982
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 182-4T OPSB 36LC (646 ONLY)
36LYH982

CD0017A02




| | 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. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: B | BY: JLP | REVISED: 04/09/99 11:30 | TDR: 0178636 |
| CD0017A02 | | FILE: AAA00007514 | MDL: – |
| | | MTL: – | TYPE LC, SV, REV, 4 LEADS |

CD0017A02