ABB BALDOR RELIANCE

# Customer information packet

## CEM3708T-G

5HP, 1160RPM, 3PH, 60HZ, 215TC, TEFC, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/15/2026 10:05:45 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 215TC |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 5.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | NEMA PREMIUM |
| | UR |
| **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** | 7.100 A @ 460.0 V |
| | 14.200 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 7.1 a |

## Part Detail

| | |
|---|---|
| **Revision** | F |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 07WGY242 |
| **Layout** | 07LYM068 |
| **Eff. date** | 04-29-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 12-16-2019 |

| | |
|---|---|
| **Insulation Class** | H |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0748M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 19.20 IN |
| **Power Factor** | 74 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.375 IN |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 1160 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**

| NP3441LUA | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEM3708T-G | | | | | | | | |
| **SPEC** | 07-0000-0412 | | | | | | | | |
| **HP** | 5 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMPS** | 14.2/7.1 | | | | | | | | |
| **RPM** | 1160 | | | | | | | | |
| **FRAME** | 215TC | **HZ** | 60 | | | **PH** | 3 | | |
| **SF** | 1.15 | **CODE** | J | **DES** | B | **CLASS** | H | | |
| **NEMA NOM. EFF** | 89.5 | **PF** | 74 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | |
| **DE** | 6307 | **ODE** | 6206 | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | |
| | 50HZ 5HP 190/380V 17.4/8.7A | | | | | | | | SF1.0 |

**AC Induction Motor Performance Data**
Record # 70871
Typical performance - not guaranteed values

| **Winding:** 07WGY242-R021 | **Type:** 0748M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 | **Full Load Torque** | 22.9 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 14.2/7.1 | **Breakdown Torque** | 68.1 LB-FT |
| **R.P.M.** | | | 1160 | **Pull-up Torque** | 40.7 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 48.9 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | J | **Starting Current** | 45.7 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3.19 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 74 | **Line-line Res. @ 25ºC** | 1.91 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 53°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 67°C |
| | | | | **Locked-rotor Power Factor** | 21.7 |
| | | | | **Rotor inertia** | 1.19 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 39 | 58 | 69 | 74 | 76 | 76 | 75 |
| **Efficiency** | 86.7 | 90.4 | 90.9 | 89.8 | 88.2 | 86.1 | 88.8 |
| **Speed** | 1189 | 1179 | 1170 | 1158 | 1144 | 1126 | 1150 |
| **Line amperes** | 3.53 | 4.38 | 5.57 | 7.08 | 8.71 | 10.7 | 8.06 |

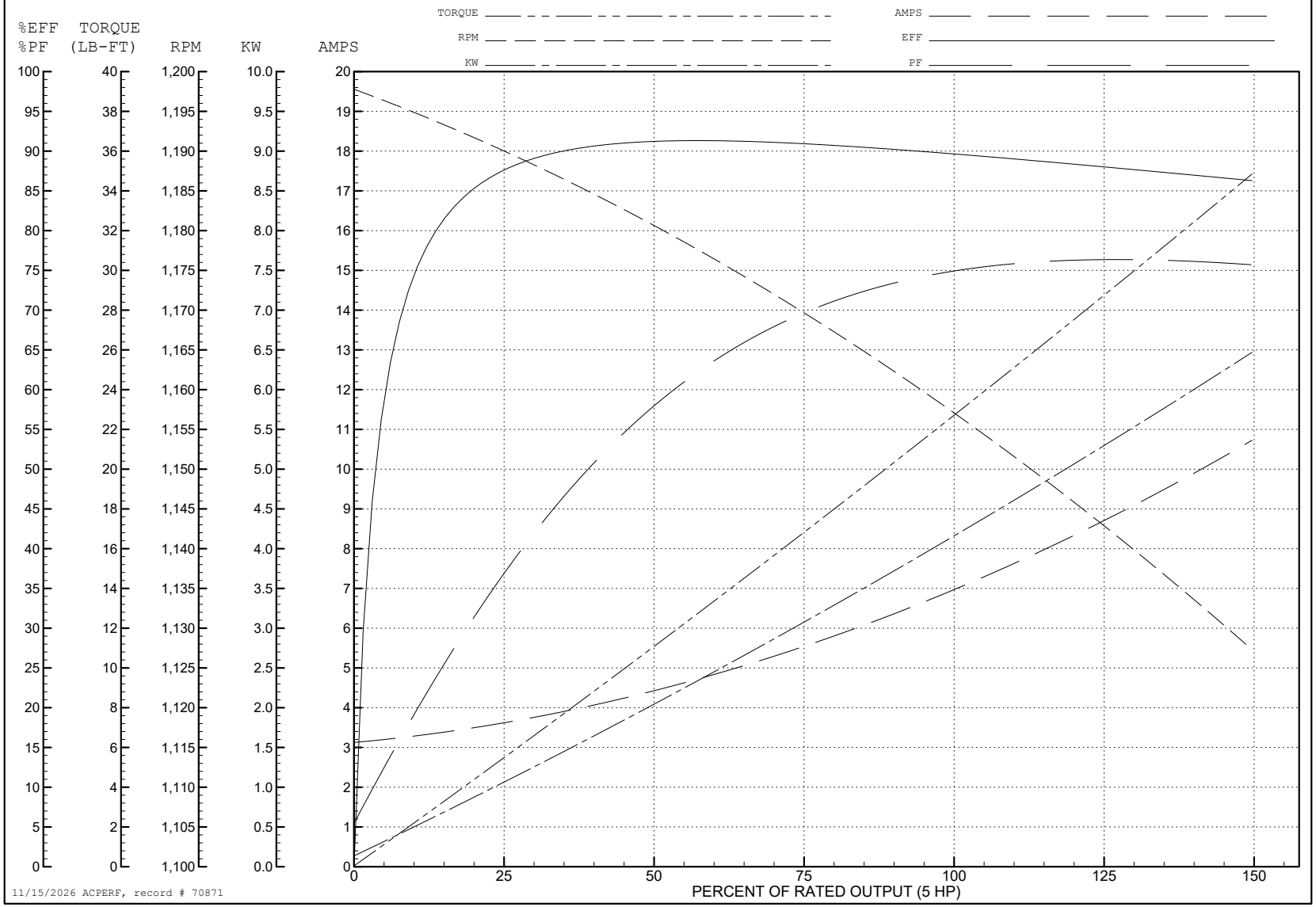
ABB Motors and Mechanical Inc.

WINDING # 07WGY242

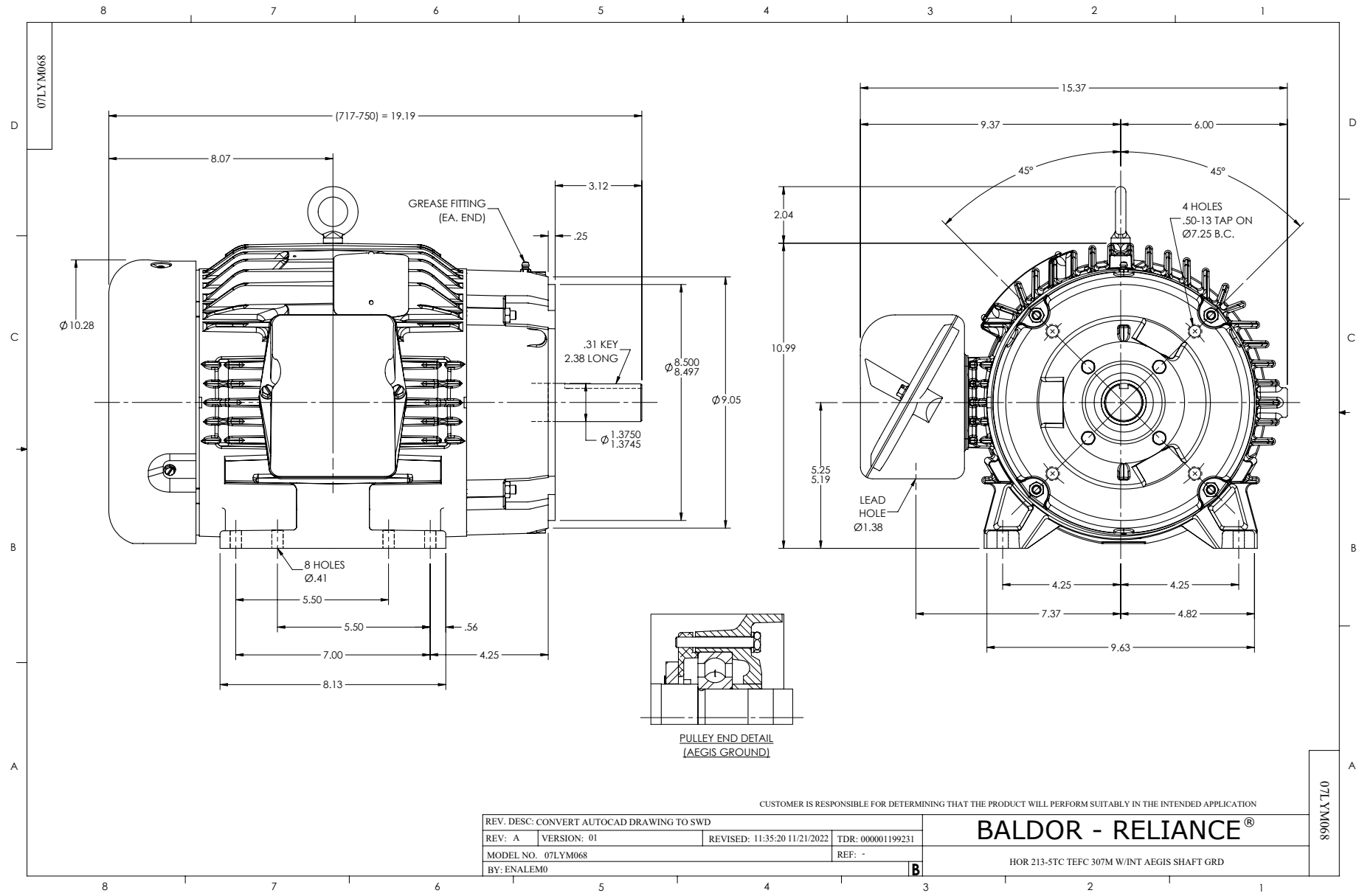
5 HP 3 PH 60 HZ 1160 RPM 460 V 0748M

Typical performance - not guaranteed values.

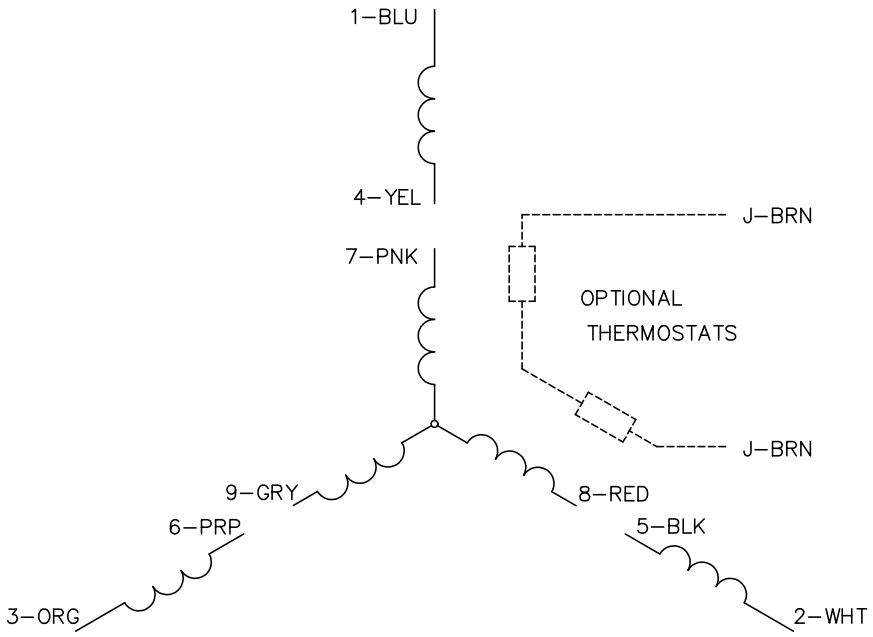
TORQUES(LB-FT): PO=68.1 PU=40.7 LR=48.9 LRA=45.7

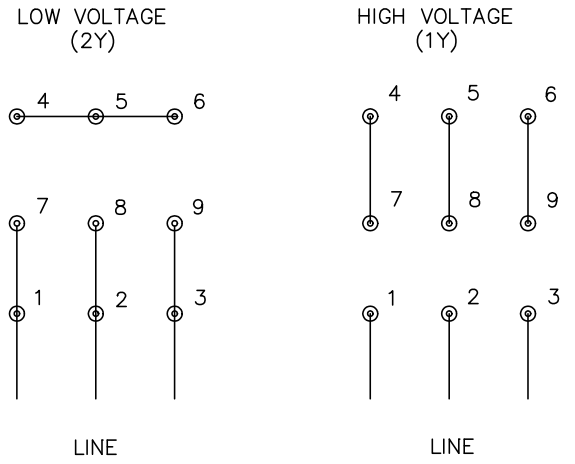



11/15/2026 ACPERF, record # 70871


07LYM068
(717-750) = 19.19
8.07
3.12
.25
GREASE FITTING
(EA. END)
Ø10.28
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.05
Ø1.3750
1.3745
8 HOLES
Ø.41
5.50
5.50
.56
7.00
4.25
8.13
15.37
9.37
6.00
45°
45°
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
2.04
10.99
5.25
5.19
LEAD
HOLE
Ø1.38
4.25
4.25
7.37
4.82
9.63
PULLEY END DETAIL
(AEGIS GROUND)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: A
VERSION: 01
REVISED: 11:35:20 11/21/2022
TDR: 000001199231
MODEL NO. 07LYM068
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5TC TEFC 307M W/INT AEGIS SHAFT GRD
07LYM068

CD0005




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |