ABB BALDOR RELIANCE

# Customer information packet

## EBM3558Y

2HP, 1750RPM, 3PH, 60HZ, 56, 3526M, TEFC, F1, BR
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.
9/7/2026 4:42:17 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56 |
| **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** | 2.000 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** | CURUSEEV |
| | NEMA PREMIUM |
| **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** | 2.600 A @ 460.0 V |
| | 5.200 A @ 230.0 V |
| | 5.800 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 86.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.6 a |

## Part Detail

| | |
|---|---|
| **Revision** | - |
| **Type** | AC |
| **Mech. spec.** | 35A022 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGZ165 |
| **Layout** | 35LYA022 |
| **Eff. date** | 02-19-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 11-03-2025 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3526M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 17.16 IN |
| **Power Factor** | 82 |
| **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** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1750 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**

| NP1259L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EBM3558Y | | | | | | | | |
| **SPEC.** | 35A022Z165 | | | | | | | | |
| **HP** | 2 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMP** | 5.6/2.8 | | | | | | | | |
| **RPM** | 1760 | | | | | | | | |
| **FRAME** | 56 | **HZ** | 60 | | | **PH** | 3 | | |
| **SER.F.** | 1.15 | **CODE** | K | **DES** | B | **CL** | F | | |
| **NEMA-NOM-EFF** | 86.5 | **PF** | 78 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| | SFA 6.3/3.15 | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 114535
Typical performance - not guaranteed values

| **Winding:** 35WGZ165-R001 | **Type:** 3526M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 5.979 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5.2/2.6 | **Breakdown Torque** | 18.4 LB-FT |
| **R.P.M.** | | | 1750 | **Pull-up Torque** | 13.7 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 14.5 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 17.9 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.24 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 82 | **Line-line Res. @ 25ºC** | 10.857 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 59°C |
| **S.F. Amps** | | | 6/3 | **Temp. Rise @ S.F. Load** | 75°C |
| | | | | **Locked-rotor Power Factor** | 59.3 |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 42 | 64 | 76 | 82 | 86 | 87 | 84 |
| **Efficiency** | 82.7 | 87.6 | 87.8 | 86.6 | 84.6 | 82 | 85.4 |
| **Speed** | 1788.4 | 1776.9 | 1763.5 | 1748.9 | 1731.7 | 1711.8 | 1739 |
| **Line amperes** | 1.35 | 1.65 | 2.09 | 2.61 | 3.21 | 3.91 | 2.97 |

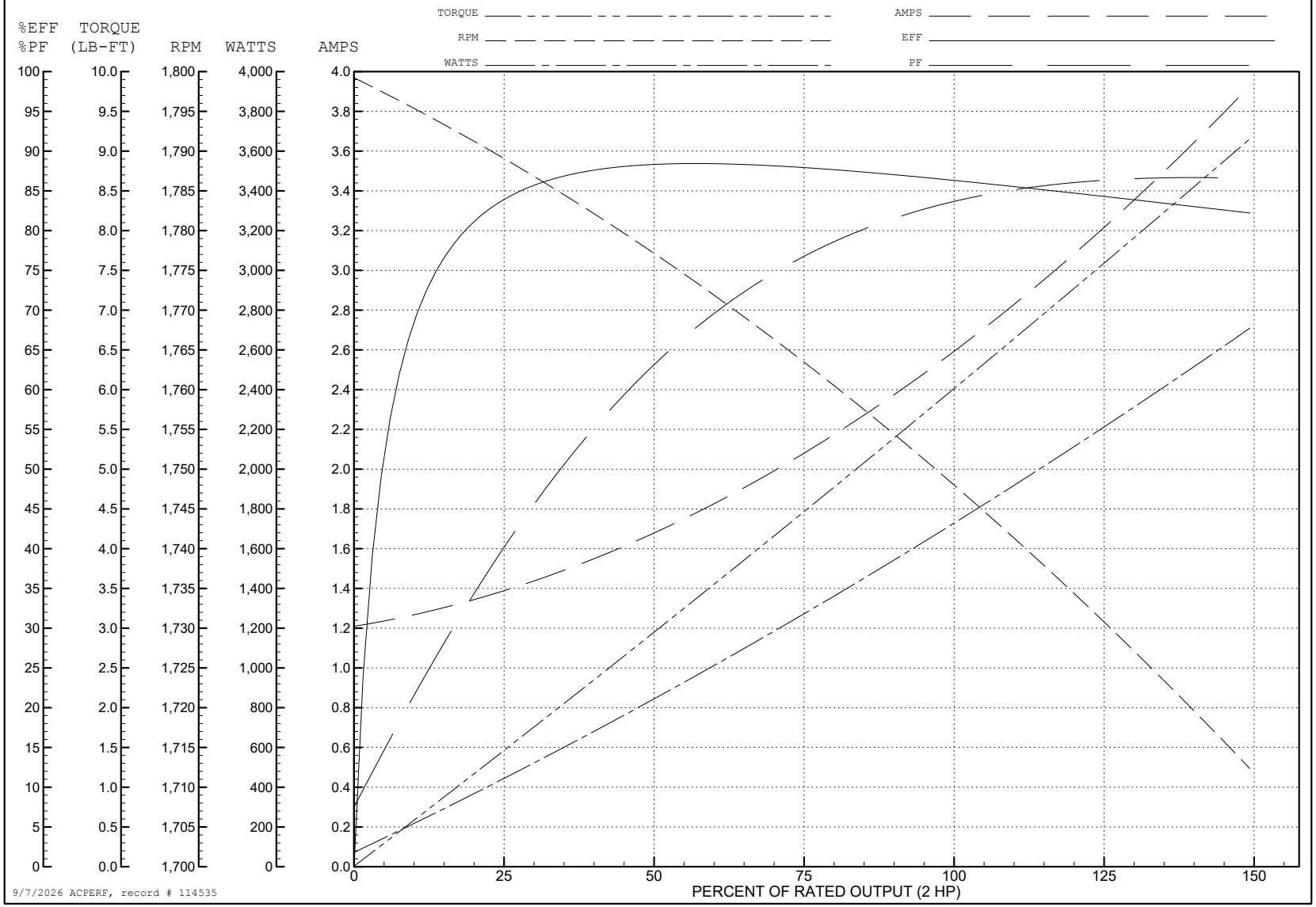
ABB Motors and Mechanical Inc.

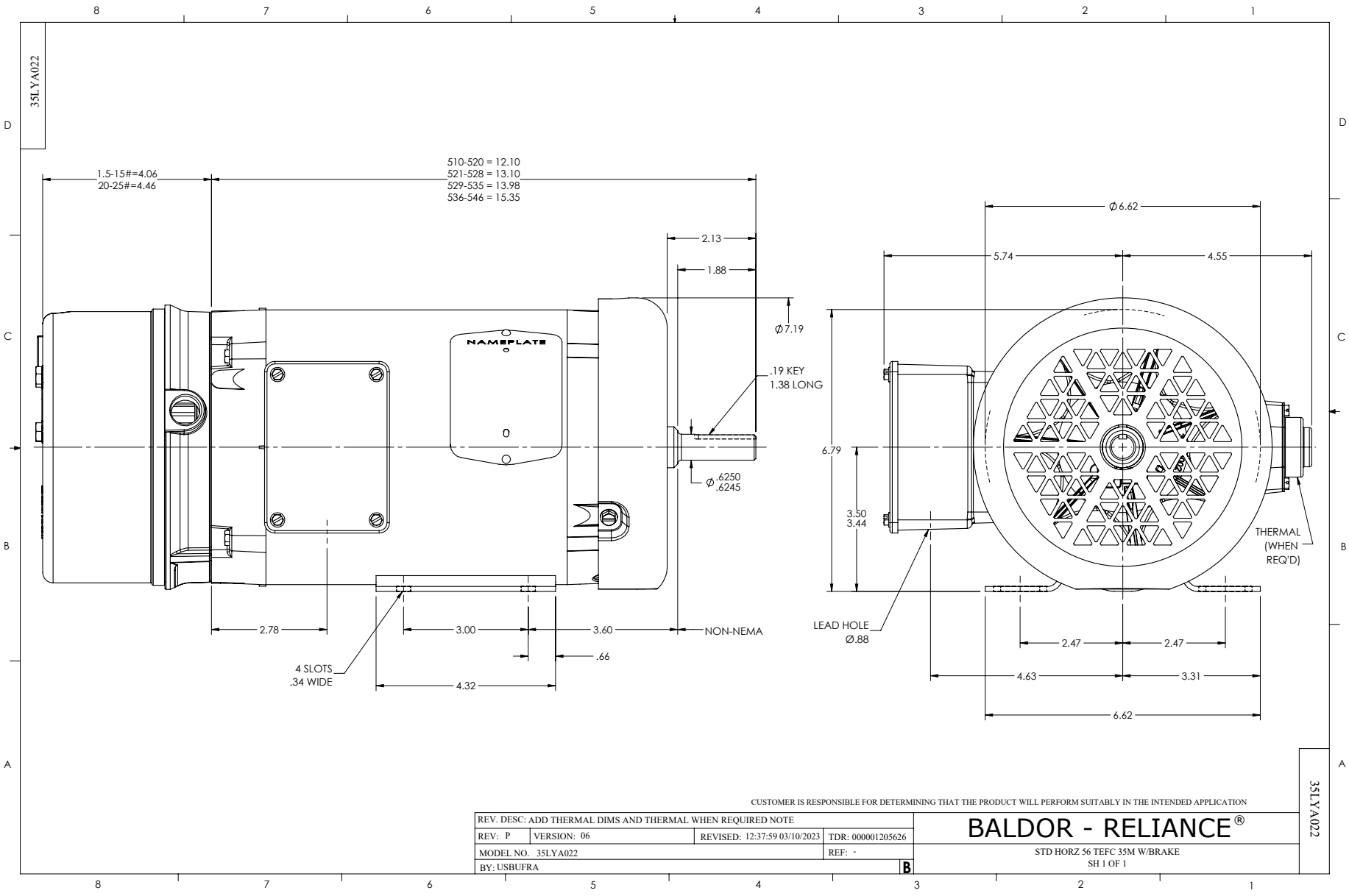
WINDING # 35WGZ165

2 HP 3 PH 60 HZ 1750 RPM 460 V 3526M

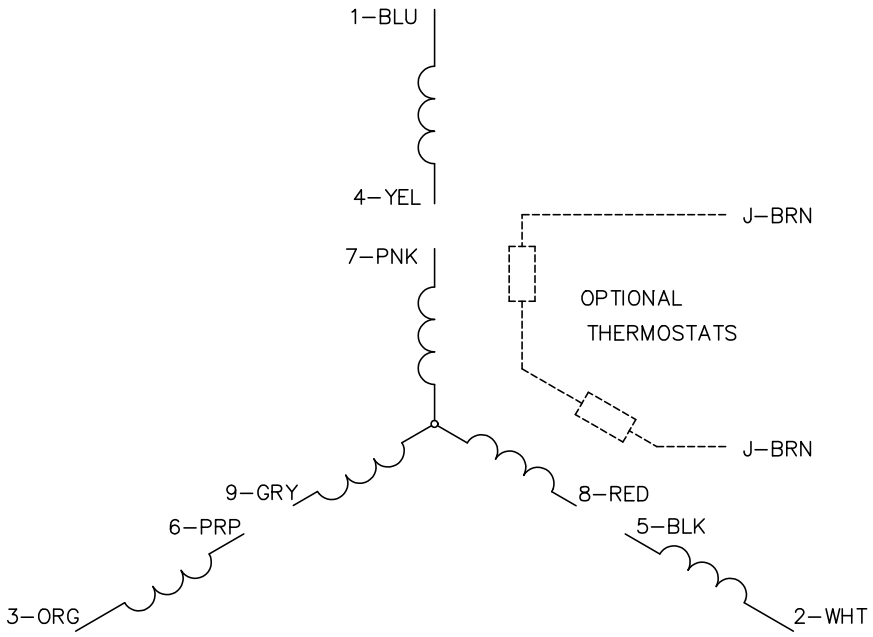
Typical performance - not guaranteed values.

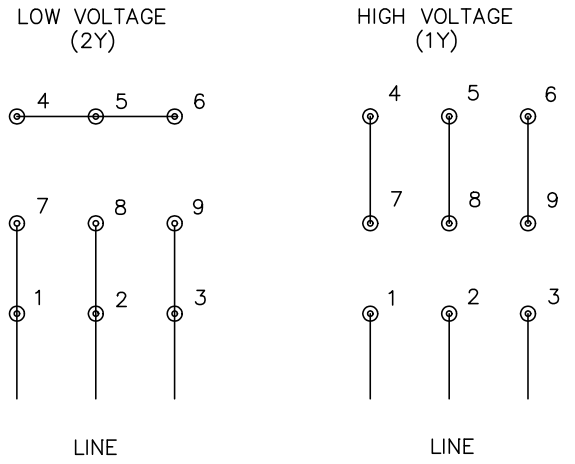
TORQUES(LB-FT): PO=18.4 PU=13.7 LR=14.5 LRA=17.9




35LYA022
1.5-15#=4.06
20-25#=4.46
510-520 = 12.10
521-528 = 13.10
529-535 = 13.98
536-546 = 15.35
2.13
1.88
Ø7.19
.19 KEY
1.38 LONG
NAMEPLATE
Ø .6250
.6245
2.78
3.00
3.60
NON-NEMA
.66
4.32
4 SLOTS
.34 WIDE
Ø6.62
5.74
4.55
6.79
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø.88
2.47
2.47
4.63
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: P
VERSION: 06
REVISED: 12:37:59 03/10/2023
TDR: 000001205626
MODEL NO. 35LYA022
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 56 TEFC 35M W/BRAKE
SH 1 OF 1
35LYA022

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 |