ABB BALDOR RELIANCE

# Customer information packet

## EM3583T-G

1.5HP, 3500RPM, 3PH, 60HZ, 143T, TEFC, F1
Class - None
Division - Not Applicable

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11/14/2026 1:12:01 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 143T |
| **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** | 1.500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 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** | 4.000 A @ 208.0 V |
| | 3.800 A @ 230.0 V |
| | 1.900 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 84.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 05WGX102 |
| **Layout** | 05LYG784 |
| **Eff. date** | 04-30-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 04-09-2019 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 1.9 a |
| **Insulation Class** | H |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0520M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 12.54 IN |
| **Power Factor** | 85 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 3500 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP3441LUA | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EM3583T-G | | | | | | | | |
| **SPEC** | 05-0000-0044 | | | | | | | | |
| **HP** | 1.5 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMPS** | 3.8/1.9 | | | | | | | | |
| **RPM** | 3500 | | | | | | | | |
| **FRAME** | 143T | **HZ** | 60 | | | **PH** | 3 | | |
| **SF** | 1.15 | **CODE** | L | **DES** | B | **CLASS** | H | | |
| **NEMA NOM. EFF** | 84 | **PF** | 85 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | |
| | 50HZ 1.5HP 190/380V 4.6/2.3A | | | | | | | | SF1.0 |

**AC Induction Motor Performance Data**
Record # 75454
Typical performance - not guaranteed values

| **Winding:** 05WGX102-R004 | **Type:** 0520M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|
| **Rated Output (HP)** | | 1.5 | **Full Load Torque** | 2.22 LB-FT |
| **Volts** | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | 3.8/1.9 | **Breakdown Torque** | 9.49 LB-FT |
| **R.P.M.** | | 3500 | **Pull-up Torque** | 3.61 LB-FT |
| **Hz** | 60 **Phase** | 3 | **Locked-rotor Torque** | 7.35 LB-FT |
| **NEMA Design Code** | B **KVA Code** | L | **Starting Current** | 17.9 A |
| **Service Factor (S.F.)** | | 1.15 | **No-load Current** | 0.932 A |
| **NEMA Nom. Eff.** | 84 **Power Factor** | 85 | **Line-line Res. @ 25ºC** | 12.2 Ω |
| **Rating - Duty** | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 43°C |
| **S.F. Amps** | | | **Temp. Rise @ S.F. Load** | 50°C |
| | | | **Locked-rotor Power Factor** | 60.1 |
| | | | **Rotor inertia** | 0.0553 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 45 | 67 | 79 | 85 | 89 | 90 | 87 |
| **Efficiency** | 72.2 | 82.1 | 84.4 | 84.7 | 84.3 | 82.7 | 84.5 |
| **Speed** | 3575 | 3551 | 3526 | 3498 | 3466 | 3433 | 3479 |
| **Line amperes** | 1.03 | 1.25 | 1.55 | 1.91 | 2.31 | 2.79 | 2.15 |

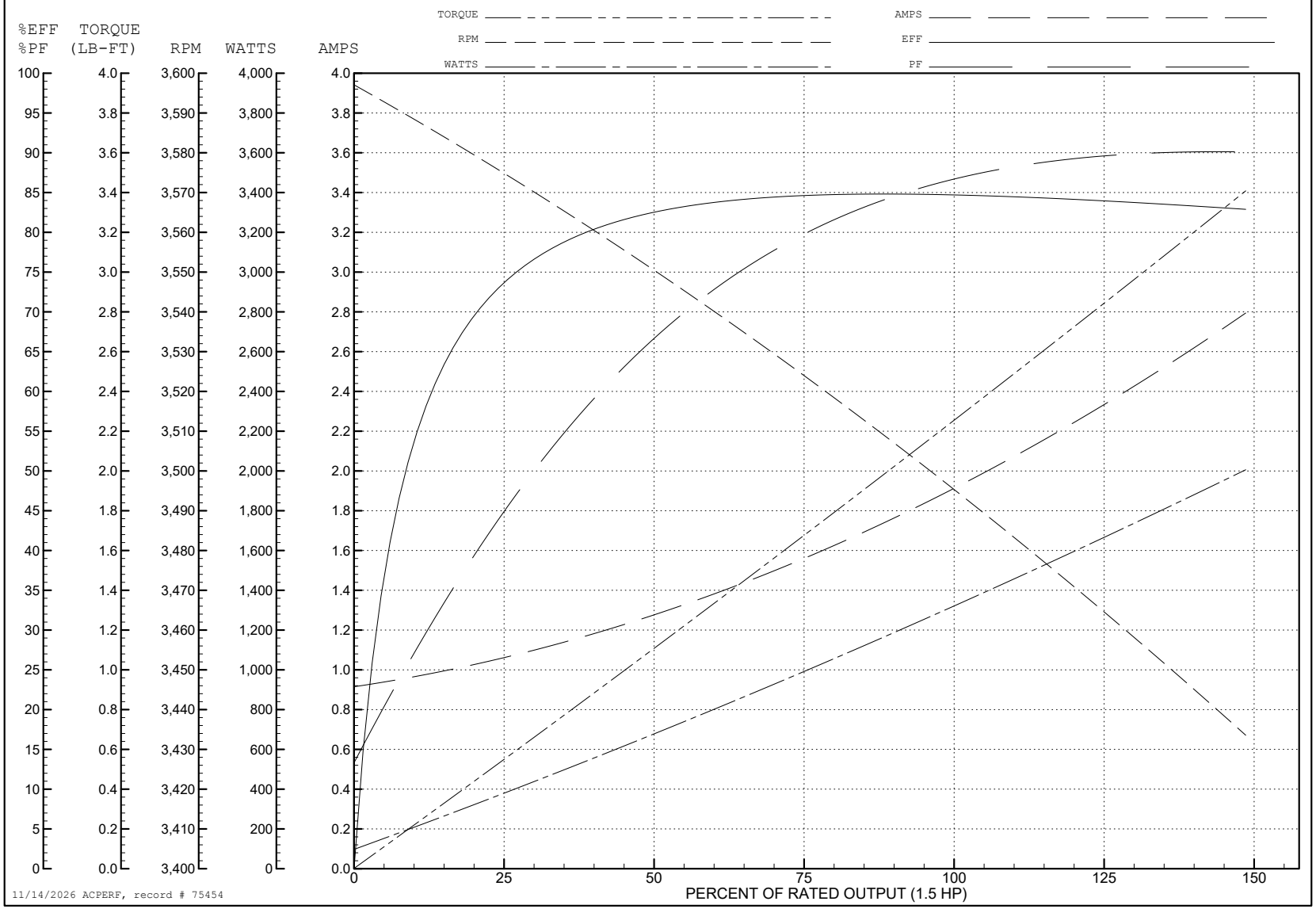
ABB Motors and Mechanical Inc.

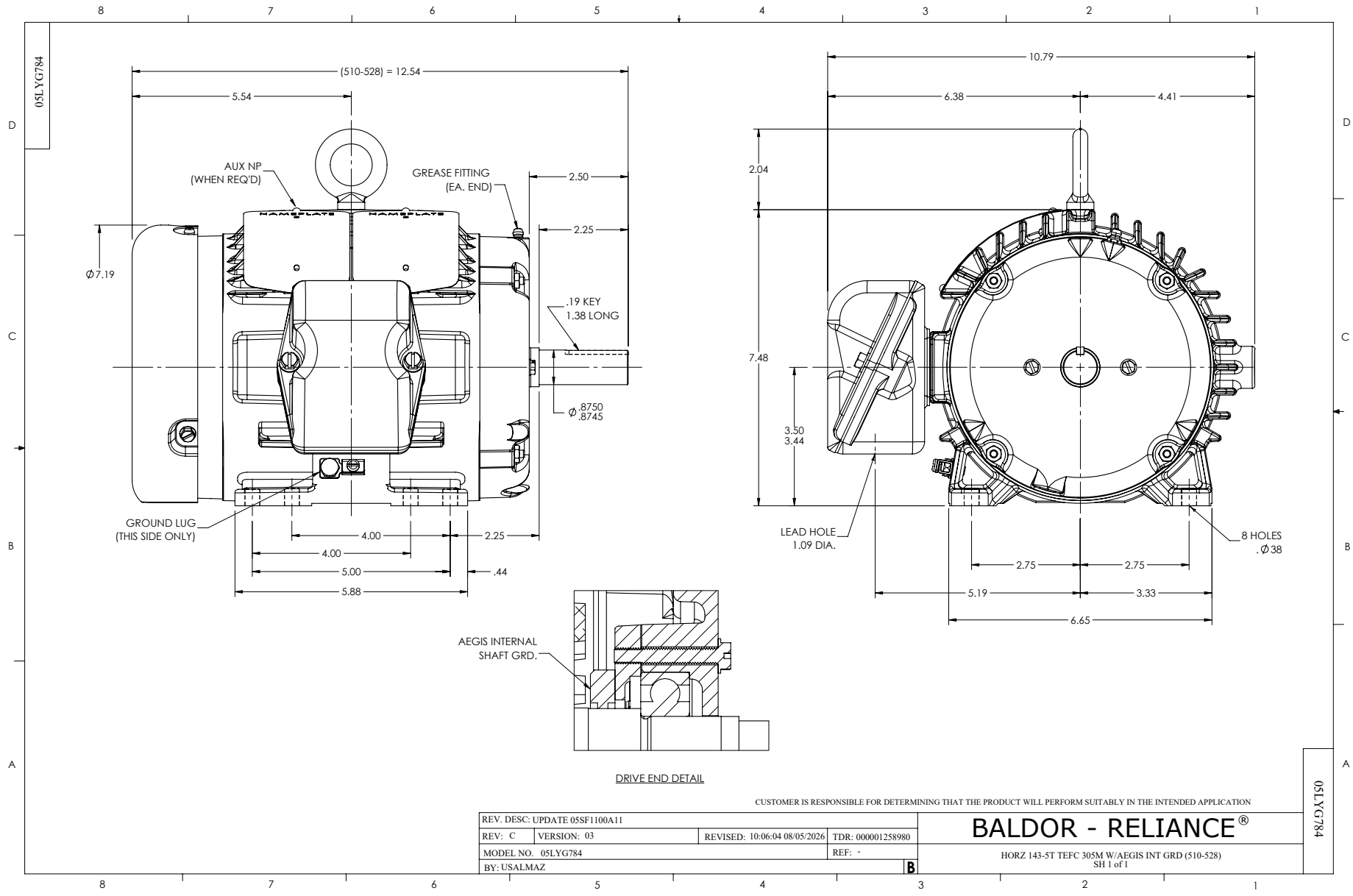
WINDING # 05WGX102

1.5 HP 3 PH 60 HZ 3500 RPM 460 V 0520M

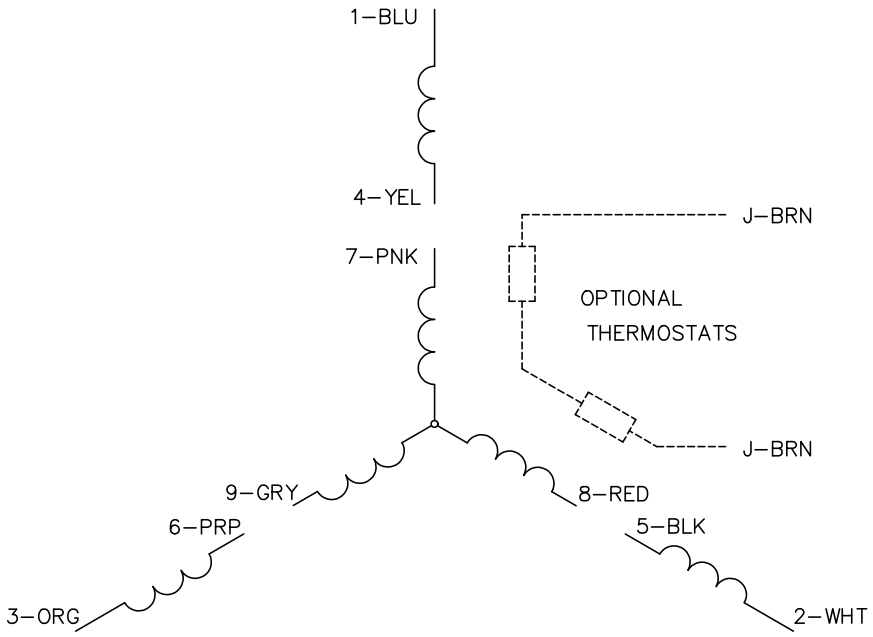
Typical performance - not guaranteed values.

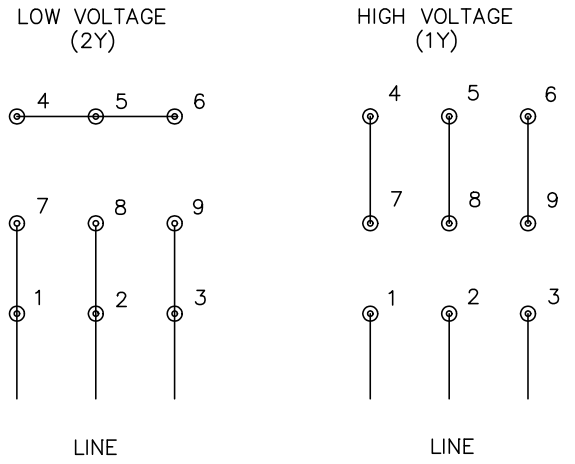
TORQUES(LB-FT): PO=9.49 PU=3.61 LR=7.35 LRA=17.9




05LYG7784
(510-528) = 12.54
5.54
AUX NP
(WHEN REQ'D)
GREASE FITTING
(EA. END)
2.50
2.25
Ø7.19
.19 KEY
1.38 LONG
Ø.8750
.8745
GROUND LUG
(THIS SIDE ONLY)
4.00
2.25
4.00
5.00
.44
5.88
10.79
6.38
4.41
2.04
7.48
3.50
3.44
LEAD HOLE
1.09 DIA.
8 HOLES
.Ø38
2.75
2.75
5.19
3.33
6.65
AEGIS INTERNAL
SHAFT GRD.
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 05SF1100A11
REV: C
VERSION: 03
REVISED: 10:06:04 08/05/2026
TDR: 000001258980
MODEL NO. 05LYG784
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 143-5T TEFC 305M W/AEGIS INT GRD (510-528)
SH 1 of 1
05LYG7784

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 |