ABB BALDOR RELIANCE

# Customer information packet

## ECTM3768T-G-AO

5 AIR OVERHP, 1160RPM, 3PH, 60HZ, 215T, 0746M
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEAO |
| **Frame** | 215T |
| **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 EEV |
| | NEMA PREMIUM |
| | 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** | 7.400 A @ 460.0 V |
| | 15.300 A @ 208.0 V |
| | 14.800 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | C |
| **Type** | AC |
| **Mech. spec.** | 07D709 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 07WGY763 |
| **Layout** | 07LYD709 |
| **Eff. date** | 09-08-2023 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 04-05-2022 |

| | |
|---|---|
| **Heater Indicator** | Heater Included, 115 V |
| **High Voltage Full Load Amps** | 7.4 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | K |
| **Lifting Lugs** | Vertical Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0746M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 19.62 IN |
| **Power Factor** | 71 |
| **Product Family** | Chemical Processing (Not DC) |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.375 IN |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **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**

| NP2178 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | ECTM3768T-G-AO | | | | | | | | | |
| **SPEC.** | 07D709Y763G1 | | | | | | | | | |
| **HP** | 5 AIR OVER | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMP** | 14.8/7.4 | | | | | | | | | |
| **RPM** | 1160 | | | | | | | | | |
| **FRAME** | 215T | **HZ** | 60 | **PH** | 3 | | | | | |
| **SER.F.** | 1.15 | **CODE** | K | **DES** | A | **CL** | F | | | |
| **NEMA-NOM-EFF** | 89.5 | **PF** | 71 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | | | | | | | | | | |
| **DE** | 6307 | **ODE** | 6206 | | | | | | | |
| **ENCL** | TEAO | **SN** | | | | | | | | |
| | INV DUT 20:1 VT | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 92600
Typical performance - not guaranteed values

| **Winding:** 07WGY763-R022 | **Type:** 0746M | **Enclosure:** TEAO |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 AIR OVER | **Full Load Torque** | 22.8 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 14.8/7.4 | **Breakdown Torque** | 81.3 LB-FT |
| **R.P.M.** | | | 1160 | **Pull-up Torque** | 49.9 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 59.9 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | K | **Starting Current** | 54.8 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 4.03 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 71 | **Line-line Res. @ 25ºC** | 1.64 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 50°C |
| **S.F. Amps** | | | 16.6/8.3 | **Temp. Rise @ S.F. Load** | 61°C |
| | | | | **Locked-rotor Power Factor** | 22.2 |
| | | | | **Rotor inertia** | 1.14 lb-ft² |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 32 | 51 | 63 | 70 | 74 | 76 | 72 |
| **Efficiency** | 84.9 | 89.7 | 90.6 | 90.4 | 89.2 | 87.7 | 89.7 |
| **Speed** | 1190 | 1181 | 1174 | 1164 | 1153 | 1141 | 1157 |
| **Line amperes** | 4.32 | 5.06 | 6.12 | 7.48 | 8.92 | 10.5 | 8.34 |

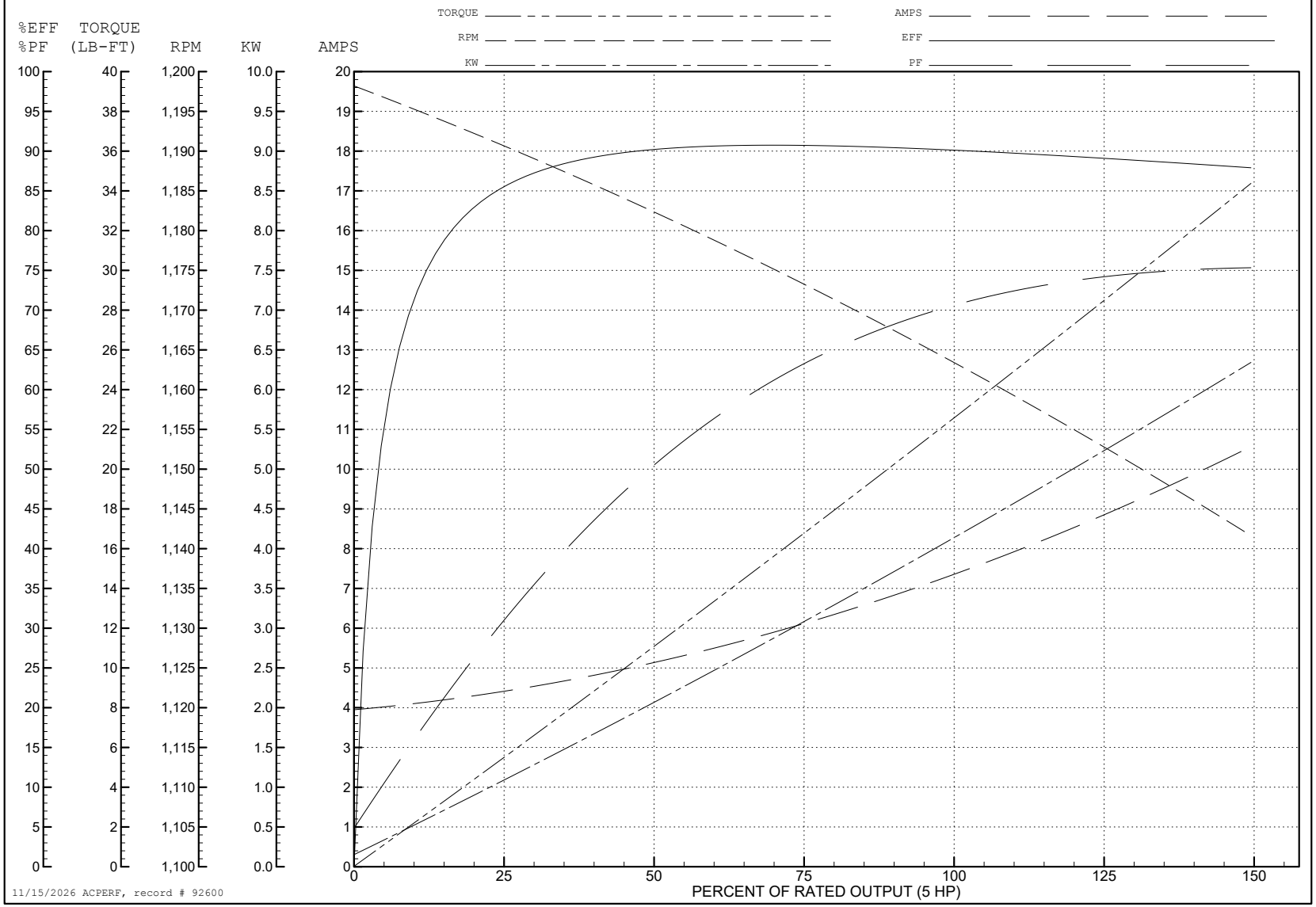
ABB Motors and Mechanical Inc.

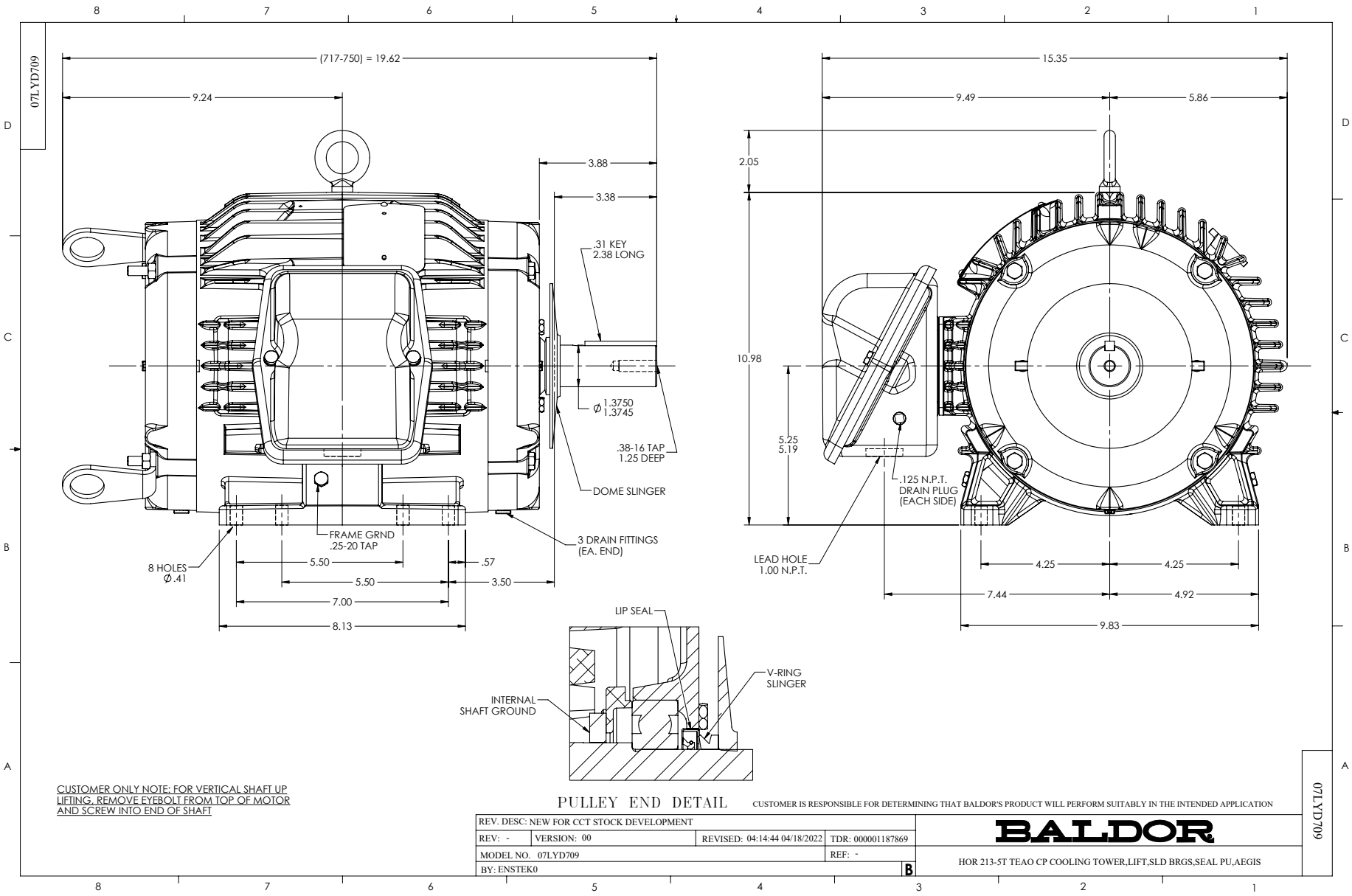
WINDING # 07WGY763

5 HP 3 PH 60 HZ 1160 RPM 460 V 0746M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=81.3 PU=49.9 LR=59.9 LRA=54.8






CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

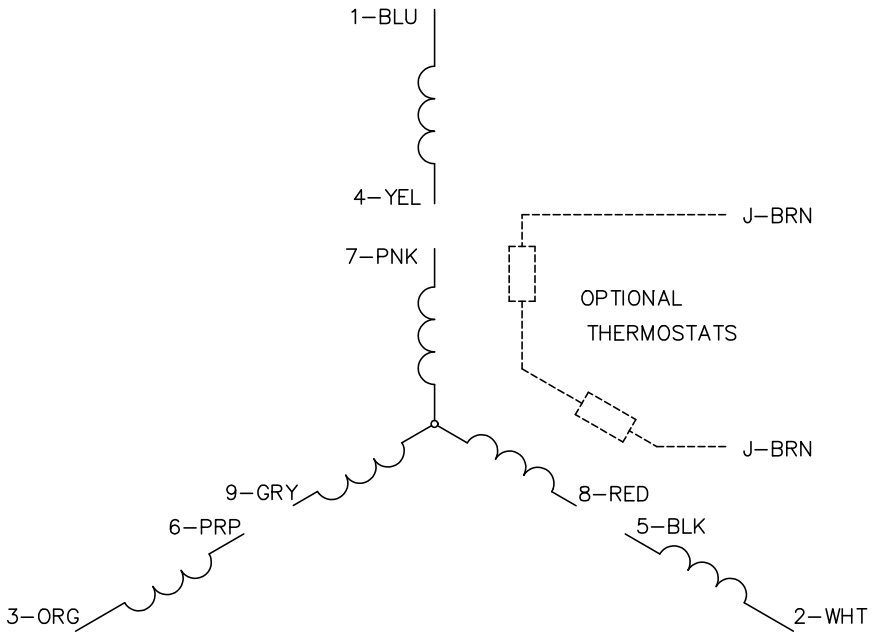
| | | | |
|---|---|---|---|
| REV. DESC: NEW FOR CCT STOCK DEVELOPMENT | | | |
| REV: - | VERSION: 00 | REVISED: 04:14:44 04/18/2022 | TDR: 000001187869 |
| MODEL NO. 07LYD709 | | | REF: - |
| BY: ENSTEK0 | | | B |

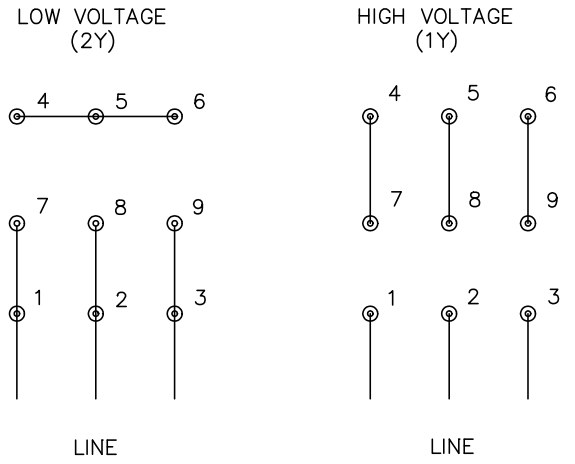
BALDOR

HOR 213-5T TEAO CP COOLING TOWER,LIFT,SLD BRGS,SEAL PU,AEGIS

07LYD709

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 |