BALDOR • RELIANCE

# Customer information packet

## EBM3556TY

1HP, 1170RPM, 3PH, 60HZ, 145T, 3526M, TEFC, F1
Class - None
Division - Not Applicable


6/9/2025 4:04:18 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 145T |
| **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** | 1.000 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** | CURUSEEV |
| | NEMA PREMIUM |
| **Ambient Temperature** | 40 °C |
| **Auxillary Box** | No Auxillary Box |
| **Auxillary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 1.500 A @ 460.0 V |
| | 3.000 A @ 230.0 V |
| | 3.500 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 82.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 1.5 a |

## Part detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | 35A021 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG019 |
| **Layout** | 35LYA021 |
| **Eff. date** | 12-05-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 02-23-2023 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |
| **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** | 6 |
| **Overall Length** | 17.54 IN |
| **Power Factor** | 67 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1170 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.** | EBM3556TY | | | | | | | | | | |
| **SPEC.** | 35A021G019G3 | | | | | | | | | | |
| **HP** | 1 | | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | | |
| **AMP** | 3/1.5 | | | | | | | | | | |
| **RPM** | 1170 | | | | | | | | | | |
| **FRAME** | 145T | | **HZ** | 60 | | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | J | **DES** | B | **CL** | F | | | | |
| **NEMA-NOM-EFF** | 82.5 | **PF** | 67 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | 010A | | | | | | | | | | |
| **DE** | 6205 | | **ODE** | 6203 | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | | |
| | SFA 3.7/1.85 | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 77838
Typical performance - not guaranteed values

| **Winding:** 35WGG019-R001 | **Type:** 3526M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 1 | **Full Load Torque** | 4.479 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 3.0/1.5 | **Breakdown Torque** | 11.9 LB-FT |
| **R.P.M.** | | | 1155 | **Pull-up Torque** | 7.06 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 8.62 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | J | **Starting Current** | 9.06 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.02 A |
| **NEMA Nom. Eff.** | 0 | **Power Factor** | 0 | **Line-line Res. @ 25ºC** | 20.372 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 46°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 56°C |
| | | | | **Locked-rotor Power Factor** | 48 |

**Load Characteristics 460 V, 60 Hz, 1 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 29 | 47 | 1 | 1 | 1 | 1 | 1 |
| **Efficiency** | 73.5 | 81.9 | 83.5 | 83.1 | 81.6 | 79.1 | 82.2 |
| **Speed** | 1192.5 | 1185.4 | 1177.6 | 1168.7 | 1159 | 1147 | 1163 |
| **Line amperes** | 1.07 | 1.21 | 1.41 | 1.67 | 1.98 | 2.35 | 1.86 |

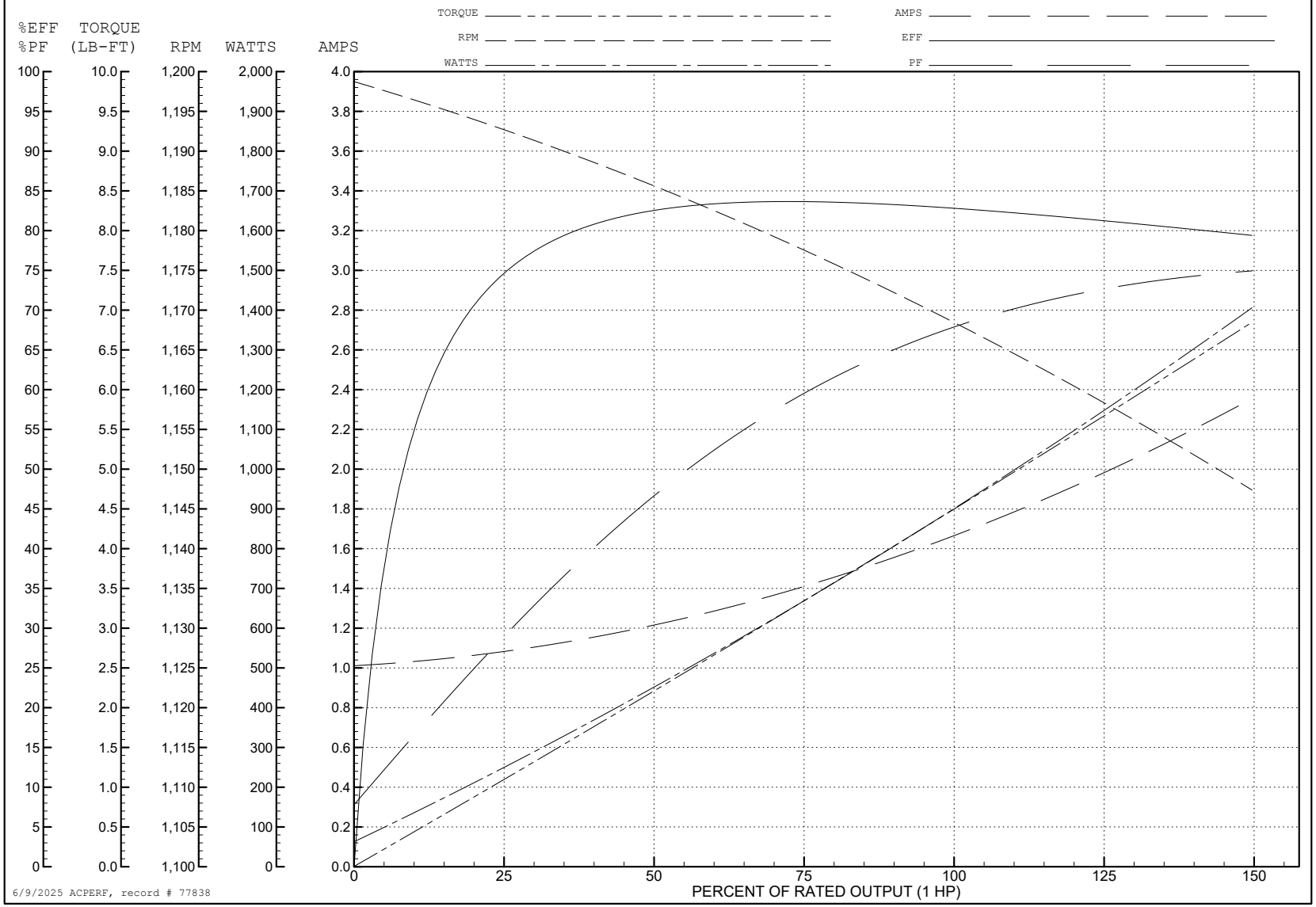
ABB Motors and Mechanical Inc.

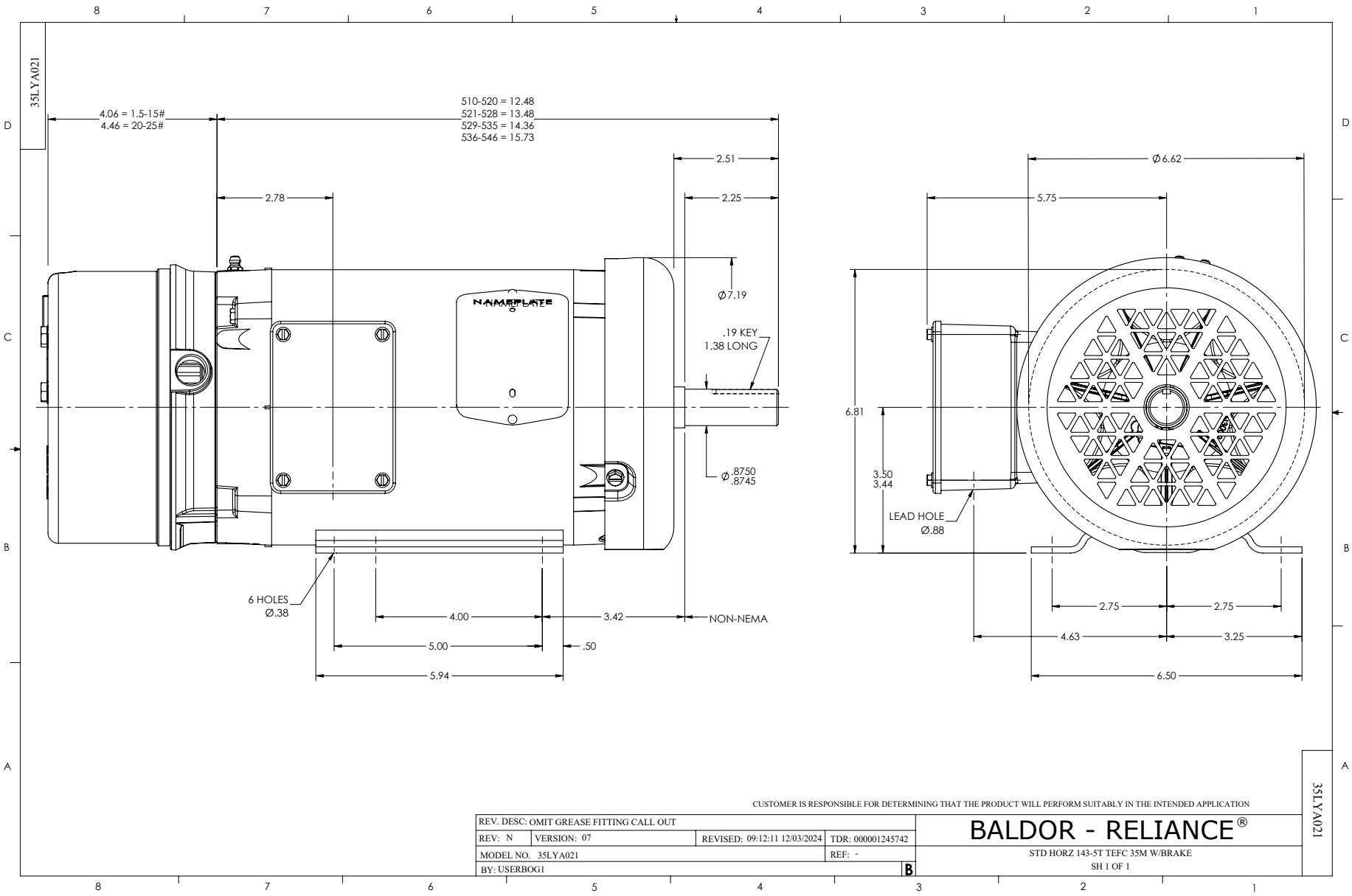
WINDING # 35WGG019

1 HP 3 PH 60 HZ 1155 RPM 460 V 3526M

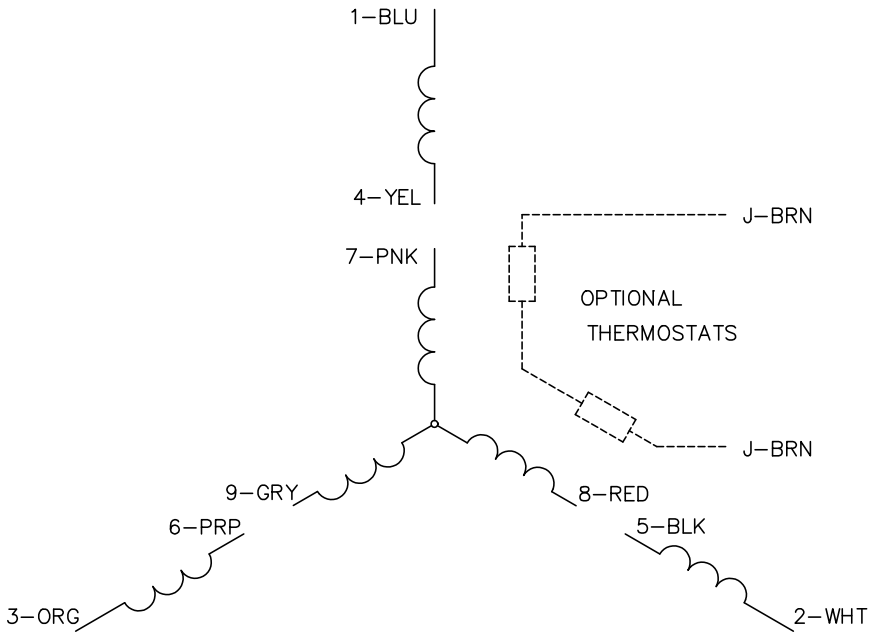
Typical performance - not guaranteed values.

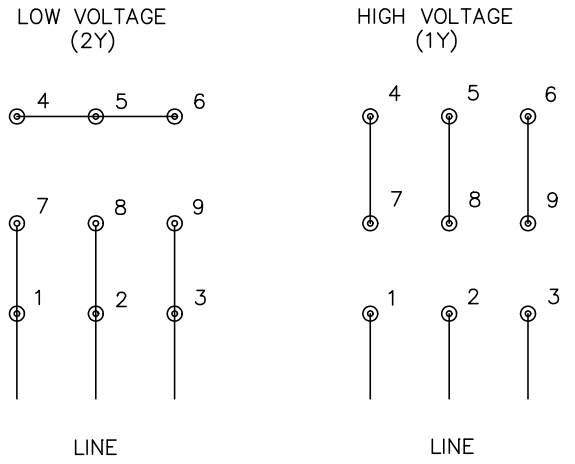
TORQUES(LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06




35LYA021
4.06 = 1.5-15#
4.46 = 20-25#
510-520 = 12.48
521-528 = 13.48
529-535 = 14.36
536-546 = 15.73
2.51
2.78
2.25
Ø7.19
.19 KEY
1.38 LONG
NAMEPLATE
Ø.8750
.8745
6 HOLES
Ø.38
4.00
3.42
NON-NEMA
5.00
.50
5.94
Ø6.62
5.75
6.81
3.50
3.44
LEAD HOLE
Ø.88
2.75
2.75
4.63
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: OMIT GREASE FITTING CALL OUT
REV: N
VERSION: 07
REVISED: 09:12:11 12/03/2024
TDR: 000001245742
MODEL NO. 35LYA021
REF: -
BY: USERBOG1
B
BALDOR - RELIANCE®
STD HORZ 143-5T TEFC 35M W/BRAKE
SH 1 OF 1
35LYA021

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 |