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# Product Information Packet

# EFM2535T

## 30HP,1770RPM,3PH,60HZ,286T,4052M,OPSB,F2

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| Part Detail | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Revision:** | N | **Status:** | PRD/A | **Change #:** | | **Proprietary:** | No |
| **Type:** | AC | **Prod. Type:** | 4052M | **Elec. Spec:** | 40WGW942 | **CD Diagram:** | CD0005 |
| **Enclosure:** | OPSB | **Mfg Plant:** | | **Mech. Spec:** | 40E208 | **Layout:** | 40LYE208 |
| **Frame:** | 286T | **Mounting:** | F2 | **Poles:** | 04 | **Created Date:** | 06-10-2009 |
| **Base:** | RG | **Rotation:** | R | **Insulation:** | F | **Eff. Date:** | 06-25-2014 |
| **Leads:** | 9#10 | | | | | **Replaced By:** | |
| **Literature:** | | **Elec. Diagram:** | | | | | |



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| Nameplate NP2138L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CAT.NO. | EFM2535T | P/N | | ENCLOSURE | OPSB | | | |
| SPEC. | 40E208W942 | CC | 010A | FRAME | 286T | S/N | | |
| HP | 30 | CLASS | F | HZ | 60 | | | |
| RPM | 1770 | PH | 3 | DES | B | | | |
| VOLT | 230/460 | KVA-CODE | G | ODE BRG | 6309 | DE BRG | 6311 | |
| AMP | 70/35 | USABLE AT 208V | 74.1 | | | | | |
| RATING | 40C AMB-CONT | GREASE | POLYREX EM | | | | | |
| NEMA-NOM-EFF | 94.1 | PF | 85 | SER.F. | 1.15 | | | |
| | | | | | | | | |
| HTR-VOLTS | | HTR-AMPS | | MAX. SPACE HEATER TEMP. | | | | |



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## Parts List

| Part Number | Description | Quantity |
|---|---|---|
| SA182882 | SA 40E208W942 | 1.000 EA |
| RA170774 | RA 40E208W942 | 1.000 EA |
| S/P107-000-004 | SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E | 1.000 EA |
| HA6361A01 | LIFTING LUG FOR 37, 39 & 40 FRAME (AUTOP | 2.000 EA |
| HA6017 | CAST ADAPTER, 40,42 KOBX | 1.000 EA |
| 19XW3118A12 | .31-18 X .75 HEX WASHER HEAD TAPTITE II | 2.000 EA |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 2.000 EA |
| 10CB3000SP | STD KO BOX MODEL 310,312,314 MTRS W/2.00 | 1.000 EA |
| 19XW3118A12 | .31-18 X .75 HEX WASHER HEAD TAPTITE II | 4.000 EA |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 EA |
| WD1000B16 | T&B CX70TN TERMINAL | 1.000 EA |
| 51XF2520A08 | SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L | 1.000 EA |
| 40EP3200A02 | STD FREP OPEN 309 BRG | 1.000 EA |
| HW5100A11 | W3917-042 WVY WSHR (WB) | 1.000 EA |
| 40EP3200B05 | STD PUEP OPEN 311 BRG | 1.000 EA |
| XY3816A12 | 3/8-16 FINISHED NUT | 8.000 EA |
| 10CB3500 | CONDUIT BOX LID, CAST | 1.000 EA |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 4.000 EA |
| HW2501H28 | KEY, 1/2 SQ X 3.250 | 1.000 EA |
| LB1115N | LABEL,LIFTING DEVICE (ON ROLLS) | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 10/13 | 1.000 EA |
| HW4500A03 | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 EA |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 EA |

## Parts List (continued)

| Part Number | Description | Quantity |
|---|---|---|
| MJ1000A75 | GREASE, POLYREX EM EXXON (USe 4824-15A) | 0.050 LB |
| HW4500A03 | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 EA |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 EA |
| MG1000Y03 | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20, | 0.070 GA |
| 85XU0407A04 | #4-7 X 1/4 DRIVE PIN | 4.000 EA |
| 40AD2002A01 | LEXAN BAFFLE 40 FR OPEN | 1.000 EA |
| 40AD2002A01 | LEXAN BAFFLE 40 FR OPEN | 1.000 EA |
| HA3154A04 | THRUBOLT STUD 3/8-16 X 18.750 | 4.000 EA |
| LB1125C02 | SUPER-E (STOCK CTN LABEL SUPER-E WITH FL | 4.000 EA |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| NP2138L | ALUM SUPER-E UL CSA-EEV PREM CC (300 | 1.000 EA |
| 40PA1000 | PACKAGING GROUP | 1.000 EA |
| LB1506 | LABEL "AMERICAN MADE" 1.50 X 1.00 | 1.000 EA |



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## Accessories

| Part Number | Description | Multiplier |
|---|---|---|
| 40-1400 | C FACE KIT | A8 |



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**AC Induction Motor Performance Data**

Record # 13425 - Typical performance - not guaranteed values

| **Winding:** 40WGW942-R001 | **Type:** 4052M | **Enclosure:** OPSB |
|---|---|---|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|---|---|---|---|---|---|
| Rated Output (HP) | 30 | | | Full Load Torque | 88.9 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 70/35 | | | Breakdown Torque | 272 LB-FT |
| R.P.M. | 1770 | | | Pull-up Torque | 127 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 149 LB-FT |
| NEMA Design Code | B | KVA Code | G | Starting Current | 223.6 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 13.32 A |
| NEMA Nom. Eff. | 94.1 | Power Factor | 85 | Line-line Res. @ 25ºC | 0.237 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 31°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 40°C |
| | | | | Rotor inertia | 4.13 LF² |

Load Characteristics 460 V, 60 Hz, 30 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|---|---|---|---|---|---|---|---|
| Power Factor | 50 | 72 | 82 | 85 | 87 | 87 | 86 |
| Efficiency | 90.3 | 93.6 | 94.2 | 94.1 | 93.6 | 92.7 | 93.8 |
| Speed | 1792 | 1785 | 1777 | 1769 | 1761 | 1752 | 1765 |
| Line amperes | 15.5 | 20.75 | 27.37 | 34.9 | 43 | 52.1 | 39.7 |



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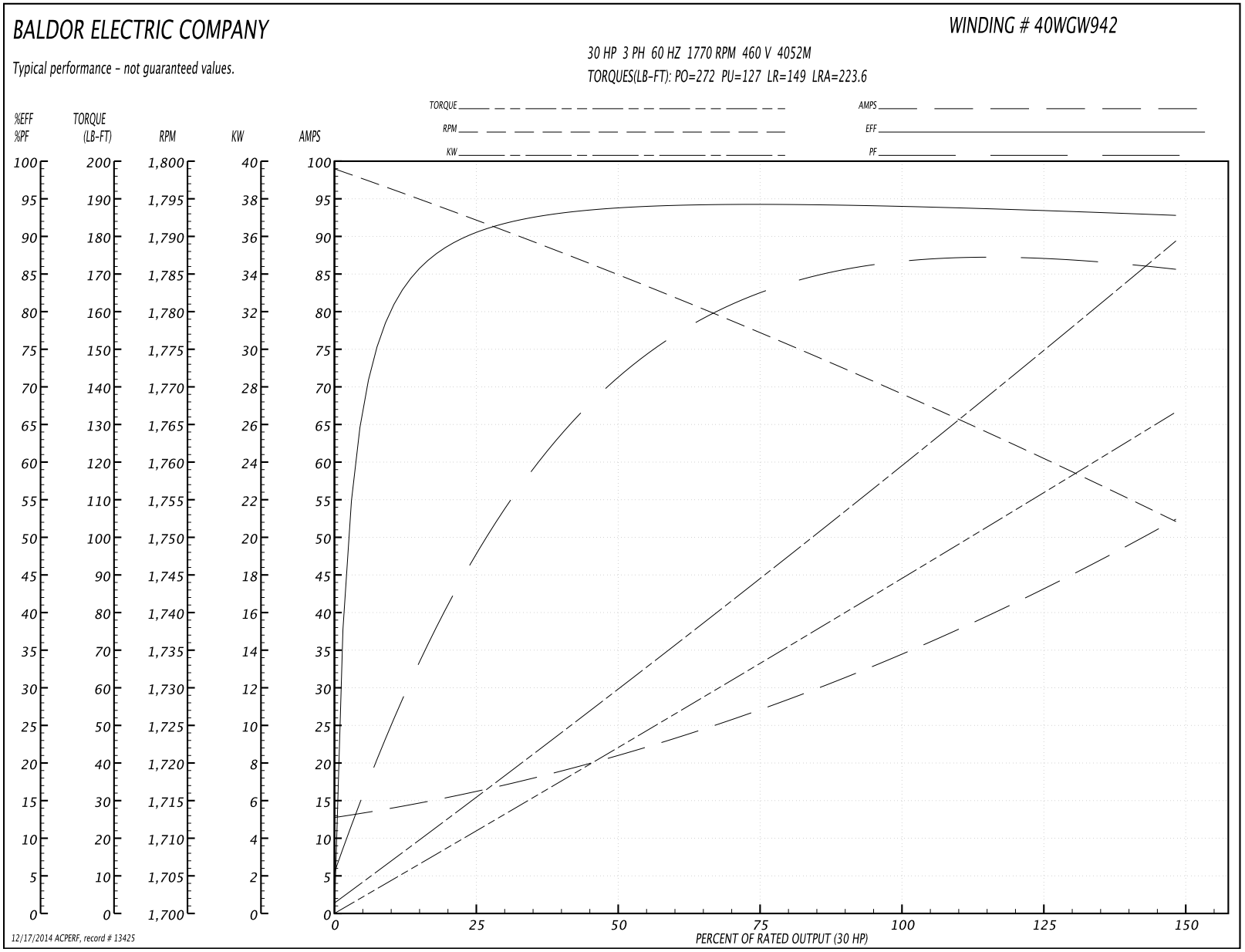
Performance Graph at 460V, 60Hz, 30.0HP Typical performance - Not guaranteed values



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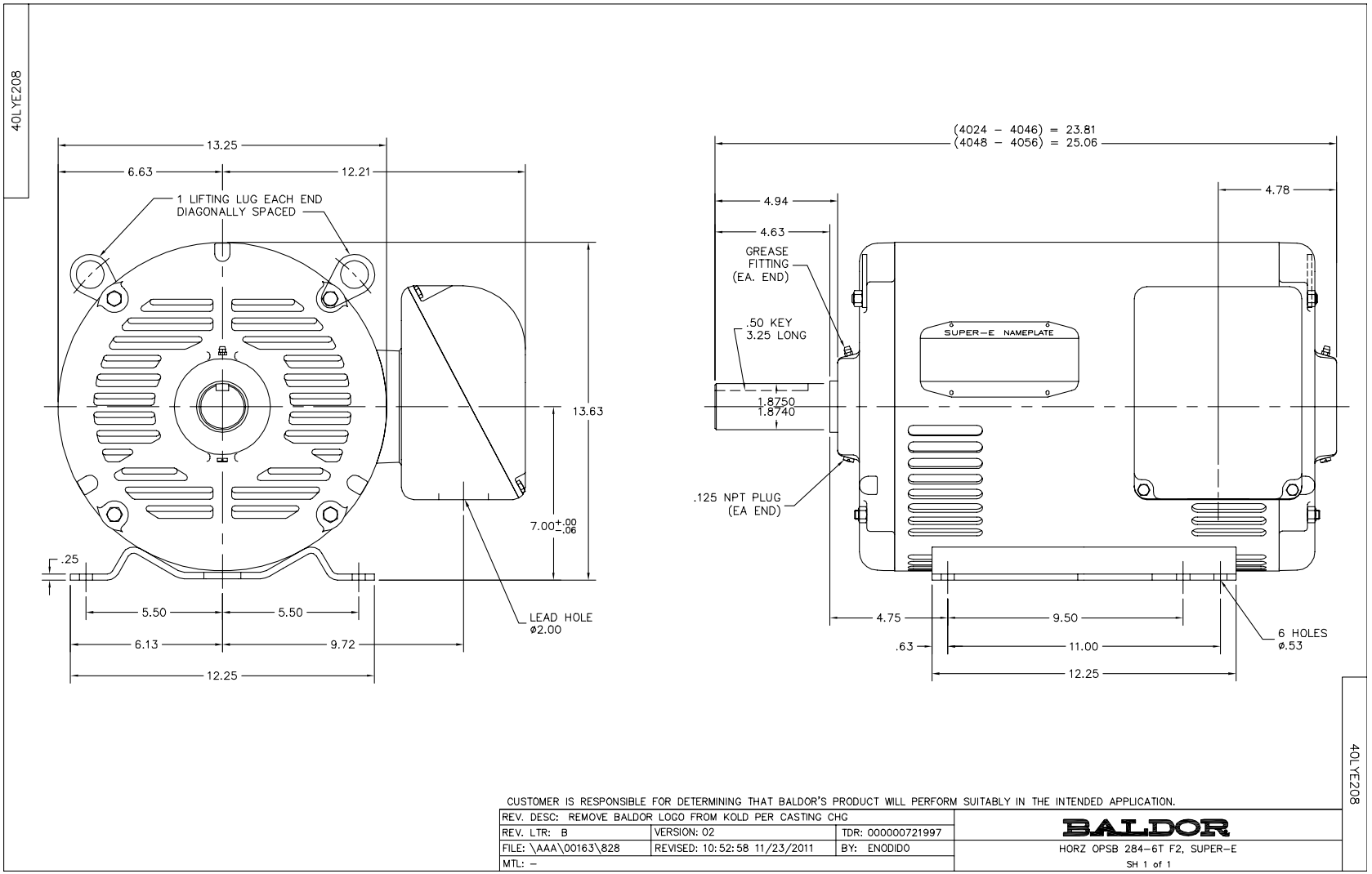


CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

| | | |
|---|---|---|
| REV. DESC: REMOVE BALDOR LOGO FROM KOLD PER CASTING CHG | | |
| REV. LTR: B | VERSION: 02 | TDR: 000000721997 |
| FILE: \AAA\00163\828 | REVISED: 10:52:58 11/23/2011 | BY: ENODIDO |
| MTL: – | | |

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HORZ OPSB 284–6T F2, SUPER–E

SH 1 of 1



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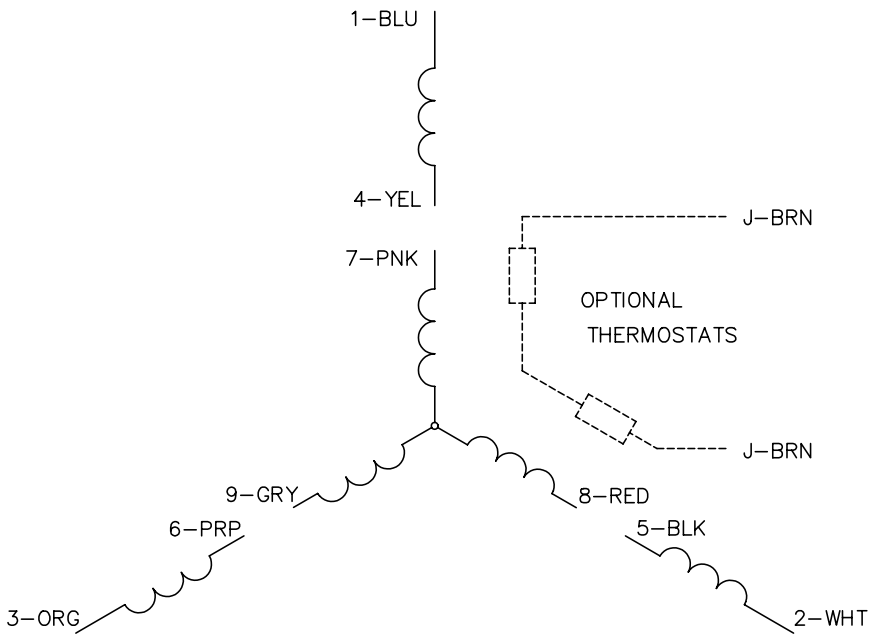
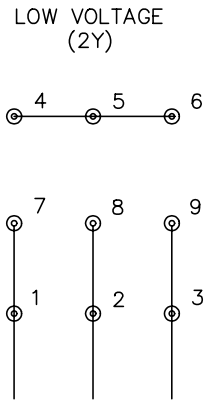
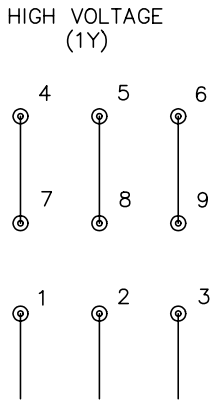
CD0005




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 |



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