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# Customer information packet

## EFM4404T

75HP, 1185RPM, 3PH, 60HZ, 405T, TEFC, FOOT, F2

Class - None

Division - Not Applicable

## Specifications

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Enclosure                     | TEFC                                                             |
| Frame                         | 405T                                                             |
| 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            | 75.000 HP @ 60 HZ                                                |
| Phase                         | 3                                                                |
| Synchronous Speed @ Frequency | 1200 RPM @ 60 HZ                                                 |
| Voltage @ Frequency           | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                               |
| Agency Approvals              | CCSAUSEEV                                                        |
| Ambient Temperature           | 40 °C                                                            |
| Auxiliary Box                 | NO AUXILLARY BOX                                                 |
| Base Indicator                | Rigid                                                            |
| Bearing Grease Type           | Polyrex EM (-20F +300F)                                          |
| Current @ Voltage             | 174.000 A @ 230.0 V<br>190.000 A @ 208.0 V<br>86.900 A @ 460.0 V |
| Design Code                   | B                                                                |
| Drip Cover                    | No Drip Cover                                                    |
| Duty Rating                   | CONT                                                             |
| Efficiency @ 100% Load        | 95.0 %                                                           |
| Feedback Device               | NO FEEDBACK                                                      |
| Heater Indicator              | No Heater                                                        |
| High Voltage Full Load Amps   | 86.9 a                                                           |
| Insulation Class              | F                                                                |
| Inverter Code                 | Inverter Ready                                                   |
| IP Rating                     | NONE                                                             |
| KVA Code                      | G                                                                |
| Lifting Lugs                  | Standard Lifting Lugs                                            |

## Part detail

|              |            |
|--------------|------------|
| Revision     | M          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A40WG0770  |
| Layout       | 617429-629 |
| Eff. date    | 09-04-2024 |
| CD Diagram   | 416820-002 |
| Poles        | 06         |
| Leads        | 3#2,6#4    |
| Proprietary  | False      |
| Created date | 06-07-2014 |

|                                      |                    |
|--------------------------------------|--------------------|
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 2 AWG          |
| <b>Motor Standards</b>               | NEMA               |
| <b>Motor Type</b>                    | A40064M            |
| <b>Mounting Arrangement</b>          | F2                 |
| <b>Number of Poles</b>               | 6                  |
| <b>Overall Length</b>                | 38.04 IN           |
| <b>Power Factor</b>                  | 85                 |
| <b>Product Family</b>                | General Industrial |
| <b>Pulley End Bearing Type</b>       | Ball               |
| <b>Pulley Face Code</b>              | Standard           |
| <b>Service Factor</b>                | 1.15               |
| <b>Shaft Diameter</b>                | 2.875 IN           |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding |
| <b>Shaft Rotation</b>                | Reversible         |
| <b>Shaft Slinger Indicator</b>       | No Slinger         |
| <b>Speed</b>                         | 1185 rpm           |
| <b>Speed Code</b>                    | Single Speed       |
| <b>Starting Method</b>               | Direct on line     |
| <b>Thermal Device - Bearing</b>      | None               |
| <b>Thermal Device - Winding</b>      | None               |

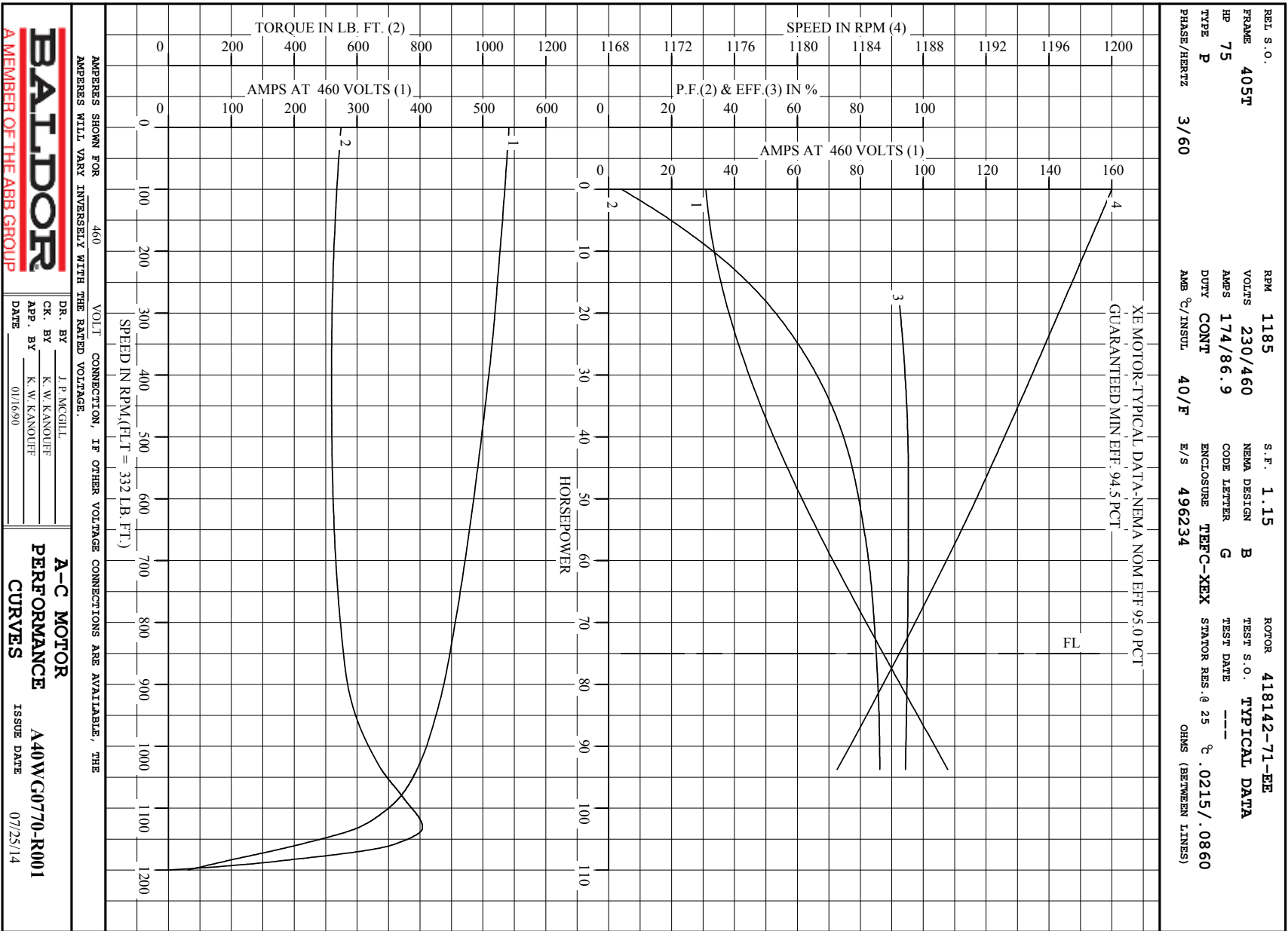
## Nameplate

## NP2349L

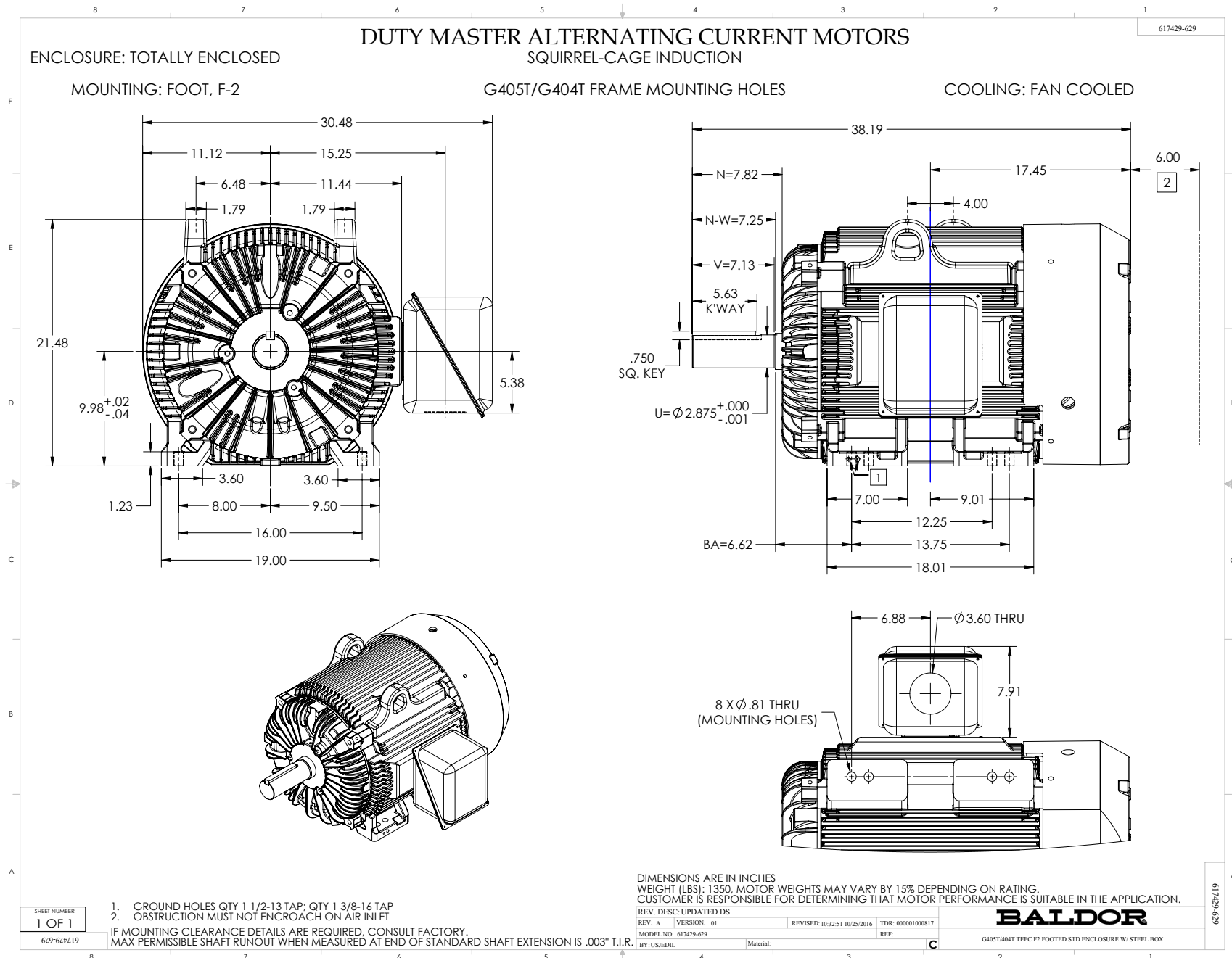
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|-------------------|---------------|-------|----------|--------------|-------------|-------------------------|---------------------|----|-----------------------|------|--------------|------|
| SPEC NO.          | A40-6087-1503 |       |          | CAT.NO.      | EFM4404T    |                         |                     |    | FRAME                 | 405T |              |      |
| HP                | 75            | VOLTS | 230/460  |              | PHASE       | 3                       | DESIGN              | B  | TYPE                  | P    |              |      |
| RPM               | 1185          | AMPS  | 174/86.9 |              | HZ          | 60                      | AMB                 | 40 | SF                    | 1.15 |              |      |
| DRIVE END BEARING | 80BC03J30X    |       | DUTY     | CONT         | INSUL.CLASS |                         |                     | F  |                       |      |              |      |
| OPP D.E. BEARING  | 80BC03J30X    |       | ENCL     | TEFC         | CODE        | G                       |                     |    |                       |      |              |      |
| SER.NO.           |               |       |          | POWER FACTOR | 85          |                         | NEMA-NOM-EFFICIENCY |    |                       |      | 95           |      |
|                   |               |       |          |              |             | MAX CORR KVAR           |                     | 15 | GUARANTEED EFFICIENCY |      |              | 94.1 |
|                   |               |       |          |              |             | NEMA NOM/CSA QUOTED EFF |                     |    |                       |      |              |      |
|                   |               |       |          |              |             |                         |                     |    |                       |      | MOTOR WEIGHT |      |

|                  |  |
|------------------|--|
| NP2496L          |  |
| MOBIL POLYREX EM |  |
|                  |  |

| REL. S.O.                                                                                                                                  | FRAME        | HP                | TYPE                                                                                  | PHASE/HERTZ                                | RPM             | VOLTS    |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|---------------------------------------------------------------------------------------|--------------------------------------------|-----------------|----------|
|                                                                                                                                            | 405T         | 75                | P                                                                                     | 3/60                                       | 1185            | 230/460  |
| AMPS                                                                                                                                       | DUTY         | AMB °C/<br>INSUL. | S.F.                                                                                  | NEMA<br>DESIGN                             | CODE<br>LETTER  | ENCL.    |
| 174/86.9                                                                                                                                   | CONT         | 40/F              | 1.15                                                                                  | B                                          | G               | TEFC-XEX |
| E/S                                                                                                                                        | ROTOR        | TEST<br>S.O.      | TEST<br>DATE                                                                          | STATOR RES. @25 °C<br>OHMS (BETWEEN LINES) |                 |          |
| 496234                                                                                                                                     | 418142-71-EE | ---               | ---                                                                                   | .0215/.0860                                |                 |          |
| PERFORMANCE                                                                                                                                |              |                   |                                                                                       |                                            |                 |          |
| LOAD                                                                                                                                       | HP           | AMPERES           | RPM                                                                                   | POWER<br>%<br>FACTOR                       | EFFICIENCY<br>% |          |
| NO LOAD                                                                                                                                    | 0            | 31.0              | 1200                                                                                  | 4.11                                       | 0               |          |
| 1/4                                                                                                                                        | 18.8         | 37.2              | 1197                                                                                  | 51.1                                       | 92.5            |          |
| 2/4                                                                                                                                        | 37.5         | 50.7              | 1194                                                                                  | 73.0                                       | 95.0            |          |
| 3/4                                                                                                                                        | 56.2         | 67.7              | 1190                                                                                  | 81.6                                       | 95.3            |          |
| 4/4                                                                                                                                        | 75.0         | 86.9              | 1187                                                                                  | 85.1                                       | 95.0            |          |
| 5/4                                                                                                                                        | 93.8         | 108               | 1183                                                                                  | 86.2                                       | 94.4            |          |
| SPEED TORQUE                                                                                                                               |              |                   |                                                                                       |                                            |                 |          |
|                                                                                                                                            | RPM          | % FULL LOAD       | TORQUE<br>LB.-FT.                                                                     | AMPERES                                    |                 |          |
| LOCKED ROTOR                                                                                                                               | 0            | 165               | 549                                                                                   | 541                                        |                 |          |
| PULL UP                                                                                                                                    | 400          | 156               | 519                                                                                   | 509                                        |                 |          |
| BREAKDOWN                                                                                                                                  | 1132         | 243               | 808                                                                                   | 302                                        |                 |          |
| FULL LOAD                                                                                                                                  | 1187         | 100               | 332                                                                                   | 86.9                                       |                 |          |
| AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE |              |                   |                                                                                       |                                            |                 |          |
| REMARKS: TYPICAL DATA                                                                                                                      |              |                   |                                                                                       |                                            |                 |          |
| XE MOTOR-TYPICAL DATA-NEMA NOM EFF 95.0 PCT                                                                                                |              |                   |                                                                                       |                                            |                 |          |
| GUARANTEED MIN EFF. 94.5 PCT                                                                                                               |              |                   |                                                                                       |                                            |                 |          |
| <b>BALDOR</b>                                                                                                                              |              |                   | DR. BY J. P. MCGILL<br>CR. BY K. W. KANOUFF<br>APP. BY K. W. KANOUFF<br>DATE 01/16/90 |                                            |                 |          |
| A MEMBER OF THE ABB GROUP                                                                                                                  |              |                   | A-C MOTOR<br>PERFORMANCE DATA<br>A40WG0770-R001<br>ISSUE DATE 07/25/14                |                                            |                 |          |

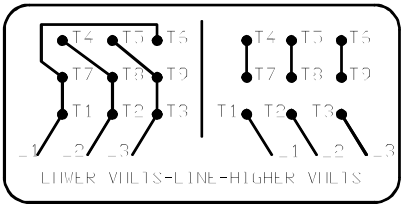
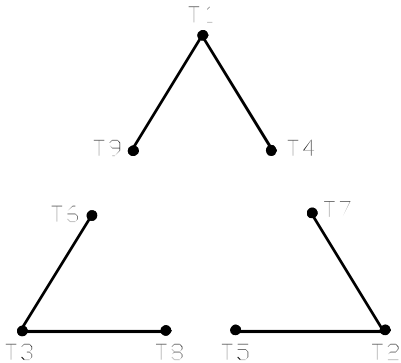


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416820-002

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

|                                           |                              |                   |
|-------------------------------------------|------------------------------|-------------------|
| REV. DESC: FONT CHANGE FOR PDF SEARCHABLE |                              |                   |
| REV. LTR: A                               | VERSION: 01                  | TDR: 000001009382 |
| FILE: \MGA\00000\661                      | REVISED: 02:46:19 02/13/2020 | BY: MGHMTT        |
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BALDOR - RELIANCE®

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED  
SH 1 of 1

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