BALDOR • RELIANCE

# Customer information packet

## JMEWDM4103T

25HP, 1770RPM, 3PH, 60HZ, 284JM, TEFC, F1
Class - None
Division - Not Applicable


8/15/2024 1:24:10 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 284JM |
| **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** | 25.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | NEMA PREMIUM |
| | UR |
| **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** | 60.000 A @ 230.0 V |
| | 30.000 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 93.6 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 30.0 a |

## Part detail

| | |
|---|---|
| **Revision** | C |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 10WGZ624 |
| **Layout** | 10LY-000-754 |
| **Eff. date** | 02-21-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#10 |
| **Proprietary** | False |
| **Created date** | 01-16-2020 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **IP Rating** | NONE |
| **KVA Code** | F |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 1056M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 28.44 IN |
| **Power Factor** | 85 |
| **Product Family** | Washdown Features |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.250 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 1770 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**

| NP1669L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | JMEWDM4103T | | | | | | | | | | |
| **SPEC.** | 10-0000-1310 | | | | | | | | | | |
| **HP** | 25 | | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | | |
| **AMP** | 60/30 | | | | | | | | | | |
| **RPM** | 1770 | | | | | | | | | | |
| **FRAME** | 284JM | | **HZ** | 60 | | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | F | **DES** | B | **CLASS** | F | | | | |
| **NEMA-NOM-EFF** | 93.6 | **PF** | 85 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | 010A | | | | | | | | | | |
| **DE** | 6312 | | **ODE** | 6309 | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | | |
| **BLANK** | 20:1 CT&VT, 1.00SF | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 62434
Typical performance - not guaranteed values

| **Winding:** 10WGZ624-R002 | **Type:** 1056M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 25 | **Full Load Torque** | 74.31 LB-FT |
| **Volts** | | | 460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 30 | **Breakdown Torque** | 197 LB-FT |
| **R.P.M.** | | | 1770 | **Pull-up Torque** | 91.4 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 115 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | F | **Starting Current** | 173 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 10.4 A |
| **NEMA Nom. Eff.** | 93.6 | **Power Factor** | 85 | **Line-line Res. @ 25ºC** | 0.29877 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 54°C |
| | | | | **Locked-rotor Power Factor** | 30.3 |

**Load Characteristics 460 V, 60 Hz, 25 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 51 | 73 | 81 | 85 | 86 | 86 |
| **Efficiency** | 91 | 93.8 | 94.1 | 93.7 | 92.9 | 91.8 |
| **Speed** | 1792.8 | 1785.5 | 1778.9 | 1770.7 | 1762.4 | 1751.5 |
| **Line amperes** | 12.5 | 17 | 22.9 | 29.5 | 36.5 | 44.7 |

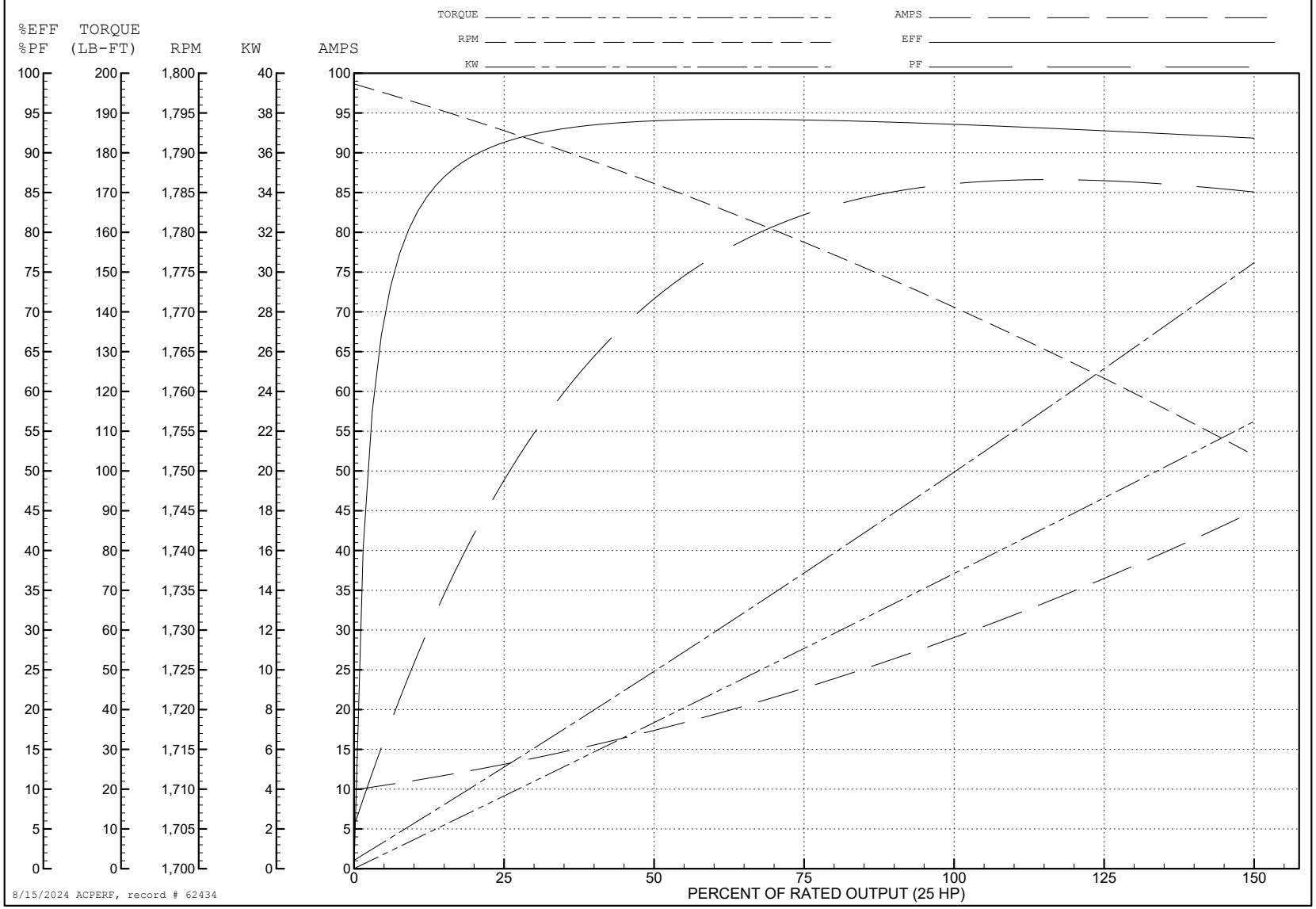
ABB Motors and Mechanical Inc.

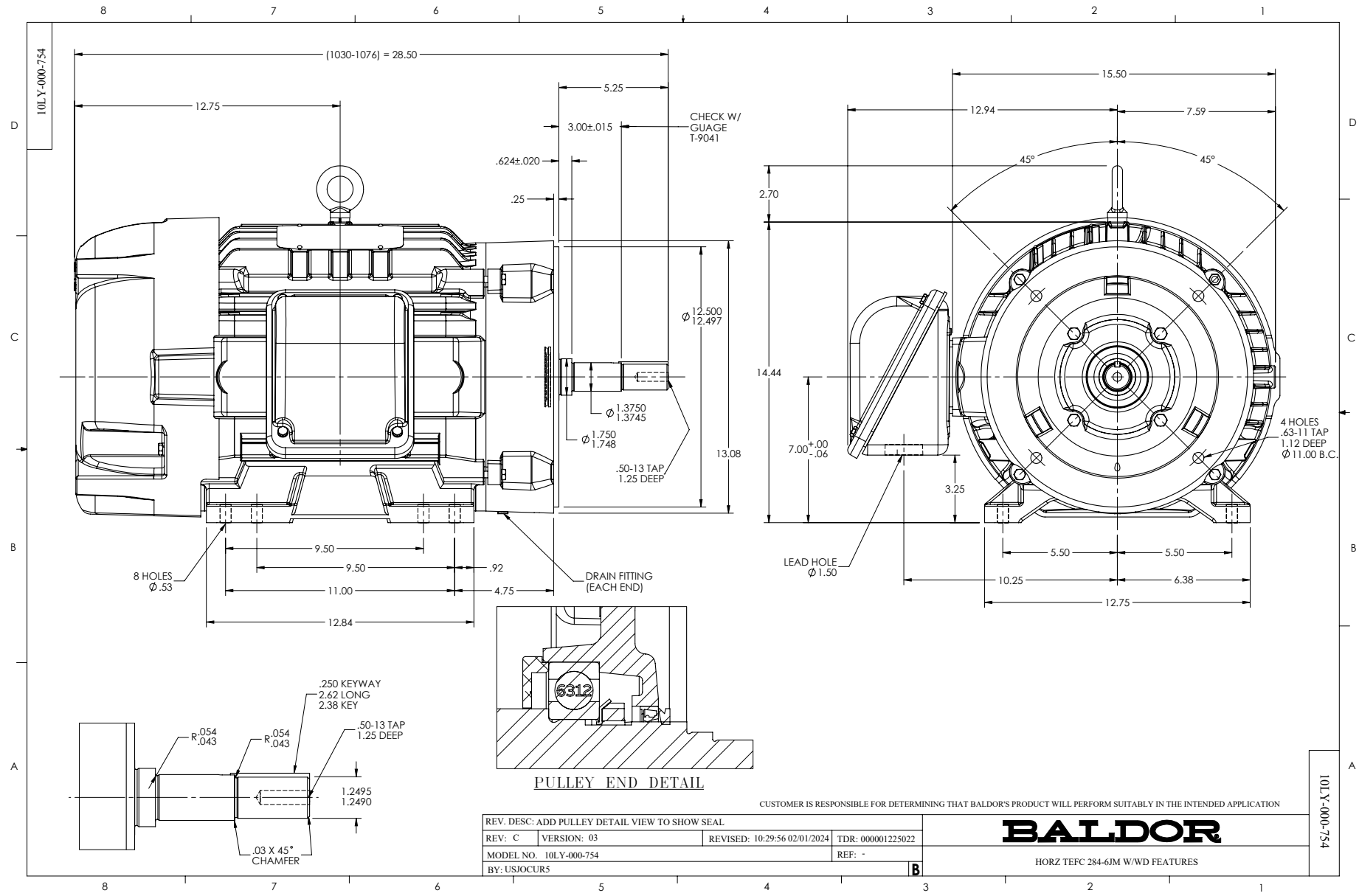
WINDING # 10WGZ624

25 HP 3 PH 60 HZ 1770 RPM 460 V 1056M

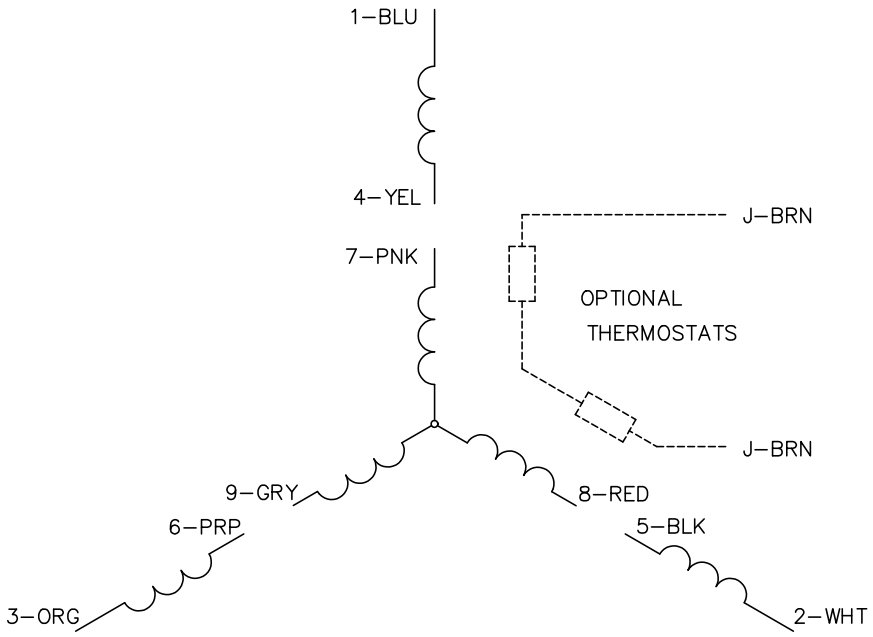
Typical performance - not guaranteed values.

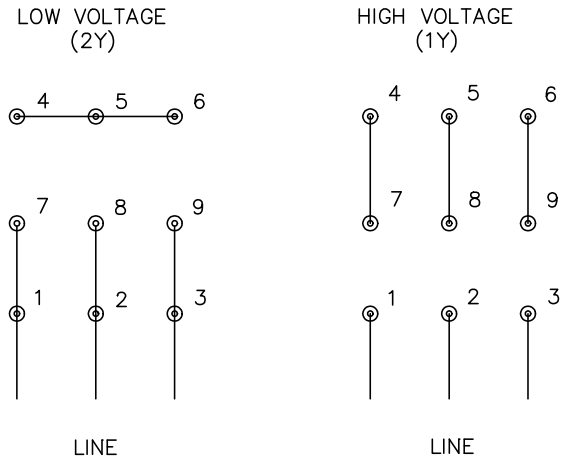
TORQUES(LB-FT): PO=197 PU=91.4 LR=115 LRA=173




10LY-000-754
(1030-1076) = 28.50
12.75
5.25
3.00±.015
CHECK W/ GUAGE T-9041
.624±.020
.25
Ø 12.500 12.497
Ø 1.3750 1.3745
Ø 1.750 1.748
.50-13 TAP 1.25 DEEP
13.08
9.50
9.50
.92
11.00
4.75
12.84
8 HOLES Ø.53
DRAIN FITTING (EACH END)
15.50
12.94
7.59
45°
45°
2.70
14.44
7.00 +.00 -.06
3.25
4 HOLES .63-11 TAP 1.12 DEEP Ø 11.00 B.C.
LEAD HOLE Ø 1.50
5.50
5.50
10.25
6.38
12.75
.250 KEYWAY 2.62 LONG 2.38 KEY
R.054 .043
R.054 .043
.50-13 TAP 1.25 DEEP
1.2495 1.2490
.03 X 45° CHAMFER
6312
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD PULLEY DETAIL VIEW TO SHOW SEAL
REV: C
VERSION: 03
REVISED: 10:29:56 02/01/2024
TDR: 000001225022
MODEL NO. 10LY-000-754
REF: -
BY: USJOCUR5
B
BALDOR
HORZ TEFC 284-6JM W/WD FEATURES
10LY-000-754

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 |