GENERAL & ELECTRIC

277A3826

CONT ON SHEET 2 TITLE Test Specifications 2 7 7 A 3 8 2 6

FIRST MADE FOR 44C331871

REVISIONS

STANDING INSTRUCTIONS

FOR

PHASE UNBALANCE OUTPUT

PRINTED CIRCUIT BOARD

44C331871G01

THEY & NOTES WORK OF Distribution: 4,28,00 DAV

1 QC Test

1 QC Engineering

1 Engineering

3EL1

4QA1 1RA2

4EK1

DL13

PRINTS TO

F.K. Pan DIV OR RK Gerlitz 790108 277A3826 Drive Systems 1110179 7-75-19 Salem, VA. USA LOCATION CONT ON SHEET 2

FF-803 WF (11-77) PRINTED IN U.S.A.

CONT ON SHEET 2 SH NO.

GENERAL & ELECTRIC

277A3826

CODE IDENT NO.

CONT ON SHEET 3 REV NO. TITLE 2 Test Specifications 277A3826 3 2 CONT ON SHEET FIRST MADE FOR 44C331871 REVISIONS Test Emipment Required I. Printed Circuit Board Test Setup - 440931365. Α. Adaptor - Any Mod. II 30 Pin. Patchboard Generrex PB-2. Elementary Rev. 2 (1) 3 (2) 440307401 Drawings 280 LAMP 440331871 Assembly 2 - LOK RESISTORS 440931365 Test Firture 1 - 100K RESISTOR 1-2.7K RESISTOR II. Connection Connect the Amp. Mod. II adaptor cable to PL-1 on the Universal Tester (UT). Connect the power supply cable to "PL3" on the UT, to PL1 on the В. Universal Power Supply (UPS), and to the power supplies per markings. Insert patchboard into carrier of UT and close. C. D. Connect a DC voltmeter to "BJ-1", red (+) and black (-). Install 28 volt 0.04 Dialco lamp in "L27" on the UT. Ε. III. Wire Check Pin to Test Point Resistance (Ohms) 3 1TP ٥ Pin to Pin 28 0 27 29 30 Visual Check 1P, 3P 20K 1K 2R -11R 1K 3ET.1 4R 100K 40A1 13R 100K 1RA2 6R 15K 4EK1 15R 15K DL13 PRINTS TO APPROVALS DIV OR RK Gerlitz 790108 J. K. Pren 277A3826 <u>Drive Systems</u> 11/11/74 1-12-79 Salem, VA USA LOCATION CONT ON SHEET

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CONT ON SHEET 4 SH NO. TITLE Test Specifications

277A3826

4 3 CONT ON SHEET

FIRST MADE FOR 44C331871

REVISIONS

Adjust 22 CCW 112 CW 3P CW

4TB 2-3 5TB 2-3

IV. Setup

- Turn all switches to OFF or Normal on the Universal Tester (UT), A. and the Universal Power Supply (UPS).
- В. Turn all power supplies to zero on the UT and all variacs to zero on the UPS.
- C. Apply main power to the test stand.
- D. Install board under test (BUT) into amp. Mod. II adaptor.

. 9. 459K

3EL1 4QA1 1RA2

4EK1

DL13

PRINTS TO

DIV OR J. R. Pres 790108 Drive Systems 277A3826 1110/77 Salem, VA sн но. 3 USA LOCATION CONT ON SHEET 4 - 12-79 CODE IDENT NO.

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SW 6 = 6RL [connects PN 29 to 24ks]
SW9 = 10KR From 17 to 24v Com
SW3Z 10Kn from 19 to 3

SW28= PIN 27 then /15/15 to 240CEM SW19= PIN 19 to PSA(+) (Note CONN. PSA and 3 to PSA(-) (thru SW. to PIN 19/20 for timens)

PB1 = 2.7Ks from pIN 12 to PIN 10

٧. Electrical Test

- Close "SW-1", "SW-2", and "SW-10" on the Universal Tester (UT). Depress "LPB-1" and adjust PS-1 to 24 ± 0.5 VDC at "BJ-1".
- В. NOTE: Should it become necessary to remove all voltage from the P.C. Board, open "SW-1".

Oc. /\$/

Depress "LPB-2" and adjust PS-2 to 15 ± 0.05 VDC at "BJ-1".

Depress "LPB-3" and adjust PS-3 to 15 ± 0.05 VDC at "BJ-1".

Place "SW-6", "SW-7", A and "SW-28" down.

Close "SW-19". P54 + 19 (-)3 (2776.27) Depress "LPB-7". Adjust PS4 to 1.5 ± 0.005 VDC at "BJ-1".

5w7 CONN 10K Connect an oscilloscope to 4TP (+) and 1TP (-).

Adjust 1P CCW until 4TP just goes to 14.4 ± 0.4 VDC. Remove P.54 Open "SW-19". $(7.4\text{TP}/4) = -13 \pm 1 \text{ VDC}.$

Connect a time interval meter Trigger

5-12-3 Shampkil 5-10 PE - 3E PSN 3 Slope + 4-P EXT TRIS. + 4-P EXT IN + 8-TP YERT IN Start **LIP** 5 ± 1 VDC 5 ± 1 VDC Stop STP

and release

H. Depress/2PB on PC Board.

Close "SW-19".

Counter

Counter Counter shall start then stop as follows:

> 2P Time .05 \pm 0.005 seconds CW CCW .95 \pm 0.1 seconds Set $.1 \pm 0.005$ seconds

Note alarm light shall energize and remain energized when counter stops.

3EL1 4QA1 1RA2

> 4EK1 DL13

PRINTS TO

APPROVALS RK Gerlitz ON OR 790108 To R. Pre Drive Systems 277A3826 1/10/74 Salem, VA 7-15-10 USA LOCATION CONT ON SHEET 5 CODE IDENT NO.

277A3826 CONT ON SHEET 6 5 TITLE Test Specifications 277A3826 FIRST MADE FOR 44C331871 CONT ON SHEET SH NO. REVISIONS Open "SW-19". DISCOUNDERT To repeat timing: Wait approximately 20 seconds. Depress and release reset 2PB on PC Poord. (Alarm light deenergizes). I. Open "SW-19". DISCONNECT P5-4 Move 5TB jumper to terminals 1-2. Close "SW-19". Counter should start then stop.9 ±.1 seconds later. \$\frac{1}{2}\frac{1}{2 Connect a time interval meter J. Trigger Slope Start 5TP $5 \pm 1 \text{ VDC}$ Stop 5 + 1 VDC 9TP Common 1TP Adjust PS-4 to 7.5 \pm 0.005 VDC at "BJ- \parallel " (2) Connect an oscilloscope to 5TP (+) and 1TP (-). K. Adjust 3P CCW until 5TP just goes to 14.4 ± 0.4 VDC. Open "SW-19". **Land** release DepressylPB on the P.C. Board. L. Close "SW-19". Counter shall start then stop as follows: 60 42 H Time CW .05 ± 0.005 Seconds CCM •95 ± 0.1 Seconds Set •5 ± 0.05 Seconds Note TRIP light shall energize and remain energized when counter stops. To repeat timings: Open "SW-19". Wait approximately 20 seconds. Depress and release 1PB on P.C. Board. (Trip light deenergizes). __ M. Open "SW-19". Move 4TB jumper to terminals 1-2. Close "SW-19". Counter should start then stop 1.26 \pm .1 seconds later. Open "SW-19". CONNERT 1 3EL1 Theorees and telephold by but the Board Close trip lockout sw on PCB. 40A1 DElete Depress PB-4". DE/ete
Trip lockout light, TRIP light and ALARM light shall deenergize. 1RA2 Release "PB-4". MUST DO STERE 4EK1 Trip lockout light, TRIP light and ALARM light shall energize. "M'aao":N" DL13 IN ORDER PRINTS TO MAGE BY RK Gerlitz DIV OR 790108 Drive Systems 277A3826 1110177 Salem, VA USA LOCATION CONT ON SHEET 6 SH NO. 5 CODE IDENT NO.

FF-903 WF (11-77)

Drive Systems

Salem, VA USA

5 RPm

1110/79

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TRUED

RK Gerlitz

1-12-79

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