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GE Industrial Systems

Functional Testing Specification

*Renewal Services
Louisville, KY*

LOU-GED-DS3820FE1

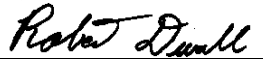
Test Procedure for a DS3820FE1

DOCUMENT REVISION STATUS: Determined by the last entry in the "REV" and "DATE" column

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	J. Wychulis	07/26/02
B			
C			

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PREPARED BY J. Wychulis	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL 
DATE 25JUL02	DATE	DATE	DATE 07/26/02

Functional test procedure for a DS3820 FE1 assembly

1. SCOPE

1.1 This is a functional testing procedure for a DS3820FE1 assembly.

2. STANDARDS OF QUALITY

2.1 Refer to the current revision of the IPC-A-610 standard for workmanship standards.

3. APPLICABLE DOCUMENTS

3.1 The following document(s) shall form part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue shall apply.

3.1.1 **DS3820FE1 documentation folder**

4. ENGINEERING REQUIREMENTS

4.1 Equipment Cleaning

4.1.1 Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to the local documented procedures for cleaning guidelines.

4.2 Equipment Inspection

4.2.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

- 4.2.1.1 Wires broken or cracked
- 4.2.1.2 Terminal strips / connectors broken or cracked
- 4.2.1.3 Loose wires
- 4.2.1.4 Components visually damaged
- 4.2.1.5 Capacitors leaking
- 4.2.1.6 Solder joints damaged or cold
- 4.2.1.7 Circuit board burned or de-laminated
- 4.2.1.8 Printed wire runs burned or damaged

5. EQUIPMENT REQUIRED

5.1 The following equipment is required to perform the process requirements. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

Qty	Reference #	Description
1		Fluke 85 DMM (or Equivalent)
1		O Scope
1		Inductive Load
1		480 VAC Power Source

6. TESTING PROCESS

6.1 Setup

6.1.1 480vac to L1,L2,L3 inductive load to TB1-3

6.2 Testing Procedure

6.2.1 Power up unit

6.2.2 Output should be 300vdc +/- 30v

6.2.3 Check for wave form on scope

6.3 *****TEST COMPLETE*****

7. NOTES

8. Oscilloscope Verification Examples:

Fig. 1

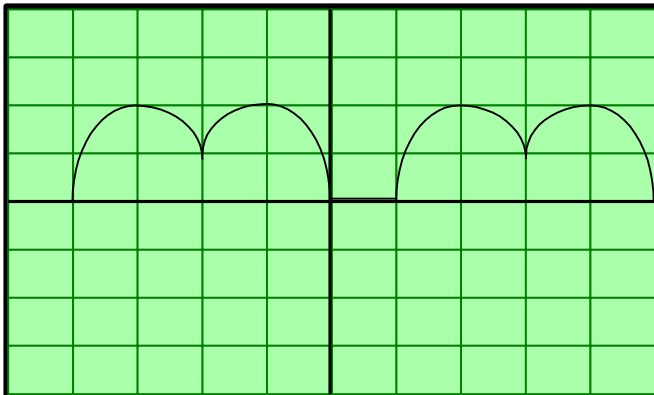


Fig. 2

