



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-36C774345AAG01

Test Procedure for DB Contactor Assembly

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A	Initial release	James Archibald	09/21/2011
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1. SCOPE

1.1 This is a functional testing procedure for a Contactor 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 Check unit's electronic folder for more information.

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 site specific SRA's 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, cracked, or loosely connected

4.2.1.2 Terminal strips / connectors - broken or cracked

4.2.1.3 Components - visually damaged

4.2.1.4 Capacitors - bloated or leaking

4.2.1.5 Solder joints - damaged or cold

4.2.1.6 Circuit board - burned or de-laminated

4.2.1.7 Printed wire runs / Traces - 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)

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6. TESTING PROCESS

6.1 Setup and Test

- 6.1.1 Set meter to diode check. Put meter + lead on CFU1 and – on DW and meter should read approx .3 to .6 volts.
- 6.1.2 Put meter + lead on CFU2 and meter should read approx .3 to.6 volts.
- 6.1.3 Put = meter lead on DZ and meter should read approx .3 to.6 volts
- 6.1.4 Set meter to resistance. Check between PCPL pin 1 and 2 meter should read 18 to 22 ohms.
- 6.1.5 Set meter to resistance put – lead to CFU1 and + to DW meter should read 112k +/- 10%.
- 6.1.6 Move – lead to CFU2 meter should read 112K +/- 10%.
- 6.1.7 With meter set to resistance check between DZ and AF meter should read 82 ohms +/- 10%.
- 6.1.8 Measure between CFU3 and KF meter should read approx 0 ohms.
- 6.1.9 Static check R37 and 38 they should read 82 ohms +/- 10%.
- 6.1.10 Set meter to capacitor and check C6 and 7 meter should read 0.1 uf +/-10%

6.2 ***TEST COMPLETE **

7. NOTES

- 7.1 None at this time.

8. ATTACHMENTS

- 8.1 None at this time.