

g

GE Energy

Functional Testing Specification

*Inspection & Repair Services
Louisville, KY*

LOU-GED-DS200PCCAG5

Test Procedure for a DS200PCCAG5 power connect card

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial Release	K. Greenwell	10/13/08
B	Change transformer Part# to 323A2335P2 in 6.1.1 & 6.1.2	L. Groves	7/18/2011

© COPYRIGHT GENERAL ELECTRIC COMPANY

Hard copies are uncontrolled and are for reference only

PROPRIETARY INFORMATION – THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF GENERAL ELECTRIC COMPANY AND MAY NOT BE USED OR DISCLOSED TO OTHERS, EXCEPT WITH THE WRITTEN PERMISSION OF GENERAL ELECTRIC COMPANY.

PREPARED BY Kenny Greenwell	REVIEWED BY L. Groves	REVIEWED BY	QUALITY APPROVAL <i>Charlie Wade</i>
DATE 10/28/2008	DATE 7/18/2011	DATE	DATE 10/28/2008

Functional test procedure for a DS2000 Power Connect Card.

1. **SCOPE**

1.1 This is a functional testing procedure for a DS200PCCAG5 power connect card.

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 GEK85769A or GEJ7301

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 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		100 Ohm Resistor
1		SCR firing box
1		O-Scope
1		BNC to Banana jack adapter
1		24Vdc power supply

LOU-GED-DS200PCCAG5 REV. B	<div data-bbox="548 201 581 252" data-label="Image"></div> <div data-bbox="737 258 980 333" data-label="Text"> <p>GE Energy Parts & Repair Services Louisville, KY</p> </div>	Page 3 of 5
---------------------------------------	--	--------------------

6. TESTING PROCESS

6.1 Visual Test

- 6.1.1 Verify that T1F through T6F are part number 323A2335P2.
- 6.1.2 Verify that T1R through T6R are part number 323A2335P2.
- 6.1.3 Verify that R1, R3, R5, R7, R9 and R11 are 15-OHM 5W resistors.
- 6.1.4 Verify that R13, R15, R17, R19, R21, and R23 are 15-OHM 5W resistors.
- 6.1.5

6.2 Pulse Circuit Test

- 6.2.1 Connect 5PL22 to positive output of 24V dc power supply.
- 6.2.2 Connect 5PL1 to NEGATIVE non-isolated connection on SCR firing box.
- 6.2.3 Connect negative output of 24V dc power supply to COM on non-isolated side of SCR firing box.
- 6.2.4 Connect Scope to 6FPL (Common to pin 1 and Signal to pin 2).
- 6.2.5 Set scope Vertical to 5 V/div and Horizontal to .2 mSec/div.
- 6.2.6 Verify SCR firing box is set to NORMAL and apply power.
- 6.2.7 Turn output to max and verify loaded output signal is above 10Vpp and remains steady throughout adjustment range of SCR firing box. See Figure 2 next page. Removing 100-ohm load on scope leads should allow output to increase to above 15Vpp.

7. NOTES

Figure 2


