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GE Industrial Systems

**Functional Testing Specification**

*Renewal Services  
Louisville, KY*

**LOU-GED-44C359029-A**

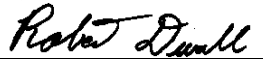
**Test Procedure for a 44C359029G01**

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REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Paul Kelley	8/29/2003
B	Corrected relay contact test.	Paul Kelley	9/24/2003
C			

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## Functional test procedure for 44C359029G01

### 1. SCOPE

1.1 This is a functional testing procedure for a 44C359029G01 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

### 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		44C359029G01 Test Strip
1		0 to 150 VDC Supply
1		FLUKE 85 DMM

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## 6. TESTING PROCESS

### 6.1 Setup

- 6.1.1** Connect the terminal strip as shown in Fig. 1 below. Set the power supply to 0 volts. Connect the positive and negative of the supply to the indicated points as shown in the diagram.



#### **Note:**

### 6.2 Testing Procedure

- 6.2.1** On the bottom terminal strip verify F to H indicate open relay contacts and F to G indicate closed relay contacts.
- 6.2.2** On the side terminal strip verify B to C indicate open relay contacts and B to A indicate closed relay contacts.
- 6.2.3** Raise the power supply to 150 volts.
- 6.2.4** On the bottom terminal strip verify F to H indicate closed relay contacts and F to G indicate open relay contacts.
- 6.2.5** On the side terminal strip verify B to C indicate closed relay contacts and B to A indicate open relay contacts.
- 6.2.6** Verify 92 to 105 volts across the zener as shown in Fig. 1.
- 6.2.7** Lower the power supply to 90 volts.
- 6.2.8** On the bottom terminal strip verify F to H indicate open relay contacts and F to G indicate closed relay contacts.
- 6.2.9** On the side terminal strip verify B to C indicate open relay contacts and B to A indicate closed relay contacts.
- 6.2.10** Remove all power and connections made for the test.

### 6.3 **\*\*\*TEST COMPLETE\*\*\***

## 7. NOTES

8. Drawings:

Fig. 1

