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GE Industrial Systems

**Functional Testing Specification**

*Renewal Services  
Louisville, KY*

**LOU-GED-IC3600TSKA**

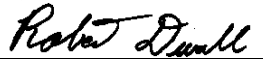
**Test Procedure for an IC3600TSKA Startup Control and Suicide Card**

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## Functional test procedure for a Startup Control and Suicide Card

### 1. SCOPE

1.1 This is a functional testing procedure for an IC3600TSKA

### 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		Fluke 85 DMM (or Equivalent)
2		0-+5VDC Power Supplies
1		+67DC Power Supply
1		Rainbow Box
1		IC3600 Interface Box

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## 6. TESTING PROCESS

### 6.1 Setup

- 6.1.1 Connect +67VDC between pins 24(+) and pins 1 or 51(-). *Do not turn on power at this time.*
- 6.1.2 Connect pins 45, 46 and 48 through a 500 ohm, .5W resistor (a resistor for each pin) to +5VDC and common. (Pin 1 or 51) *Do not turn on power at this time.*

### 6.2 Testing Procedure

- 6.2.1 Monitor pin 45 with DVM, turn on +5VDC power and verify +5VDC on DVM.
- 6.2.2 Turn on +67VDC power and DVM should fall to less than +1VDC then quickly rise back to +5VDC level. Remove all power supplies and allow card to discharge to less than 1mVDC.
- 6.2.3 Monitor pin 46, repeat step 6.2.2 and you should get same results.
- 6.2.4 Monitor pin 48, repeat step 6.2.2 and you should get same results. Remove +5VDC but leave +67VDC on card.
- 6.2.5 Verify 10K ohms (+/- 10%) between pins 20 and 6.
- 6.2.6 Verify 0 ohms between pins 20 and 8.
- 6.2.7 Apply 3VDC to pin 25 using pin 1 or 51 as common.
- 6.2.8 Verify an open between pins 20 and 6.
- 6.2.9 Verify an open between pins 20 and 8.

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

## 7. NOTES