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GE Industrial Systems

**Functional Testing Specification**

*Renewal Services  
Louisville, KY*

**LOU-GED-IC3622GSDE**

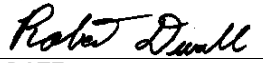
**Test Procedure for a Solenoid Driver Card IC3622GSDEx**

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

| REV. | DESCRIPTION   | SIGNATURE  | REV. DATE |
|------|---|------------|-----------|
| A    | Initial release   | P. Kelley  | 10/13/94  |
| B    | Total re-write of procedure. GPTC test is now inoperable. | D. Laemmle | 11/19/02  |
| C    |   |            |           |

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|----------------------------------|--------------------|--------------------|--|
| <b>PREPARED BY</b><br>D. Laemmle | <b>REVIEWED BY</b> | <b>REVIEWED BY</b> | <b>QUALITY APPROVAL</b><br> |
| <b>DATE</b><br>11/19/02          | <b>DATE</b>        | <b>DATE</b>        | <b>DATE</b><br>11/20/02  |

|   |   |                           |
|---|---|---------------------------|
| <p><b>LOU-GED-IC3622GSDE<br/>REV. A</b></p> | <p><b>g</b></p> <p><b>GE Industrial Systems</b><br/>Renewal Services<br/>Louisville, KY</p> | <p><b>Page 2 of 3</b></p> |
|---|---|---------------------------|

1. Functional test procedure for **IC3622GSDE1,2**

1.1 This is a functional testing procedure for a IC3622GSDE1,2 Solenoid Driver 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.

2.1.1

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   |             | 100 watt 120v lamp |
| 1   |             | 15VDC supply       |
|     |             |                    |
|     |             |                    |
|     |             |                    |

## 6. TESTING PROCESS

### 6.1 Setup

#### 6.1.1

### 6.2 Testing Procedure

**6.2.1** Circuit #1. Connect a 100 watt light bulb load from AC2 Pin 42 to Com, Pin 1. Connect a 15v DC supply (+) to Pin 27, (-) to Pin 1. Connect ISOLATED 115VAC line to AC1 Pin 34 and neutral to Pin 1. Apply power. The load lamp should not light nor any of the neons. Connect Circuit #1 IN ( Pin 2) to Com.(Pin 1). The light bulb load should light and DS1 neon lamp on card should light also. Remove and reconnect the com connection to Pin 2 several times to test relay operation.

**6.2.2** Circuit #2. Move 100 watt lamp, ISOLATED AC and IN connector to corresponding Pins of Circuit #2 per chart and test the same as Circuit #1.

**6.2.3** Circuit #3. Same as Circuit #2 per chart.

**6.2.4** Circuit #4. Same as Circuit #2 per Chart.

| Circuit # | IN | AC1 | AC2 | Neon |
|-----------|----|-----|-----|------|
| 1         | 2  | 34  | 42  | DS1  |
| 2         | 4  | 36  | 44  | DS2  |
| 3         | 6  | 38  | 46  | DS3  |
| 4         | 8  | 40  | 48  | DS4  |

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

## 7. NOTES