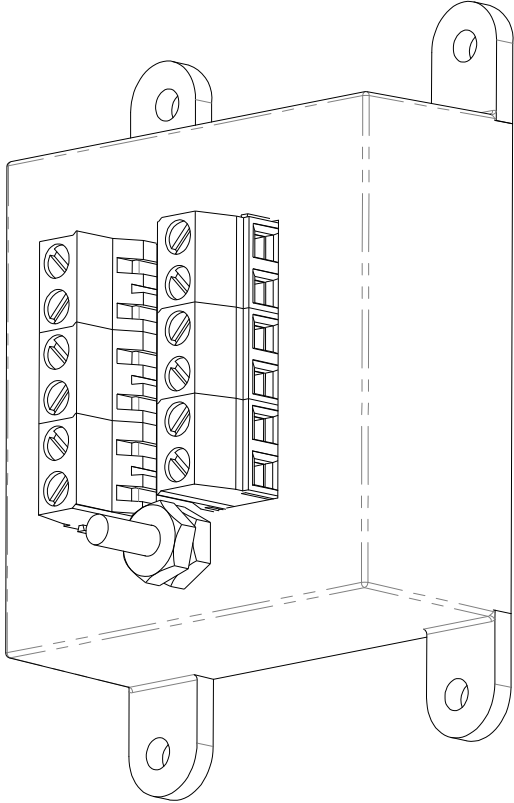


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**REVISIONS**

| LTR | DESCRIPTION           | ECO NUM. | DATE    | APPROVED |
|-----|-----------------------|----------|---------|----------|
| A   | UPDATE CONNECTIONS    | 2180     | 4/5/99  |          |
| B   | UPDATE CONNECTORS     | 2237     | 5/17/99 |          |
| C   | UPDATE OPERATING TEMP | 7746     | 12/3/08 | DWR      |
| D   | UPDATE COMPONENT VIEW | 10444    | 2/13/12 | LC       |

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UNLESS OTHERWISE SPECIFIED DIM. IN INCHES BEFORE PLATING

MATERIAL:  
NOTED

|                           |                 |
|---------------------------|-----------------|
| DRAWN:<br><b>JDW</b>      | DATE<br>3/15/99 |
| CHECKED:<br><b>CKW</b>    | 5/24/99         |
| ENGR. APPD:<br><b>JAH</b> | 5/25/99         |
| PROJ. APPD:<br><b>DLR</b> | 5/24/99         |
| APPROVED:                 |                 |



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TITLE:

**FSP 4004 MC  
SPECIFICATION**

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|                  |                      |                                     |                 |
|------------------|----------------------|-------------------------------------|-----------------|
| SIZE<br><b>A</b> | CAGE<br><b>30992</b> | DRAWING NUMBER<br><b>1400-321-4</b> | REV<br><b>D</b> |
| SCALE = N/A      |                      | PAGE 1 OF 3                         |                 |

## SURGE SUPPRESSOR Model: FSP 4004 MC

1. **GENERAL DESCRIPTION:** The FSP 4004 MC surge suppressor is a high-speed, high-current solid state device designed to protect RS 422, 4-20 ma Double Wire Pair (4-Wire) configurations and other balanced pair applications from transient over voltages. **The FSP 4004 MC uses only silicon suppression components.** It connects to the equipment and line via two (2), six (6) position terminal blocks.

2. **PERFORMANCE REQUIREMENTS:**

2.1. **Electrical Service:**

- 2.1.1. **Service Voltage** ..... 120 VDC
- 2.1.2. **Configuration** ..... 2 balanced pairs + 2 shields
- 2.1.3. **Input Connection** ..... Terminal Blocks
  - 2.1.3.1. **Number of connector positions** ..... 6 in 6 out
- 2.1.4. **Protection Modes** ..... Line to Line, Line to GND (No protection on shield)
- 2.1.5. **Maximum Continuous Operating Voltage** ..... 145 VDC

2.2. **Electrical Performance:**

2.2.1. **Testing:**

- 2.2.1.1. ... Tested to IEEE 10/1000
  - 2.2.1.1.1. Long Wave ..... Ipk 21.4 A peak
- 2.2.2. **Response Time (Max)** ..... 5 nanoseconds
- 2.2.3. **Standby Power (Max)** ..... < 0.05 Watt
- 2.2.4. **Operating Temperature** ..... -40°C to +65°C

2.3. **Mechanical:**

2.3.1. **Enclosure Description:** The suppressor is housed in a molded plastic enclosure that is 2.2 in long, 2.2 in wide and 0.9 in tall.

3. **ENVIRONMENTAL:**

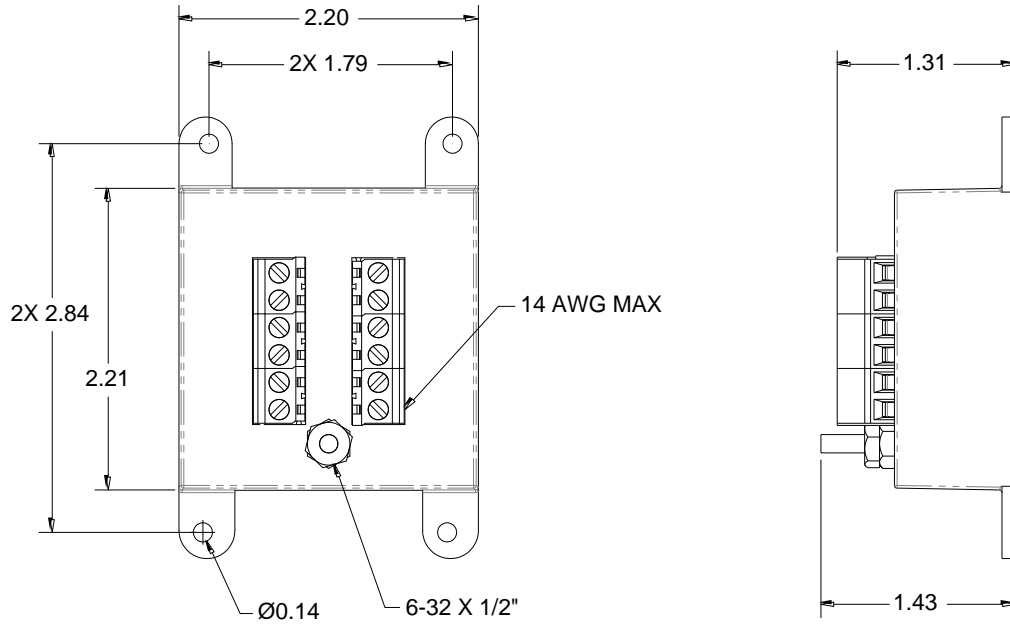
- 3.1. **Operating Temperature:** ..... -40°C to +65°C
- 3.2. **Storage Temperature:** ..... -40°C to +65°C
- 3.3. **Relative Humidity:** ..... 90%



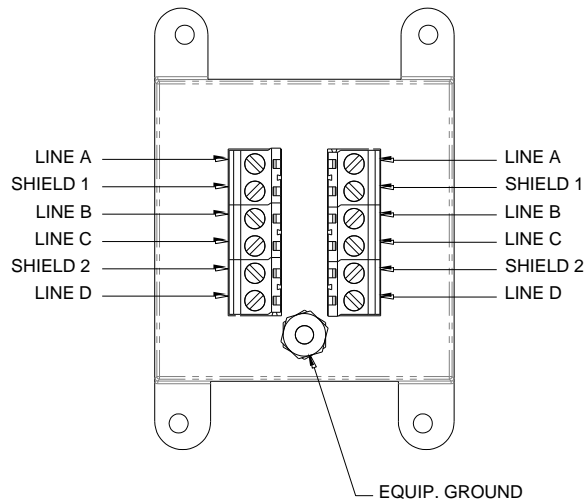
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|             |       |            |             |
|-------------|-------|------------|-------------|
| SIZE        | CAGE  |            |             |
| A           | 30992 | 1400-321-4 | D           |
| SCALE = N/A |       |            | Page 2 OF 3 |

#### 4. MECHANICAL DETAIL



ALL DIMENSIONS NOMINAL



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SIZE  
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CAGE  
**30992**

**1400-321-4**

**D**

SCALE = N/A

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