Introduction

Since 1980, Eaton’s Innovative Technology has provided Surge Protective Devices (SPDs) to power quality equipment users around the world. Whatever your electrical surge protection need may be, Eaton’s Innovative Technology has a Surge Protective Device to fill it!

General Features

- Description — 4 kA, series wired, Multi-stage hybrid Active Tracking Network (ATN®) surge protective device and EMI/RFI multi-pole filter
- Application — Dedicated dc power circuits operating at 48 Vdc, ≤10 Amps, power supplies, micro-processor based loads, and other mission critical and general purpose individual loads
- Warranty — 5-Year Free Replacement
- Manufacturer Qualifications — ISO® 9001:1994 Quality System Certification BSI FM 30833

Mechanical and Electrical Features

- Enclosure — ABS Plastic UL® 94V-0
- Connection — 14 AWG stranded wire
- Shipping Weight — ≈ 1 lb (0.45 kg)
- Operating Temperature — -40°F (-40°C) to +140°F (+60°C)
- Protection Modes — Discrete All Mode Pos-Neg (normal mode)
- Input Power Frequency — 0 – 60 Hz (ac)
- Response Time — <1 nanosecond
- Maximum Continuous Operating Current — 10 Amps

Maximum EMI/RFI Attenuation — Mil-Std-220

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>1 kHz</th>
<th>10 kHz</th>
<th>100 kHz</th>
<th>1 MHz</th>
<th>10 MHz</th>
<th>Maximum Attenuation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 dB</td>
<td>15 dB</td>
<td>47 dB</td>
<td>39 dB</td>
<td>16 dB</td>
<td>77 dB @ 2.3 MHz</td>
</tr>
</tbody>
</table>

Performance Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Peak Surge Current</th>
<th>MCOV</th>
<th>A1</th>
<th>A3</th>
<th>B3/C1</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV48DC2LER</td>
<td>4 kA</td>
<td>56 Vdc</td>
<td>2 kV</td>
<td>6 kV</td>
<td>6 kV</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>67 A</td>
<td>200 A</td>
<td>3 A</td>
</tr>
<tr>
<td>Measured Limiting Voltage *</td>
<td>Pos-Neg</td>
<td>Pos-Neg</td>
<td>Pos-Neg</td>
<td>Pos-Neg</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Test environment: all units tested at wire ends, time base = 10 µs. All measurements referenced from zero volts per NEMA LS-1.