DC Surge Protector SPD I2R Indoor DIN-Rail 24 Vdc, Single-Mode, 5 kA SASD IEC EN 60529

1104-11-001
I2R IEP 24-5

Features
- SASD Surge Protector
- Visual Suppression Status Indicator
- Dry Contact Remote Annunciation Terminals
- Replaceable Suppression Modules
- DIN-Rail Mount

Applications
- Industrial Automation
- Controls & Sense Loops
- Telecommunications Base Stations
- IT & Data Centers
- Wastewater Treatment
- Rail
- Oil & Gas
- LED Lighting

Description
DC surge protector (also known as SPD or lightning protector) 1104-11-001 from Transtector is an IEC EN 60529 DIN-Rail style SPD that utilizes state of the art SASD technology to protect critical equipment that operates on a 24 Vdc electrical service. This surge protector provides effective protection against electrical transient surges that are generated both by external lightning events and by internal switching events and supports long-term system reliability by safely shunting high amounts of transient energy while maintaining a very low clamping voltage. Transtector DC surge protectors are available in stock with same day shipping.

Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Voltages</td>
<td>24</td>
<td></td>
<td></td>
<td>Vdc</td>
</tr>
<tr>
<td>Maximum Continuous Operating Voltage (MCOV)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCOV DC</td>
<td></td>
<td></td>
<td>28</td>
<td>Vdc</td>
</tr>
</tbody>
</table>

Surge Protection Specification

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surge Protection Technology</td>
<td>SASD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surge Protection Modes</td>
<td>Supply to RET</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response Time</td>
<td>1</td>
<td></td>
<td></td>
<td>ns</td>
</tr>
<tr>
<td>8/20µs Surge Current</td>
<td>5</td>
<td></td>
<td></td>
<td>kA</td>
</tr>
<tr>
<td>VPL 8/20µs L-G</td>
<td>95 @ 2500A</td>
<td></td>
<td></td>
<td>Vpk</td>
</tr>
<tr>
<td>Nominal Discharge Surge Current (In)</td>
<td>2.5</td>
<td></td>
<td></td>
<td>kA</td>
</tr>
</tbody>
</table>

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications:
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Mechanical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>3.54 in [89.92 mm]</td>
</tr>
<tr>
<td>Width</td>
<td>0.69 in [17.53 mm]</td>
</tr>
<tr>
<td>Depth</td>
<td>2.38 in [60.45 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>1 lbs [453.59 g]</td>
</tr>
<tr>
<td>Housing Material and Plating</td>
<td>PA66</td>
</tr>
</tbody>
</table>

Environmental Specifications

Temperature
- Operating Range: -40 to +80 deg C
- Storage Range: -40 to +80 deg C

Environmental Protection (IP) Rating: IP20
Humidity: 95% non-condensing

Installation

Mount Type: DIN-Rail
Service Wiring Terminal:
- Screw Clamp Terminal: #6 AWG Stranded
- Service Terminal Wire 2: #4 AWG Solid
- Status Indication Terminal: #22 to #16 AWG
- 3-Position Screw Terminal

Compliance Certifications

RoHS Compliant: Yes
Certifications: IEC EN 60529

Transtector Systems specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Transtector reserves the right to make such changes.
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as required. Unless otherwise stated, all specifications are nominal. Transtector does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Transtector does not assume any liability arising out of the use of any part or documentation.
3-POS SCREW TERMINAL FOR REMOTE SUPPRESSION STATUS WIRING

REPLACEABLE I2R SUPPRESSION MODULE

VISUAL SUPPRESSION STATUS INDICATOR

DIN-RAIL MOUNTING FOOT

2X COMPRESSION LUGS FOR SERVICE WIRING