DC Surge Protector SPD DCPM Indoor DIN-Rail 12, 24, 28, 48 Vdc, Full-Mode, 60 kA MOV HEMP Tested

**HT-DI-DCPM-48D**
DCPM HT

### Features
- EMP Protection Level 3
- Tested for HEMP and Conducted and Induced Lightning
- Dual-Mode DC Protection
- Fail-Short Technology
- Compression Lug Wiring
- 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) HT-DI-DCPM-48D from Transtector is an EMP Protection Zone 3 DIN-Rail style SPD that utilizes state of the art MOV technology to protect critical equipment that operates on a 48 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>12/24/28/48</td>
<td>Vdc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Rating</td>
<td>120</td>
<td>A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Continuous Operating Voltage</td>
<td>75</td>
<td>Vdc</td>
<td></td>
<td></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>MOV</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surge Protection Modes</td>
<td>DC+ to DC-, DC+ to GND, DC- to GND</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response Time</td>
<td>25</td>
<td>ns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8/20µs Surge Current</td>
<td>20</td>
<td>60</td>
<td>kA</td>
<td></td>
</tr>
<tr>
<td>10/350µs Surge Current</td>
<td>5</td>
<td></td>
<td>kA</td>
<td></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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**HT-DI-DCPM-48D**  
DCPM HT

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1 20/500ns Surge Current</td>
<td>5 kA</td>
</tr>
<tr>
<td>E2 1.5/3000µs Surge Current</td>
<td>250 A</td>
</tr>
<tr>
<td>VPR 8/20µs L-G</td>
<td>330 Vpk</td>
</tr>
<tr>
<td>VPL 8/20µs L-G</td>
<td>650 Vpk</td>
</tr>
<tr>
<td>SCCR (Short Circuit Current Rating)</td>
<td>25 kAIC</td>
</tr>
</tbody>
</table>

**Mechanical Specifications**

**Size**
- Height: 4.61 in [117.09 mm]
- Width: 1.68 in [42.67 mm]
- Depth: 2.88 in [73.15 mm]
- Weight: 2 lbs [907.18 g]
- Housing Material and Plating: Plastic

**Environmental Specifications**

**Temperature**
- Operating Range: -35 to +80 deg C
- Storage Range: -35 to +80 deg C

**Installation**

- Mount Type: DIN-Rail
- Service Wiring Terminal: #14 to #10 AWG
- Spring Cage Clamp: #14 to #10 AWG
- Status Indication Terminal: #30 to #14 AWG
- 2 Pin Connector: #30 to #14 AWG

**Compliance Certifications**

- RoHS Compliant: Yes
- UL Compliant: Yes
- Certifications:
  - UL 1449 4th Ed.
  - IEC 61643-11

**Standards**

- HEMP Tested per MIL-STD-188-125
- EMP Protection Levels: Levels 1, 2, 3

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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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HT-DI-DCPM-48D CAD Drawing

- Replaceable HEMP Tested DCPM Suppression Module
- Flip-Open Latch Handle
- Compression Lugs for Service Wiring
- 2-POS Screw Terminal for Remote Suppression Status Wiring
- DIN-Foot for Mounting

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