Surge Protection Devices

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Voltage Surge Protectors

TVS — Cooper Bussmann® Surge™

Specifications

Description: DIN rail mount voltage surge protection system for AC or DC voltage using diode or MOV technology.

Dimensions: See Dimensions illustration.

Construction:
Suppressor Module: 20% glass-filled PES (Polyethersulfone) case with 110 copper terminals with electroless tin plating.
DIN Rail Mount Holder: 15% glass-filled PBT (Polybutylene terephthalate) case with electroless tin-plated CDA 7025 interface clips lubricated with fluoroether grease, copper box lugs and stainless steel DIN rail springs.

Ratings*:
- 12Vdc (2kA surge current)
- 24Vdc (2kA surge current)
- 48Vdc (2kA surge current)
- 120Vac (7kA-18kA surge current)
- 240Vac (7kA-18kA surge current)

Agency Information: UL Recognized (UL 1449) for AC products, (UL 497B) for DC products, CSA Approved.

Catalog Numbers

<table>
<thead>
<tr>
<th>Catalog Numbers</th>
<th>Voltage Application</th>
<th>MCOV</th>
<th>Technology</th>
<th>SVR 500A, 8x20μs</th>
<th>Surge Current Rating</th>
<th>Agency Information</th>
<th>Label Color</th>
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<tbody>
<tr>
<td>TVS120CD</td>
<td>12Vdc</td>
<td>14Vdc</td>
<td>SASD</td>
<td>36Vdc</td>
<td>2kA</td>
<td>UL 497B</td>
<td>Red</td>
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<tr>
<td>TVS240CD</td>
<td>24Vdc</td>
<td>28Vdc</td>
<td>SASD</td>
<td>58Vdc</td>
<td>2kA</td>
<td>UL 497B</td>
<td>White</td>
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<td>TVS480CD</td>
<td>48Vdc</td>
<td>57Vdc</td>
<td>SASD</td>
<td>90Vdc</td>
<td>2kA</td>
<td>UL 497B</td>
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<td>TVS120ACD</td>
<td>120Vac</td>
<td>140Vac</td>
<td>SASD</td>
<td>330Vac</td>
<td>7kA</td>
<td>UL 1449</td>
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<td>TVS120ACM</td>
<td>120Vac</td>
<td>140Vac</td>
<td>MOV</td>
<td>500Vac</td>
<td>18kA</td>
<td>UL 1449</td>
<td>Grey</td>
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<tr>
<td>TVS240ACD</td>
<td>240Vac</td>
<td>280Vac</td>
<td>SASD</td>
<td>600Vac</td>
<td>7kA</td>
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<td>MOV</td>
<td>800Vac</td>
<td>18kA</td>
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</table>

To see our entire surge protection device portfolio, contact your Cooper Bussmann sales representative, the factory or visit our website.

Data Sheet: 9006

For product data sheets, visit www.cooperbussmann.com/datasheets/ulcsa

This document provided by Barr-Thorp Electric Co., Inc.  800-473-9123    www.barr-thorp.com
Surge Protection Limiters

TVSS

Specifications

Description: Surge protection limiters designed to protect TVSS systems. Apply in conjunction with TVS voltage surge protector to provide complete surge protection. Able to withstand 8x20 µSec surge pulses without opening. Limiters are identified by a surge rating and not continuous current rating. Available with optional printed circuit board tabs.

Dimensions: See Dimensions illustration.

Construction: Melamine tube with nickel-plated brass end caps.

Ratings*:

- Volts: — 600Vac
- IR: — 200kA RMS Sym.

* See Catalog Numbers table for all specifications pertaining to specific ratings.

Agency Information: CE, UL Recognized 600Vac, File E56412. Designed to protect TVSS systems per UL 1449 Second Edition requirements.

Features and Benefits

- Optional tabs for mounting on printed circuit board.

Catalog Numbers

<table>
<thead>
<tr>
<th>Catalog Numbers</th>
<th>8x20µS Surge Rating</th>
<th>Melting I^t (A Sec)</th>
<th>Clearing I^t (A Sec)</th>
<th>Ipeak @ 100kA 60Hz (A)</th>
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<tbody>
<tr>
<td>TVSS-5</td>
<td>5,000A</td>
<td>559</td>
<td>1,850</td>
<td>4,283</td>
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<tr>
<td>TVSS-10</td>
<td>10,000A</td>
<td>1,768</td>
<td>5,768</td>
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<td>TVSS-15</td>
<td>15,000A</td>
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<td>9,730</td>
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</table>

Above catalog numbers are available with printed circuit board tabs. When ordering, use suffix “-01”.

Recommended fuse blocks/fuse holders for ⅜” x 1½” fuses

- See Data Sheets
  - Open fuse blocks - 1104, 2104
  - Finger-safe fuse holders - 1109, 1102, 1103, 2053
  - Panel-mount fuse holders - 2114, 2113, 2108
  - In-line fuse holders - 2127, 2126

Data Sheet: 2141
Fuse Kits & Accessories
Have Products on Hand to Make Electrical Service and Repair Faster and Safer