The Bourns® Model 1320 Series is a DC power Surge Protective Device ( SPD) designed to protect power systems from damage due to lightning, transients and power surges. The Model 1320 Series is a DIN Rail mountable SPD targeted for systems ranging from 12 to 110 Vdc.

### Features
- Matched high energy MOV
- Internal thermal disconnects
- Status indicator
- Replaceable modular design
- DIN Rail compatible base
- Remote signalling capability
- Standards compliance:
  - RoHS compliant*

### Applications
- DC power systems

### General Information

**Electrical Characteristics**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1320-S-12</td>
</tr>
<tr>
<td>Network Voltage (Un)</td>
<td>12 Vdc</td>
</tr>
<tr>
<td>Max. Operating Voltage (Uc)</td>
<td>24 Vdc</td>
</tr>
<tr>
<td>Nominal Discharge Current (In)</td>
<td>10 kA</td>
</tr>
<tr>
<td>Max. Discharge Current (I_{max})/8/20 μs max.</td>
<td>20 kA</td>
</tr>
<tr>
<td>Protection Level @ In (Up)</td>
<td>250 V</td>
</tr>
<tr>
<td>Protective Fuses or Circuit Breakers, if applicable</td>
<td>20 A</td>
</tr>
<tr>
<td>Thermal Disconnector</td>
<td>Internal</td>
</tr>
</tbody>
</table>

#### General Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1320-S-12</td>
</tr>
<tr>
<td>Connection</td>
<td>By Screw Terminal, Cross-section 1.5-10 mm² (Active Wire) and 2.5-25 mm² (Grounding Wire)</td>
</tr>
<tr>
<td>Disconnection Indicator</td>
<td>2 Mechanical Indicators</td>
</tr>
<tr>
<td>Mounting</td>
<td>DIN Rail, 35 mm Symmetrical</td>
</tr>
<tr>
<td>Remote Signal Indicator</td>
<td>DS2xOS-xxDC) by Changeover Contact</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>Thermoplastic UL 94V0</td>
</tr>
<tr>
<td>Weight</td>
<td>128 g/unit</td>
</tr>
</tbody>
</table>

#### Environmental Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1320-S-12</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 °C to +85 °C</td>
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<tr>
<td>Environmental Rating</td>
<td>IP 20</td>
</tr>
</tbody>
</table>

#### Standards Compliance

- UL1449 3rd Edition - USA ....................... Type 4, Type 2 Location
- UL1449 3rd Edition - Canada.................. Type 4, Type 2 Location
- CSA C22.2 No. 8-M1986...................... Class 9091 32, Class 9091 92
- IEC61643-1 - International ...............Low Voltage SPD - Test Class II
- NF EN 61643-11 - France ...............Low Voltage SPD - Test Class II
- UL Recognized component, UL File E153537

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Users should verify actual device performance in their specific applications.
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1320 Series DC Power Surge Protective Device

Product Dimensions

How To Order

1320 - S - xxx

Series
Remote Signalling Code
S = Remote Signalling
DC Operating Voltage
12 = 12 V
24 = 24 V
48 = 48 V
75 = 75 V
110 = 110 V

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