



Features

- Matched high energy MOV
- Internal thermal disconnects
- Status indicator
- Replaceable modular design
- DIN Rail compatible base
- Remote signalling capability
- Standards compliance: CE  

- RoHS compliant*

Applications

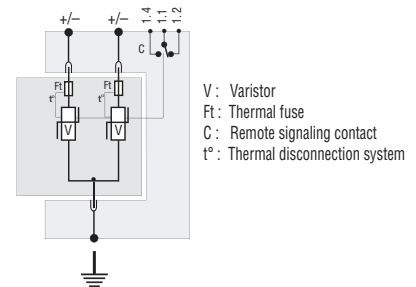
- DC power systems

1320 Series DC Power Surge Protective Device

General Information

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.

Electrical Diagram



Electrical Characteristics

| Characteristic | Model No. | | | | |
|--|-----------|-----------|-----------|-----------|------------|
| | 1320-S-12 | 1320-S-24 | 1320-S-48 | 1320-S-75 | 1320-S-110 |
| Network Voltage (Un) | 12 Vdc | 24 Vdc | 48 Vdc | 75 Vdc | 110 Vdc |
| Max. Operating Voltage (Uc) | 24 Vdc | 38 Vdc | 65 Vdc | 100 Vdc | 150 Vdc |
| Nominal Discharge Current (In) | 10 kA | 10 kA | 15 kA | 20 kA | 20 kA |
| Max. Discharge Current (Imax) 8/20 μs max. | 20 kA | 20 kA | 30 kA | 40 kA | 40 kA |
| Protection Level @ In (Up) | 250 V | 250 V | 300 V | 390 V | 500 V |
| Protective Fuses or Circuit Breakers, if applicable | 20 A | 20 A | 20 A | 50 A | 50 A |
| Thermal Disconnect | Internal | | | | |

General Characteristics

| Characteristic | Model No. | | | | |
|-------------------------|--|------------|------------|------------|------------|
| | 1320-S-12 | 1320-S-24 | 1320-S-48 | 1320-S-75 | 1320-S-110 |
| Connection | By Screw Terminal, Cross-section 1.5-10 mm ² (Active Wire) and 2.5-25 mm ² (Grounding Wire) | | | | |
| Disconnection Indicator | 2 Mechanical Indicators | | | | |
| Mounting | DIN Rail, 35 mm Symmetrical | | | | |
| Remote Signal Indicator | DS2xOS-xxDC) by Changeover Contact | | | | |
| Enclosure Material | Thermoplastic UL 94V0 | | | | |
| Weight | 128 g/unit | 128 g/unit | 128 g/unit | 128 g/unit | 130 g/unit |

Environmental Characteristics

| Characteristic | Model No. | | | | |
|-----------------------|------------------|-----------|-----------|-----------|------------|
| | 1320-S-12 | 1320-S-24 | 1320-S-48 | 1320-S-75 | 1320-S-110 |
| Operating Temperature | -40 °C to +85 °C | | | | |
| Environmental Rating | IP 20 | | | | |

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

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

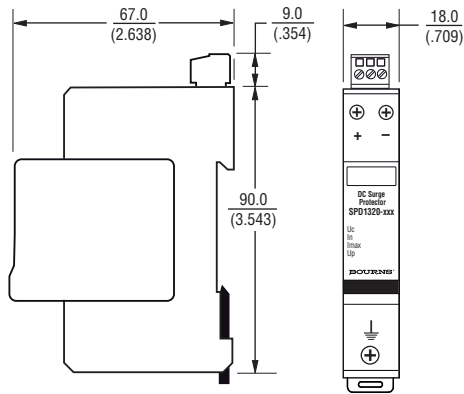
Users should verify actual device performance in their specific applications.

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1320 Series DC Power Surge Protective Device

BOURNS®

Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

How To Order

Series 1320 - S - xxx
Remote Signalling Code S
S = Remote Signalling
DC Operating Voltage xxx
12 = 12 V
24 = 24 V
48 = 48 V
75 = 75 V
110 = 110 V

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REV. 10/19

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