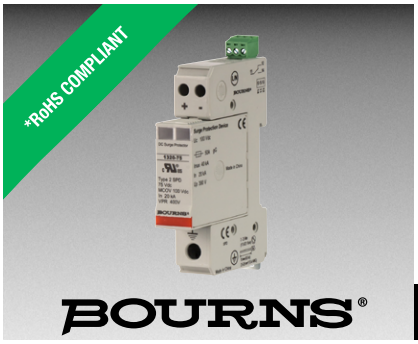



## Features

- 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

# 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.

## Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

## 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 ($I_{max}$) 8/20 $\mu$s 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 Disconnector | Internal | | | | |

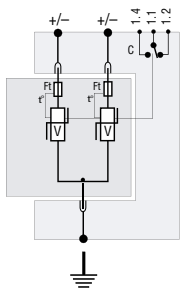
## General Characteristics

| 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 mm² (Active Wire) and 2.5-25 mm² (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 | | | | |

## Electrical Diagram




*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.
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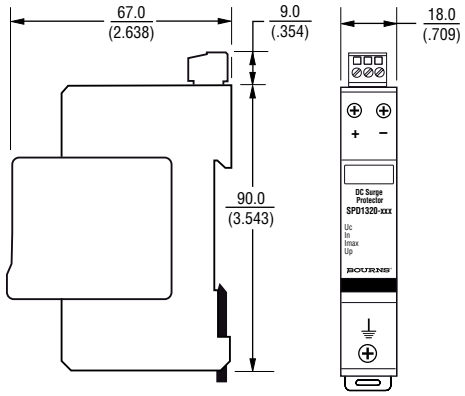
# 1320 Series DC Power Surge Protective Device

BOURNS®

## Product Dimensions




DIMENSIONS: MM / (INCHES)

## Standards Compliance

UL1449 5th Edition - USA..... Type 4, Type 2 Location
UL1449 5th 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 E313168

## 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

## Agency Recognition

| Agency | Category | Agency File No. |
|---|---|---|
| c UL us | UL1449 - 5th Ed. | E313168 |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