

BOURNS®

New Product Release

SURGE PROTECTIVE DEVICES

May, 2013

Bourns Expands Line of Surge Protective Device (SPD) Products

Bourns is pleased to announce the release of several new series of Surge Protective Devices which will significantly expand the current offering of this product line.

AC Surge Protective Devices

The Bourns® [Model 1210 Series](#) Heavy Duty AC SPD and [1250 Series](#) General Duty AC SPD are two new lines of DIN Rail mountable AC surge protective devices. These protectors are designed to be installed close to sensitive equipment downstream from the main circuit breaker. Per UL 1449 requirements, these devices are Type 4 SPDs, designed to be installed into Type 2 applications. The Model 1250 Series is a General Duty AC SPD with a maximum discharge current rating of 50 kA (8/20 μ s), whereas the Model 1210 Series is a Heavy Duty AC SPD with a maximum discharge current rating of 100 kA (8/20 μ s). Both series comply with standards UL 1449 3rd edition and IEC 616343-1.

Model 1210 Features

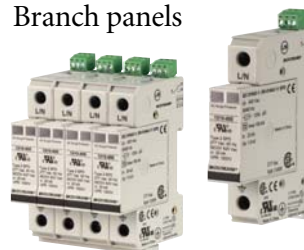
- 100 kA max. discharge current rating
- Multi-pole uni-block design
- DIN Rail mountable
- UL 60691 compliant integrated thermal disconnect
- Visual fault indicator
- Remote signaling capability
- RoHS compliant*

Model 1250 Features

- 50 kA max. discharge current rating
- Multi-pole uni-block design
- DIN Rail mountable
- UL 60691 compliant integrated thermal disconnect
- Visual fault indicator
- Remote signaling capability
- Compact design ideal for limited spaces
- RoHS compliant*

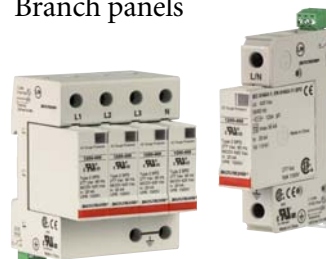
Model 1210 Applications

- Electrical service entrance
- Branch panels



Model 1250 Applications

- Electrical service entrance
- Branch panels



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

DC Surge Protective Devices

The Bourns® [Model 1320 Series](#) DC Power SPD is a DIN Rail mountable SPD designed to protect systems operating at 48, 75 and 110 Vdc. The Model 1320 Series has a maximum discharge current rating of up to 40 kA (8/20 μ s) and is recognized per UL 1449 3rd edition and IEC 61643-1.

The Bourns® [Model 1420 Series](#) DC Power SPD for photovoltaic applications is designed to protect photovoltaic systems operating up to 1200 Vdc. This series incorporates a hybrid MOV/GDT design which provides an enhanced level of protection and long term performance. The DIN Rail mountable devices have a maximum lightning surge current rating of 40 kA (8/20 μ s) per pole and are recognized to UL 1449 3rd edition and IEC 61643-1 requirements.

Model 1320 Features

- Matched high energy MOV
- Internal thermal disconnects
- Status indicator
- Replaceable modular design
- DIN Rail compatible base
- Remote signaling capability
- RoHS compliant*

Model 1320 Applications

- DC power supplies



Model 1420 Features

- Hybrid MOV/GDT design
- No leakage over life
- DIN Rail mountable
- 40 kA maximum impulse current rating
- Minimal footprint within DC power system
- Uni-block design with replaceable modules
- Visual fault indicator
- RoHS compliant*

Model 1420 Applications

- DC power applications up to 1200 Vdc



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Signal and Data Line Surge Protective Devices

The Bourns® [Model 1500 Series](#) Gigabit Ethernet SPD is designed to protect highly-exposed Gigabit Ethernet equipment from the effects of lightning and other transients. The Model 1500 Series design incorporates the Bourns® TBU® High-Speed Protector technology providing an enhanced level of protection and performance. The series is offered in a grounded version as well as an isolated version for installations where no ground is available. The Model 1500 Series is listed per UL 497B requirements.

Model 1500 Features

- GDT/TBU® High-Speed Protector technology
- Low impulse let-through
- High surge current rating
- 10/100/1000 data compatibility
- Available in isolated and grounded versions
- 5 kV isolation

Model 1500 Applications

- Data communications
- Highly exposed Ethernet
- 1000 Base-T Gigabit Ethernet
- Indoor/controlled environment installations
- Telecommunications and industrial installations



Coaxial Surge Protective Devices

The Bourns® [Model 1977](#) High Frequency Coaxial SPD Series of high performance, coaxial SPDs are designed to protect antennas, broadband, microwave, GPS, cellular and CATV installations against surges caused by lightning and other electrical transients. This series incorporates GDT technology, providing a flat response over a 5 GHz frequency range. The Model 1977 is water resistant and available with N or F-type connectors.

Model 1977 Features

- Heavy duty design
- High frequency DC-5 GHz
- DC Pass to ± 48 V
- VSWR <1.2
- Low insertion loss <0.1 dB
- Bidirectional
- Water resistant
- Replaceable gas tube
- Three grounding options
- RoHS compliant*

Model 1977 Applications

- Multi-point radio and backhaul bridges
- Tower Mounted Amplifiers (TMA)
- Antenna systems
- Tower Top Electronics (TTE)
- Antenna systems
- WiFi
- Wimax broadband wireless



Please visit www.bourns.com for the full line of SPD products available. Product data sheets with detailed specifications can be viewed on the Bourns website.

If you have any questions or need additional information, please contact [Customer Service/Inside Sales](#).