

Eaton SP2 surge protection device Compact, cost-effective surge protection

With a wide range of voltages and configurations to meet equipment protection needs in light commercial and machine control panel applications, the SP2 delivers superior surge protection and eliminates the need for additional overcurrent protection—reducing space, cost and downtime.

Eaton SP2 benefits

Enhance equipment protection: Tap a wide range of voltage-specific models to protect electrical systems and equipment better than a "one-size-fits-all" or economy SPD solution.

Reduce costs: Lower equipment and installation costs with the SP2's unique thermal disconnect technology, which mitigates the need for additional equipment investments in overcurrent devices.

Maximize space: Simplify installation and control panel building with the SP2's compact form-factor.

Simplify troubleshooting and maintenance: Obtain real-time status of surge protection devices with highly visible LED indicators that provide surge protection status at a glance.

Increase deployment flexibility: Apply the SP2 in indoor or outdoor environments with a compact UV-resistant NEMA® 4X enclosure. The device can also be used on single-phase, split-phase and wye and delta systems to simplify equipment protection.

Powering Business Worldwide

Product features

FATON

- · Short-circuit current rating (SCCR) of 200 kAIC
- · Voltages from 120 to 600 Vac
- Peak surge current (I_{max}) rating of 45 kA
- Nominal discharge current (In) rating of 10 kA
- Eight part numbers
- · Can be used for UL 96A compliance
- Can be used for NFPA 780 compliance
- Two-year warranty

Standards and certifications

- Type 1 UL 1449 4th Edition and UL 1283 7th Edition listed
- · Designed and tested to:
- IEEE® C62.41.1

• IEEE C62.43-2005

- IEEE C62.45-2002 • IEEE C62.41.2
 - IEEE C62.48-2005
 - IEEE C62.62-2010
- RoHS compliant



SP2 for light commercial and UL 508A panel applications

SP2 surge protection device model selection guide

Nominal system voltage	Maximum continuous operating AC voltage (MCOV)	System type	Voltage protection ratings (VPR)	Connection points	Catalog number
120	150	Single-phase, two-wire	700 L-N	2	SP2-120
240	320	Single-phase, two-wire	1200 L-N	2	SP2-240
120/240	150	Split-phase, three-wire	700 L-N, 120 L-L	3	SP2-240S
240	320	Three-phase delta, three-wire + ground	1200 L-G, 2500 L-L	4	SP2-240D
480	550	Three-phase delta, three-wire + ground	1800 L-G, 3000 L-L	4	SP2-480D
120/208	150	Three-phase wye, three-wire + ground	700 L-G, 1200 L-L	4	SP2-208Y
277/470	320	Three-phase wye, three-wire + ground	1200 L-G, 2500 L-L	4	SP2-480Y
347/600	420	Three-phase wye, three-wire + ground	1500 L-G, 2500 L-L	4	SP2-600Y

SP2 surge protection device specifications

Description	Specification		
Markets	Light commercial and UL 508A panels		
Product warranty	2 years		
System types	Single, split, delta and wye		
Nominal system voltage	120, 208, 240, 480, 600 Vac		
Installation	Two-, three-, four-wire		
Maximum continuous operating AC voltage	Matched to nominal voltage		
MCOV	150–550 Vac (see table above)		
L-N protection	Yes (single-phase units)		
L-L protection	Yes		
L-G protection	Yes (three-phase units)		
N-G protection	No		
Protection	Surges and transients		
SCCR	200 kA		
Nominal discharge current (8 x 20 µs) In	10 kA		
Maximum discharge current (8 x 20 µs) Imax	45 kA		
Response time tA	<25 ns		
Voltage protection ratings (VPRs)	See technical data in table above		
Frequency	50/60 Hz		
Operating status / fault indication	One bi-color LED—green (good) / red (replace)		
Conductor gauge / length	10 AWG stranded copper / 18 inches		
Mounting	Chase nipple / bracket		
Enclosure rating	NEMA 4X—UL 94-5VA		
Degree of protection (installed state)	IP20 (finger-safe)		
Install location	Indoor / outdoor		
Circuit location	Lineside / loadside		
Standards / agency information	UL 1449 4rd Edition Type 1 and UL 1283 7th Edition listed SPD—cULus, RoHS compliant		
Operating temperature	-40 °C to +65 °C		
Maximum operating altitude	12,000 feet		



SP2 enclosure dimensions in inches (mm)

For details, please visit **Eaton.com/SPD** For technical support, call **1-800-809-2772**, option 4, option 2 For other queries, email **spd@eaton.com**

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