Eaton's SPV Series

For mounting external to electrical distribution equipment



Introduction

Eaton's SPV Series sidemount surge protective devices

Eaton's SPV series is a commercial grade and light industrial surge protective device (SPD) that combines surge suppression components and EMI/RFI filtering, providing effective protection for sensitive electronic loads.

Surges (also known as transients) due to lightning, utility grid switching, switching of external/internal inductive or capacitive loads, and other sources travel on

power line conductors throughout the electrical distribution system, causing system operating problems and equipment downtime.

Use of the SPV units can prevent these costly occurrences and equipment damage. Available with six surge current capacity ratings, the SPV can be installed on the main of light commercial buildings, on any subpanel in a facility and in any control panel to protect sensitive electronic equipment.

Applications

The increasing necessity for facility-wide surge protection

The ever-increasing use of microprocessors and other sensitive electronic equipment has increased the necessity for facility-wide surge protection. These sensitive electronic components are used within many pieces of equipment, including computers, programmable logic controllers, and other commonly used electrical and electronic equipment. Surges can wreak havoc on equipment, causing catastrophic failures, process interruptions and premature aging leading to failure. The application of SPDs can mitigate problems with sensitive electronic equipment, keeping the equipment and the related processes up and running reliably without disruption or damage due to surge-related events.

In addition to externally generated surge events, such as lightning and grid switching, equipment is also susceptible to damage by internally generated surges. In fact, the majority of surges are generated internally by commonly used items, such as fluorescent lighting ballasts, light dimmers, photocopiers, fax machines and variable frequency drives. This further reinforces the necessity for facility-wide surge protection applied at all stages of the electrical distribution system, from the electrical service entrance down to the singlephase loads.

Standards and certifications

- UL® 1449 3rd Edition Listed
- UL 1283 Listed
- CSA® TIL I-11B
- CSA C22.2 No.8



Features

- SurgePlane™ technology to ensure reliability and performance by using a low impedance copper platform
- Compact design to enable close mounting to electrical distribution equipment
- · Parallel hybrid filter technology
- Individually fused surge suppression components
- Status indicator lights to monitor supply power, surge suppression component status and fusing
- Can be remotely monitored using Form C contacts
- Audible alarm
- Ideal for OEM panel applications
- 50 through 200 kA surge current capacity ratings
- Contains no replaceable parts or items that require periodic maintenance
- 10-year warranty

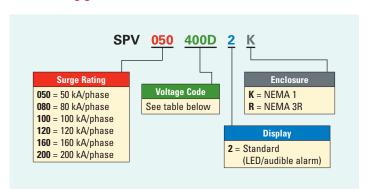
Eaton is the leading supplier of power protection technology to a number of Fortune 500 companies. We have applied our extensive experience in power quality and have included a number of innovative features in the development of the Eaton SPV series.



SPV specifications

Description	SPV050	SPV080	SPV100	SPV120	SPV160	SPV200
Surge current per phase	50 kA	80 kA	100 kA	120 kA	160 kA	200 kA
Surge current per mode	25 kA	40 kA	50 kA	60 kA	80 kA	100 kA
Filter attenuation (MIL-STD-220A at 100 kHz)	0-40 dB	0–40 dB				
Circuit construction	Surge- Plane	Surge- Plane	Surge- Plane	Surge- Plane	Surge- Plane	Surge- Plane
UL 1449 3rd Edition Listed	Yes	Yes	Yes	Yes	Yes	Yes
UL 1283 Listed	Yes	Yes	Yes	Yes	Yes	Yes
cUL Listed	Yes	Yes	Yes	Yes	Yes	Yes
Enclosure NEMA 1 NEMA 3R	Standard Optional	Standard Optional	Standard Optional	Standard Optional	Standard Optional	Standard Optional
Warranty	10 years					

SPV ordering guidelines



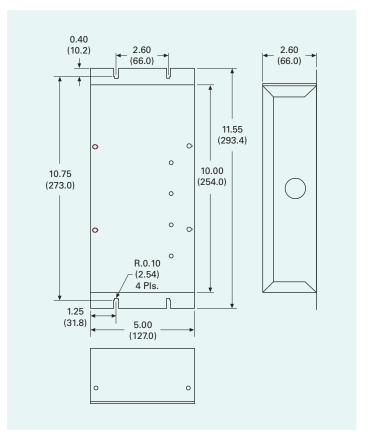
Nominal Voltages (Use These Codes	Voltage Code				
to Complete the Model Number)	120/208 240V	230/400 499V ①	277/480 480V		
120/240 single/split-phase (3W plus G)	240S				
Three-phase wye (4W plus G)	208Y	400Y	480Y		
Three-phase delta (3W plus G)	240D	400D	480D		

1 Contact factory for other configurations: Applicable for 220/380 and 240/415 system voltages.

Physical specifications

Description	Specification
Operating temp range	-40°C to +60°C
Altitude	< 13,000 ft (4000m)
Dimensions	5.00 x 11.55 x 2.60 inches (127.0 x 293.4 x 66.0 mm)
Weight	3.5 lbs (1.6 kg)

SPV dimensions in inches (mm)-NEMA 1





Electrical Sector 1111 Superior Ave. Cleveland, OH 44114 United States 877-ETN-CARE (877-386-2273) Eaton.com

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