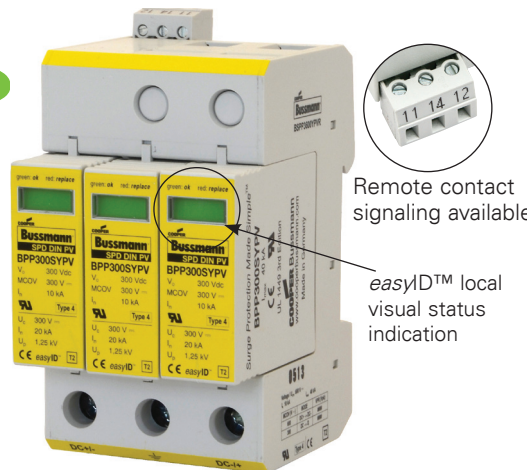


PV PRO three module photovoltaic surge protective devices for 600 and 1000Vdc systems



Standard local visual indication

The green and red visual indicator flags show the module protective status (green = good, red = replace).

Optional remote contact signaling

The three-pole terminal remote contact signaling option has a floating changeover contact for use as a break or make contact, according to circuit concept.

Specifications:

System volts

- 600 Vdc
- 1000 Vdc

Systems types

- Two energized poles (all voltages)
- One energized pole (600 and 1000Vdc)

Agency information

- UL Recognized
- CE
- RoHS compliant

Mounting

- 35 mm DIN-Rail

Warranty

- Five years

Catalog symbols:

- BSPP3_YPV
- BSPP3_YPVR

Description:

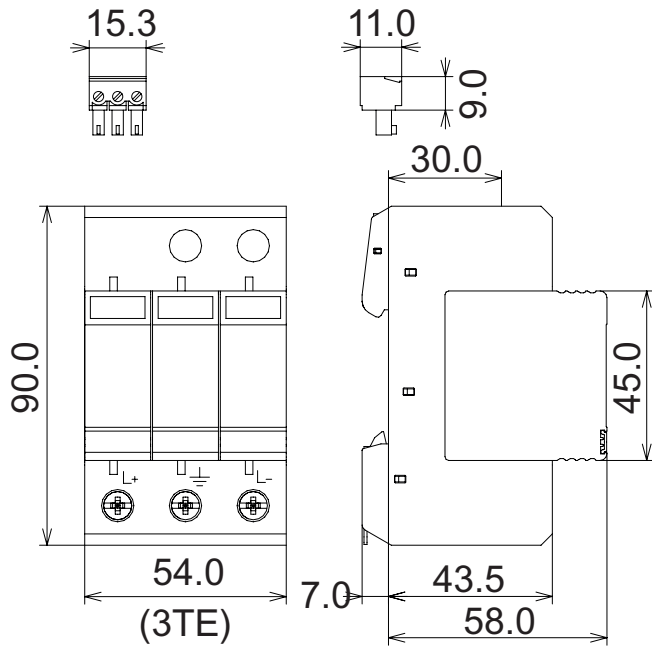
Eaton Bussmann™ series three-module photovoltaic SPDs have a three-step DC switching device and feature *easyID™* local visual indication and optional remote contact signaling.

These complete surge protective devices are suitable for all PV systems in accordance with UL 1449 4th Edition, EN 50539-11 and IEC 60364-7-712. Includes a two year limited warranty.

These prewired solutions consist of a base and modules that feature a disconnection device in the event of an overload and are mechanically keyed to prevent the use of an incorrect replacement module.

In case of insulation faults in the generator circuit, a reliable and tested fault-resistant Y circuit prevents damage to the surge protective devices.

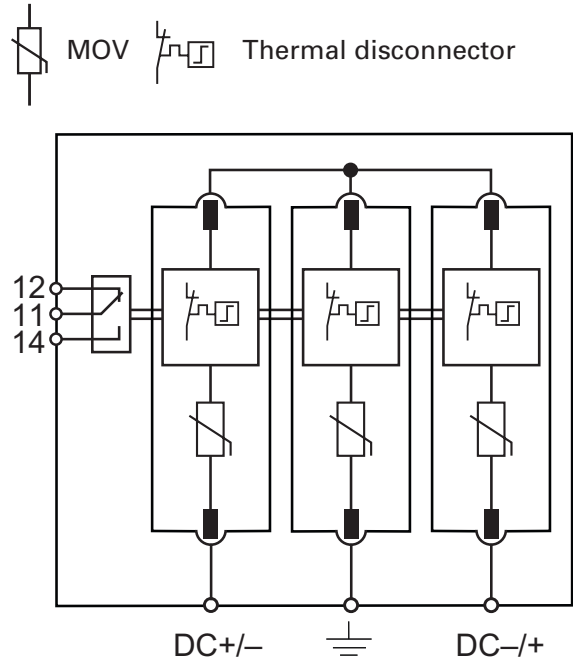
Dimensions - mm:



Shown with optional remote contact signaling.

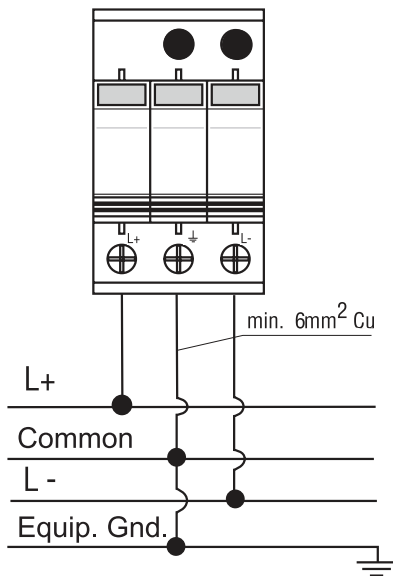
Module circuit diagrams:

Shown with optional remote contact signaling



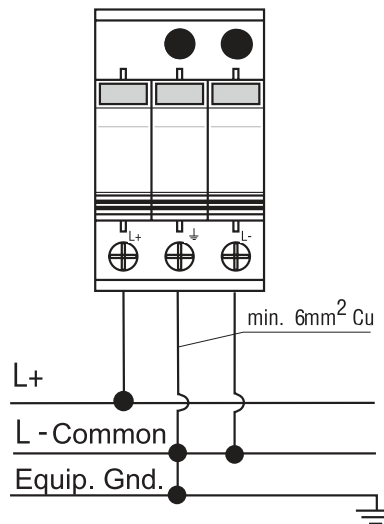
BSP3600YPV(R)
 BSP31000YPV(R)

Typical application schematics:



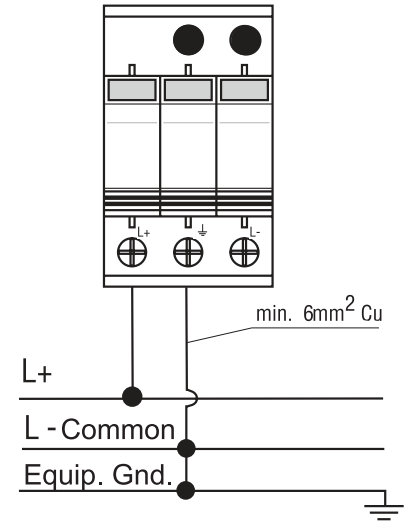
Application A

Two energized poles/modes



Application B

One energized pole/mode



Application C

One energized pole/mode*

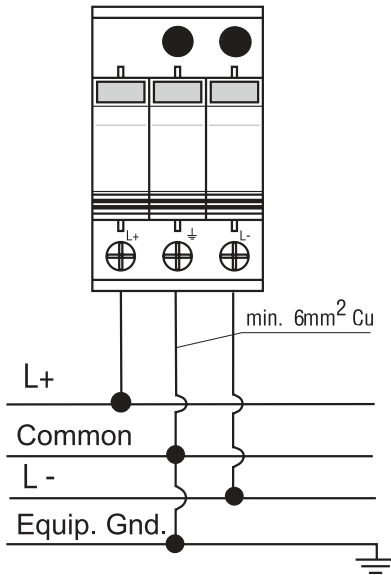
Ordering information:

Nominal PV system voltage		600Vdc	1000Vdc
Catalog numbers (base + modules)	W/O remote contact signaling	BSP3600YPV	BSP31000YPV
	W/ remote contact signaling	BSP3600YPVR	BSP31000YPVR
Replacement modules:		BPP300SYPV	BPP500SYPV
Specifications			
Nominal PV system voltage		600V	1000V
UCPV per EN50539-11 *		600Vdc	1000Vdc
System MOV MCOV		700Vdc	1170Vdc
Max system discharge current (8/20 μ s) [I_{max}]		40kA	40kA
Voltage protection level	[U_p]	=2.5kV	=4.0kV
	at 5kA [U_p]	=2.0kV	=3.5kV
Short-circuit withstand capability [I SCPV]		125A	
Technology		Fault resistant Y MOV circuit	
Operating temperature range [T_o]		-40°C to +80°C	
Nominal discharge current (8/20 μ s) (DC+ Δ DC-) (DC+/DC- Δ PE) [I_n]		20kA	
Response time [t_A]		=25ns	
Operating state/fault indication		Green (good) / Red (replace)	
Conductor ratings and cross-sectional area:	Min.	60/75°C 1.5mm ² / 14AWG Solid/Flexible	
	Max.	60/75°C 35mm ² / 2AWG stranded / 25mm ² / 4AWG flexible	
Mounting		35mm DIN-Rail per EN 60715	
Enclosure material		UL 94V0 Thermoplastic	
Degree of protection		IP20	
Capacity		3 Modules, DIN 43880	
Agency information:		UL UL 1449 3rd Edition (Type 2)	
Warranty		IEC EN 50539-11, IEC 61643-11 Type 2, IEC 61643-11 Class II	
Warranty		Two Years**	
Remote contact signaling			
Contact signaling type		Changeover contact	
AC switching capacity (Volts/Amps)	AC	250V / 0.1A	
	DC	250V / 0.1A; 125V / 0.2A; 75V / 0.5A	
Cross-sectional area		60/75°C Max. 1.5mm ² / 14AWG solid/flexible	
Ordering information		Order from catalog numbers above	

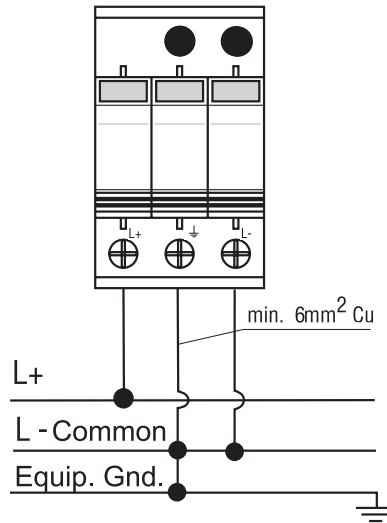
* Maximum continuous operating voltage for PV applications.

** See Eaton's Bussmann Division SPD limited warranty statement (3A1502) for details at www.cooperbussmann.com/surge.

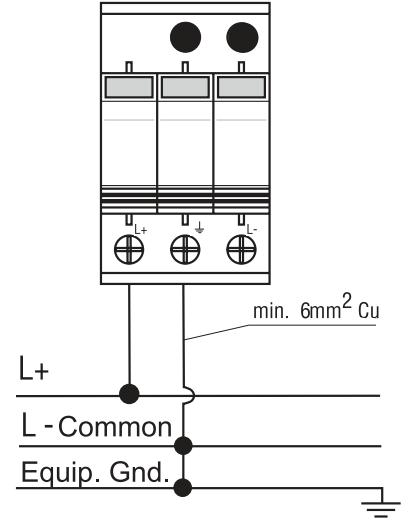
Typical application schematics:



Application A
 Two energized poles/modes



Application B
 One energized pole/mode



Application C
 One energized pole/mode*

* BSP31000YPV(R) 1000Vdc one energized pole/mode requires the following:

1. Use a suitable electrical insulator to keep a 10mm min. safety distance from the PV-SPD and other grounded parts in the housing.
2. No metal covers are in the area of the module release buttons as shown.

The only controlled copy of this data sheet is the electronic read-only version located on the Eaton network drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Eaton
 1000 Eaton Boulevard
 Cleveland, OH 44122
 Eaton.com

Bussmann Division
 114 Old State Road
 Ellisville, MO 63021
 United States
 Eaton.com/bussmannseries

© 2016 Eaton
 All Rights Reserved
 Printed in USA
 Publication No. 10091 — BU-MC16XXX
 January 2016

For Eaton's Bussmann series product information, call **1-855-287-7626** or visit: **Eaton.com/bussmannseries**

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Surge Suppressors](#) category:

Click to view products by [Eaton](#) manufacturer:

Other Similar products are found below :

[GUS1](#) [GUS12](#) [BSPM1A600D600LVR](#) [2800521](#) [29-2053](#) [GUS11](#) [GUS2](#) [GUS3](#) [GUS4](#) [30460](#) [SRA64C060X](#) [PC642C015](#) [1810-15-A3](#)
[2713175](#) [4B06B-EC1-150LF](#) [SRA6LC](#) [BPMA75D100LV](#) [CX06M](#) [CCTV1](#) [GUS13](#) [GUS14](#) [GUS5](#) [GUS6](#) [VAL-MS 320/3+0-FM](#) [VAL-US-](#)
[120/40/1+1-FM](#) [VAL-US-120/65/1+1-FM](#) [VAL-US-480D/30/3+0-FM](#) [VAL-US-120/40/1+0-FM](#) [STCHSP121BT1RU](#) [LP-STRL-NFF](#) [LP-](#)
[STRL-DFE](#) [GUS22](#) [0804111](#) [5053609](#) [5053201](#) [SPD2-150-1P0](#) [SPD2-550-1P0](#) [6720005416](#) [6720005417](#) [1-2191595-2](#) [STC-CAT6-P0E-I](#)
[SPD2-350-1P0](#) [FLT-CP-350-ST](#) [TTC-6P-3-HF-F-M-12DC-UT-I](#) [SMTPA200](#) [2800989](#) [2906776](#) [2906810](#) [2906847](#) [2906848](#)