

One-pole UL Type 4 non-SCCR surge arresters for power applications



Remote contact signaling

easyID™ local visual status indication

Catalog symbol:

- BSMP1_A_D_LVR

Description:

Eaton's Bussmann™ series one-pole non-SCCR UL Type 4 component acceptance surge arresters are for use in Type 2 applications. These modular surge arresters feature local *easyID*™ visual status indication and remote contact signaling. The unique module locking system fixes the protection module to the base. Modules can be easily replaced without tools by simply depressing the release buttons. Integrated mechanical coding between the base and protection module ensures against installing an incorrect replacement module.

Control voltage system arresters

These non-SCCR single-pole arresters are for use as a single device or in combination with other devices for AC and DC power systems.

- Surge arrester according to UL 1449 4th Edition, Type 4 component acceptance for use in Type 2 applications helps meet UL 508A requirements
- Proven MOV technology for reliable surge protection
- Module locking system with module release button make module replacement easy without tools
- Remote signaling of all protection modules make status monitoring easy in any monitoring scheme
- No upstream overcurrent protection necessary for easier and more economical installation
- Vibration and shock tested according to EN 60068-2 to withstand harsh environments

Remote contact signaling

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

Specifications:

System volts

- 75 Vac/100 Vdc to 120 Vac/200 Vdc (See ordering information tables)

System types

- AC and DC power systems up to 120 Vac/200 Vdc

Agency information

- CE
- CSA
- KEMA
- UL / cUL
- RoHS compliant

Mounting

- 35mm DIN-Rail

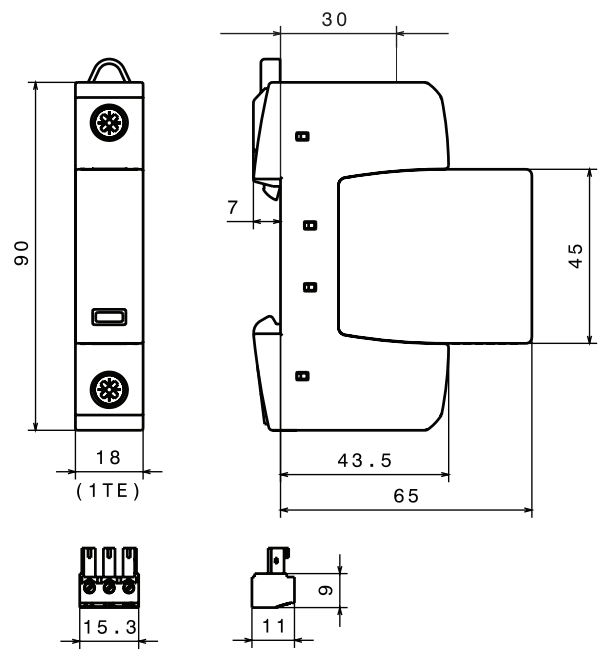
Warranty

- Five years

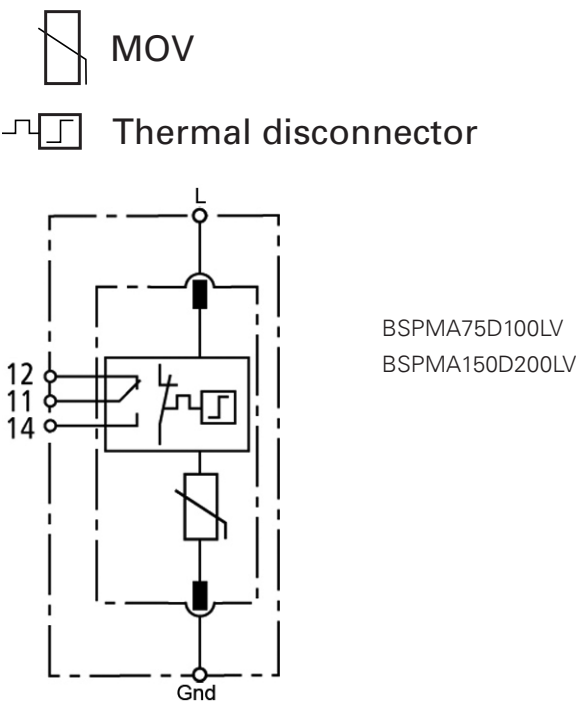


Powering Business Worldwide

Dimensions — mm:



Circuit diagram:



Catalog numbers and specifications

Ordering information — for 75 Vac/100 Vdc to 120 Vac/200 Vdc		System volts/catalog no.	
System voltage (50-60 Hz)		75 Vac/100 Vdc	120 Vac/200 Vdc
Catalog no. (base + modules)	With remote signaling	BSPM1A75D100LVR	BSPM1A150D200LVR
Replacement modules		BPMA75D100LV	BPMA150D200LV
Specifications			
Max. continuous operating AC voltage [V _c]		75 Vac	150 Vac
Voltage protection level [VPL]		≤0.4 kV	≤0.7 kV
Voltage protection level at 5 kA [VPL]		≤0.35 kV	≤0.55 kV
Max. continuous operating DC voltage [V _c]		100 Vdc	200 Vdc
Nominal discharge current (8/20μs) [I _n] AC		10 kA	15 kA
Nominal discharge current (8/20μs) [I _n] DC		10 kA	12.5 kA
Surge current capacity(8/20μs) [I _{max}]		40 kA	40 kA
Temporary overvoltage (TOV)		90 V / 5 sec.	175 V / 5 sec.
Agency information*		UL / cUL, CSA, KEMA	UL / cUL, CSA, KEMA
Specifications — all catalog numbers			
SPD according to EN 61643-11		Type 2	
SPD according to IEC 61643-1		Class II	
Response time [t _A]		≤25ns	
TOV characteristics		Withstand	
Operating temperature range [T _U]		-40°C to +80°C	
Operating state/fault indication		Green (good) / red (replace)	
Number of ports		1	
Cross-sectional area (minimum)		14 AWG solid/stranded	
Cross-sectional area (maximum)		1 AWG solid — 2 AWG stranded	
Mounting		35mm DIN-Rail per EN 60715	
Enclosure material		Thermoplastic, UL 94V0	
Location category		Indoor	
Degree of protection		IP20	
Capacity		1 module, DIN 43880	
Warranty		Five years**	
Remote contact signaling			
Remote contact signaling type		Changeover contact	
AC switching capacity (volts/amps)		250 V/0.5 A	
DC switching capacity (volts/amps)		250 V/0.1 A; 125 V/0.2 A; 75 V/0.5 A	
Conductor ratings / cross-sectional area for remote contact signal terminals		60/75°C Max. 14 AWG solid/stranded	
Ordering information		Order from catalog numbers above	

* Agency information not applicable to DC ratings.

** See Limited Warranty Statement 3A1502 for details at Eaton.com/bussmannseries.

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

© 2018 Eaton
All Rights Reserved
Printed in USA
Publication No. 2056 — BU-SB15XXX
September 2018

Eaton, Bussmann and *easyID* are valuable trademarks of Eaton in the U.S. and other countries. You are not permitted to use the Eaton trademarks without prior written consent of Eaton.
CSA
KEMA

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

Follow us on social media to get the
latest product and support information.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Eaton:](#)

[BSPM1A275D350LV](#) [BSPM1A275D350LVR](#) [BSPM1A320D420LV](#) [BSPM1A320D420LVR](#) [BSPM1A385D500LV](#)
[BSPM1A385D500LVR](#) [BSPM1A440D585LV](#) [BSPM1A440D585LVR](#) [BSPM1A600D600LV](#) [BSPM1A600D600LVR](#)