

## Surge Protection Made Simple™ for UL Applications

**2-Pole BSP UL Series for 120/240, 120/208, 127/254, 240, 240/480, 277/480 and 480Vac Single Phase & Three Phase 2 Wire / 3 Wire Systems**



### Description

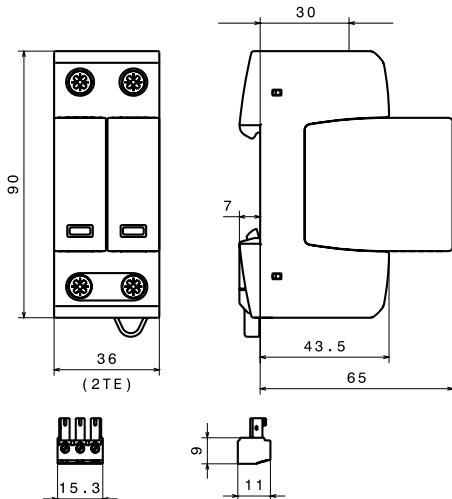
The Cooper Bussmann 2-pole UL modular surge arresters for 120/240, 120/208, 127/254, 240, 240/480, 277/480 and 480Vac (split-phase) systems feature local, easyID™ visual indication and optional remote contact signaling. The unique module locking system fixes the protection module to the base part. Modules 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.

- Surge arrester according to UL 1449 3<sup>rd</sup> Edition, Type 2 Component Assembly helps meet UL 508A requirements
- Heavy-duty zinc oxide varistors for high discharge capacity
- "Thermo Dynamic Control" SPD monitoring device ensures high reliability against surge events
- Module locking system with module release button make module replacement easy without tools
- Up to 200kA Short-Circuit Current Rating (SCCR) make higher assembly SCCR ratings possible
- Optional remote signaling of all protection modules make status monitoring easy and accurate in any monitoring scheme
- No upstream overcurrent protection necessary to make installation easier and more economical
- Vibration and shock tested according to EN 60068-2 to withstand harsh environments

### Optional Remote Signaling Contact

The remote signaling contact versions have a floating changeover contact for use as a break or make contact for easy adoption in any monitoring application.

### Dimensions - mm



Shown with optional remote contact signaling



BSPM2240S3G

BSPM2480S3G



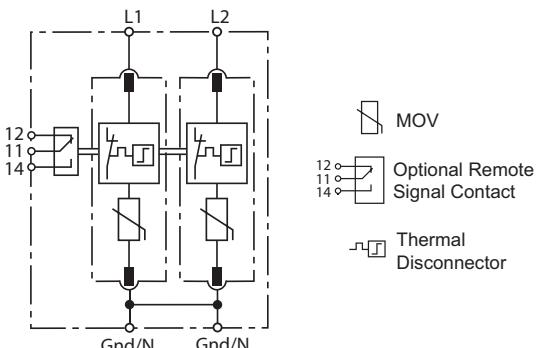
easyID™  
Visual Status Indication

Remote Signal  
Contact Available



## SCCR Rated BSP UL Series (Type 2)

### Circuit Diagram



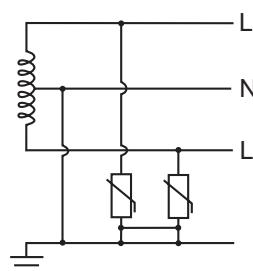
**BSPM2240S3G, BSPM2480S3G\***

Shown with optional remote contact signaling

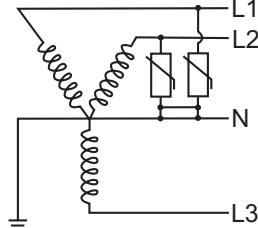
\* For remote signaling contact, add "R" suffix to the part number. E.g., BSPM2480S3GR

ORDERING INFORMATION		
Nominal System Voltage	120/240, 240Vac	240/480Vac
Max. Continuous Operating Voltage MCOV [L-G/L-L]	275/550Vac	385/770Vac
Catalog Numbers:	BSPM2240S3G	BSPM2480S3G
Without Remote Signaling	BSPM2240S3GR	BSPM2480S3GR
With Remote Signaling		
Replacement Module	BPM275UL	BPM385UL
SPECIFICATIONS		
Rated Voltage	120-127Vac 240-254Vac 240Vac	240-480Vac 480Vac
Voltage Protection Rating $V_{PR}$ [L-G/L-L]	1kV/1.8kV	1.5kV/2.5kV
Nominal Discharge Current $I_n$ (kA)	20kA	
Max. Discharge Current $I_{max}$ (kA)	40kA	
Response Time $t_A$	<25 ns	
SCCR	200kA	
Frequency	50/60Hz	
Number of Poles	2	
Number of Wires/Connection Points	2 Wires or 3 Wires / 3 Connection Points	
Operating State/Fault Indication	Green (good) / Red (replace)	
Cross-Sectional Area (min.)	14AWG - Cu Stranded, Solid or Fine	
Cross-Sectional Area (max.)	2AWG - Cu Solid or Stranded, 4AWG - Cu Fine	
Terminal Torque	45 lb-in	
For Mounting On	35mm DIN-Rail per EN 60715	
Enclosure Material	Thermoplastic, UL 94V0	
Degree of Protection	IP20 (finger-safe)	
Location Category	Indoor	
Capacity	2 mods, DIN 43880	
Application	UL Type 2 Component Assembly	
Standard	UL 1449, 3 <sup>rd</sup> Edition	
Agency Information	cURus, CSA, RoHS Compliant	
Product Warranty	Five Years*	
REMOTE CONTACT SIGNALING		
Remote Contact Signaling Type	Changeover Contact	
AC Switching Capacity (Volts/Amps)	250V/0.5A	
DC Switching Capacity (Volts/Amps)	250V/0.1A; 125V/0.2A; 75V/0.5A	
Conductor Ratings and Cross-Sectional Area for Remote Contact Signal Terminals	60/75°C Max. 1.5mm <sup>2</sup> /14AWG Solid/Flexible	
Ordering Information	Order from Catalog Numbers Above	

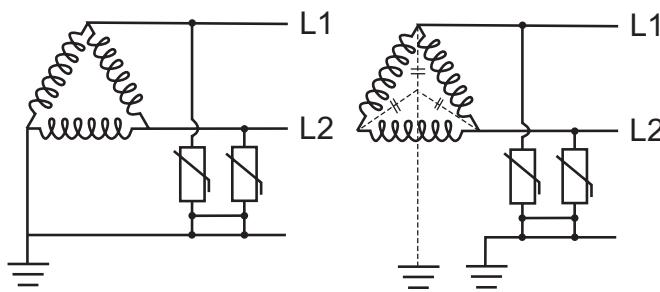
\* See Cooper Bussmann SPD Limited Warranty Statement (3A1502) for details at [www.cooperbussmann.com/surge](http://www.cooperbussmann.com/surge).



120/240V, 240/480Vac  
Single Phase (Split) Center Tap  
**BSPM2240S3G, BSPM2480S3G**



120/208V, 277/480Vac  
3 Wire Wye System  
**BSPM2240S3G, BSPM2480S3G**



2 Wire Corner Grounded Delta  
240, 480Vac  
**BSPM2440S3G, BSPM2480S3G**

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