

Surge Protection Made Simple™ for IEC Applications

IEC Class II Surge Arresters for 230 Volt, 2-Pole TN & TT Systems



Description

The Cooper Bussmann® IEC Class II 230 volt, two-pole, modular surge arresters feature local, <code>easyIDTM</code> 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.

230 Volt models are offered with MCOV ratings of 255 and 275 volts.

TN System Arresters

The features of these single-pole devices are for use in single-phase 230 volt TN systems ("2-0" circuit).

TT System Arrester

The features of these single-pole devices are for use in single-phase 230 volt TT and TNS systems ("1-1" circuit).

Remote Signaling Contact

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



BSPM2275TN(R) BSPH2275TT(R)

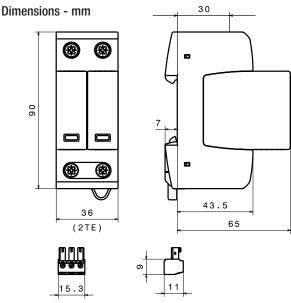




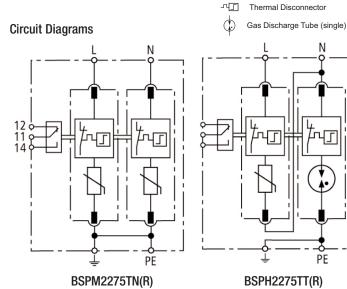


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Shown with optional remote contact signaling



Shown with optional remote

contact signaling

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Shown with optional remote contact signaling

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Ordering Information			
System Voltage/Poles	230V/2	230V/2	
Max. continuous operating AC voltage (MCOV) [U _C]	275V		
Max. Continuous operating AC voltage (MCOV) [L-N] [U _C]		275V	
Max. Continuous operating AC voltage (MCOV) [N-PE] [U _C]		255V	
Catalog Numbers: Without Remote Signaling	BSPM2275TN	BSPH2275TT	
With Remote Signaling	BSPM2275TNR	BSPH2275TTR	
Replacement Modules: MOV Technology	BPM275IEC	BPM275IEC	
Spark Gap technology		BPSNPEIEC*	
Specifications			
Lightning impulse current (10/350 μs) [N-PE] [l _{imp}]		12kA	
Voltage protection level [Up]	≤ 1.25kV		
Voltage protection level at 5kA [U _P]			
Voltage protection level [L-N] [Up]		< 1.25kV	
Voltage protection level [L-N] at 5kA [U _P]		<u>=</u> 1kV	
Voltage protection level [N-PE] [U _P]		≤ 1.5kV	
Follow current extinguishing capability [N-PE] [I _{fi}]		100A rms	
Response time [t _A]	≤ 25 ns		
Response time [L-N] [t _A]		≤ 25 ns	
Response time [N-PE] [t _A]		≤ 100 ns	
Temporary overvoltage (TOV) [U _T]	335V/5 sec.		
Temporary overvoltage (TOV) [L-N] [U_T]		335V/5 sec.	
Temporary overvoltage (TOV) [N-PE] [U _T]		1200V/200 ms	
SPD according to EN 61643-11	Tv	rpe 2	
SPD according to IEC 61643-1	Class II		
Nominal discharge current (8/20 µs) [I _n]	20kA		
Max. discharge current (8/20 µs) [I _{max}]	40kA		
Max. mains-side overcurrent protection	125A gL/gG		
Short-circuit withstand capability for max. mains-side overcurrent protection	50kA rms		
Nominal AC voltage [U _N]	230V		
TOV characteristics	withstand		
Operating temperature range [T _{LI}]	-40°C to +80°C		
Operating state/fault indication	green (good)/red (replace)		
Number of ports	9.0011 (9000	1	
Cross-sectional area (min.)	1.5mm2/14AWG solid/flexible		
Cross-sectional area (max.)	35mm2/2AWG stranded-25mm2/4AWG flexible		
Mounting	35mm DIN rail per EN 60715		
Enclosure material	Thermoplastic, UL 94V0		
Location category	Indoor		
Degree of protection	IP20		
Capacity	2 mods., DIN 43880		
Standards Information	KEMA		
Product Warranty	Five Years**		
Remote Contact Signaling			
Remote Contact Signaling Type		ver Contact	
AC Switching Capacity (Volts/Amps)	Changeover Contact 250V/0.1A		
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. 1.5mm²/14AWG Solid/Flexible		
Ordering Information	Order from Catalog Numbers Above		
Ordoning information	Uruer Ironi Catal	log Ivallibola Abovo	

^{*} N-PE Surge arrester for location between neutral conductor and protective conductor in TT systems.

^{**} See Cooper Bussmann SPD Limited Warranty Statement (3A1502) for details at www.cooperbussmann.com/surge.

Recommended Cooper Bussmann Back Up Fuses	
DIN Fuse Size	NH Fuse Part Number
00	125NHG00B
0	125NHG0B
01	125NHG01B
02	125NHG02B

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