Surge Protection Made Simple™ for IEC Applications

IEC Class I Combined Lightning, Current and Surge Arresters for 230 Volt, 2-Pole TN & TT Systems

Description

The Cooper Bussmann® IEC Class I 230 Volt, two-pole, modular combined lightning, current and surge arresters feature local, *easy*ID™ 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 rating of 255 volts.

TN System Arresters

The features of these two-pole devices are for use as a modular combined lightning and current arrester and surge arrester for use in single TN- systems ("2-0" circuit).

TT System Arrester

Provides a current arresting means for use in single TT- 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.

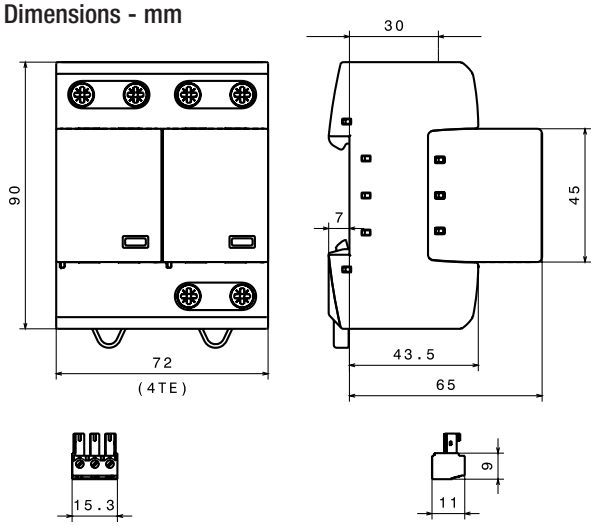
BSPS2255TN(R)
BSPS2255TT(R)

5 YEAR WARRANTY

***easy*ID™**
Visual Status Indication

Remote Signal
Contact Available

Dimensions - mm

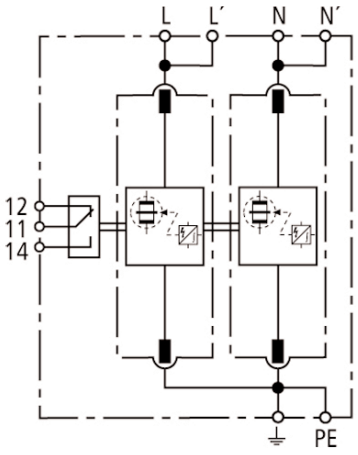


Shown with optional
remote contact signaling

Circuit Diagrams

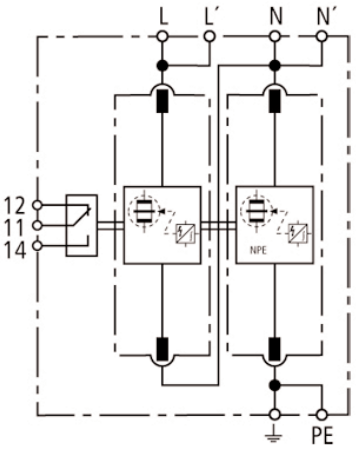
Creepage Discharge Spark Gap

Spark Gap Trigger



BSPS2255TNR

Shown with optional
remote contact signaling



BSPS2255TTR

Shown with optional
remote contact signaling

Ordering Information			
System Voltage/Poles		230V/2	230V/2
Max. Continuous operating AC voltage (MCOV) [U_C]		255V	255V
Catalog Numbers:	Without Remote Signaling	BSPS2255TN	BSPS2255TT
	With Remote Signaling	BSPS2255TNR	BSPS2255TTR
Replacement Modules (Spark Gap technology):		(2X) BPS255IEC	(1X) BPS255IEC
		- -	(1X) BPS50NPEIEC*
Specifications			
Specific energy [L+N-PE] [W/R]		625.00 kJ/ohms	- -
Lightning impulse current (10/350 µs) [L, N-PE] [I_{imp}]		25kA	25/50kA I_S [L-N]/[N-PE]
Specific energy [L,N-PE] [W/R]		156.25 kJ/ohms	156.25kJ/ohms/ 625.00 kJ/ohms
Voltage protection level [L-PE]/[N-PE] [U_P]		≤ 1.5 kV/≤ 1.5 kV	- -
Voltage protection level [L-N]/[N-PE] [U_P]		- -	≤ 1.5kV/≤ 1.5kV
Follow current extinguishing capability AC [I_{fi}]		50kA rms	- -
Follow current extinguishing capability [L-N]/[N-PE] [I_{fi}]		- -	50kA rms/100A rms
Temporary overvoltage (TOV) [N-PE] [U_T]		- -	1200V/200 ms
SPD according to EN 61643-11/... IEC 61643-1		Type 1/Class I	
Energy-coordinated protection effect with regard to the terminal equipment		Type 1 + Type 2	
Energy-coordinated protection effect with regard to the terminal equipment (≤ 5m)		Type 1 + Type 2 + Type 3	
Nominal AC voltage [U_N]		230V	
Lightning impulse current (10/350 µs) [L+N-PE] [I_{total}]		50kA	
Nominal discharge current (8/20 µs) [I_n]		25/50kA	
Follow current limitation/Selectivity		no tripping of a 20A gL/gG fuse up to 50kA rms (prosp.)	
Response time [t_A]		≤ 100 ns	
Max. Backup fuse (L) up to I_K ≤ 50kA rms		315A gL/gG	
Max. Backup fuse (L) for I_K > 50kA rms		200A gL/gG	
Max. Backup fuse (L-L´)		125A gL/gG	
Temporary overvoltage (TOV) [L-N] [U_T]		440V/5 sec.	
TOV characteristics		withstand	
Operating temperature range (parallel connection) [TU_P]		-40°C to +80°C	
Operating temperature range (series connection) [TU_S]		-40°C to +60°C	
Operating temperature range [parallel]/[continuity] [TU]		-40°C to +80°C/-40°C to +60°C	
Operating state/fault indication		green (good)/red (replace)	
Number of ports		1	
Cross-sectional area (L, L´, N, N´, PE, ⏚) [min.]		10mm² solid/flexible	
Cross-sectional area (L, N, PE) [max.]		50mm²/1AWG stranded-35mm²/2AWG flexible	
Cross-sectional area (L´, N´, ⏚) [max.]		35mm²/2AWG stranded-25mm²/4AWG flexible	
For mounting on		35mm DIN Rail per EN 60715	
Enclosure material		Thermoplastic, UL 94V0	
Location category		Indoor	
Degree of protection		IP20	
Capacity		4 mods., DIN 43880	
Standards Information		KEMA	
Product Warranty		Five Years**	
Remote Contact Signaling			
Remote Contact Signaling Type		Changeover Contact	
AC Switching Capacity (Volts/Amps)		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	

Recommended Cooper Bussmann NH DIN Size Back Up Fuses

Size	NH Fuse Part Number	Size	NH Fuse Part Number
00	125NHG00B (max L-L)	02	125NHG02B (max L-L)
0	125NHG0B (max L-L)	02	200NHG02B (max L Ik >50kA)
01	125NHG01B (max L-L)	2	315NHG2B (max L ≤50kA)
1	200NHG1B (max L Ik >50kA)	03	315NHG03B (max L ≤50kA)

* 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.

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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