

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, <code>easyID™</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 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.

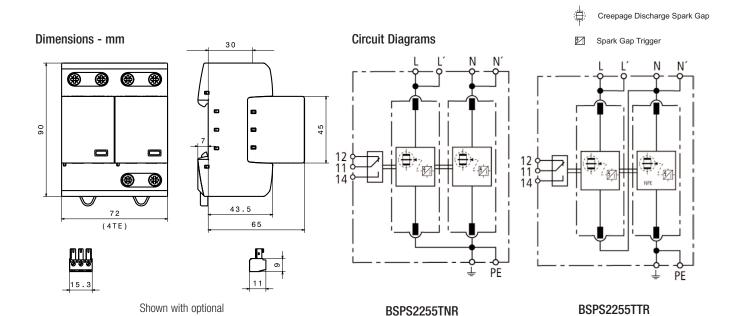


BSPS2255TN(R) BSPS2255TT(R)









Shown with optional

remote contact signaling

Data Sheet 1163

Shown with optional

remote contact signaling

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 With Remote Signaling		BSPS2255TNR	BSPS2255TTR	
		(2X) BPS255IEC	(1X) BPS255IEC	
Replacement Modules (Spark Gap technology):			(1X) BPS50NPEIEC*	
Specifications (17) BY COOK FIELD				
Specific energy [L+N-PE] [W/R]		625.00 kJ/ohms		
Lightning impulse current (10/350 µs) [L, N-PE] [l _{imn}]		25kA	25/50kA I _S [L-N]/[N-PE]	
			156.25kJ/ohms/	
Specific energy [L,N-PE] [W/R]		156.25 kJ/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 [Ifi]		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 $I_K \le 50$ kA rms			315A gL/gG	
Max. Backup fuse (L) up to $I_K \le 50$ kA rms			200A gL/gG	
Max. Backup fuse (L-) for IK > 50KA THIS			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 (paramet 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 temperature range (paramely continuity) [10] Operating state/fault indication		green (good)/red (replace)		
Number of ports		green (good)/	groon (good)/rod (ropiaco)	
·		10	1	
Cross-sectional area (L, L', N, N', PE, $\stackrel{\perp}{=}$) [min.]		10mm² solid/flexible		
Cross-sectional area (L, N, PE) [max.]		50mm²/1AWG stranded-35mm²/2AWG flexible		
Cross-sectional area (L´, N´, $\frac{1}{=}$) [max.]		35mm²/2AWG stranded-25mm²/4AWG flexible		
For mounting on		35mm DIN Rail per EN 60715		
Enclosure material		Thermoplast	Thermoplastic, UL 94V0	
Location category		Indoor		
Degree of protection			IP20	
Capacity			4 mods., DIN 43880	
Standards Information			KEMA	
Product Warranty			Five Years**	
	Remote Contact	<u> </u>		
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 Catalo	Order from Catalog Numbers Above	
Recommended Cooper Bussma	ann NH DIN Size Back Un Fuses	* N-PE Surge arrester for location between n	eutral conductor and protective conductor	
Size NH Fuse Part Number Size NH Fuse Part Number 00 125NHG00B (max L-L) 02 125NHG02B (max L-L)		in TT systems.	** See Cooper Bussmann SPD Limited Warranty Statement (3A1502) for details at	
		www.cooperbussmann.com/surge.		
0 125NHG0B (max L-L)	02 200NHG02B (max L lk >50kA)	TTTT. Sooper Good Train Took and Good Train Took and Good Train Took and Good Train		
01 125NHG01B (max L-L)	2 315NHG2B (max L ≤50kA)			
J. ILOITIGO ID (IIIUN L L)				

DINTIGOTO (IIIAX L-L) 200NHG1B (max L lk >50kA) 03 315NHG03B (max L ≤50kA)

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1210 BU-SB101429 Data Sheet 1163 Page 2 of 2

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Authorized Distributor

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