

# Four-pole IEC Class II surge arresters for TN-S and TT systems





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Remote contact signaling available

easyID™ local visual status indication The features of these four-pole devices are for use in TT and TN-S 230/400 volt systems ("3+1" circuit) against surges.

#### Optional remote contact signaling

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

### **Specifications:**

TT system arrester

### System volts

• 230

#### System types

- TN-S
- TT

### **Agency information**

- CE
- KEMA
- · RoHS compliant

## Mounting

• 35mm DIN-Rail

### Warranty

· Five years

# Catalog symbols:

- BSPM4275TNS
- BSPM4275TNSR
- BSPH\_TT
- BSPH\_TTR

### **Description:**

Eaton's Bussmann™ series four-pole IEC Class II modular surge arresters feature local, easyID™ visual status indication and optional 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.

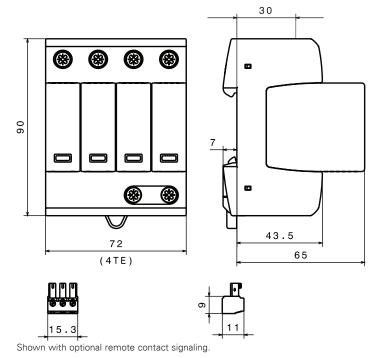
These 230 volt models are offered with MCOV ratings of 275, 320 or 385V.

### TN-S system arrester

The features of these four-pole devices are for use in TN-S 230/400 volt systems ("4-0" circuit) against surges.



### **Dimensions - mm:**



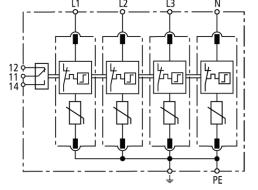
# Module circuit diagrams:

Shown with optional remote contact signaling.

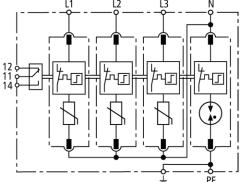
Mov

- Thermal disconnector

Gas discharge tube (single)



BSPM4275TNS(R)



BSPH4275TT(R) BSPH4320TT(R) BSPH4385TT(R)

# Recommended Bussmann series back up fuses

DIN fuse size	NH fuse catalog number
00	125NHG00B
0	125NHG0B
01	125NHG01B
02	125NHG02B

# **Ordering information:**

System voltage (50-60Hz)/poles			230/400V / 4	230/400V / 4	230/400V / 4	230/400V / 4
A4 0 : 0 (A400) A (A400) A (A400)			275V	_	_	_
Max. Continuous Operating Voltage (MCOV) [U <sub>C</sub> ] AC (50-60Hz)	[L-N]		_	275V	320V	385V
, 10 (00 00112)	[N-PE]		_	255V	255V	255V
	W/O remote signaling		BSPM4275TNS	BSPH4275TT	BSPH4320TT	BSPH4385TT
Catalog numbers (base + modules)	W/ remote signaling		BSPM4275TNSR	BSPH4275TTR	BSPH4320TTR	BSPH4385TTR
Danlacement madules	MOV tec	hnology	BPM275IEC	BPM275IEC	BPM320IEC	BPM385IEC
Replacement modules	Spark ga	p technology	_	BPSNPEIEC*	BPSNPEIEC*	BPSNPEIEC*
Specifications						
Lightning impulse current (10/350µs) [N-PE] [I <sub>imp</sub> ]			_	12kA	12kA	12kA
			≤ 1.5kV	_	_	_
		at 5kA	≤ 1kV	_	_	_
Voltage protection level [Up]		[L-N]	_	≤ 1.5kV	≤ 1.5kV	≤ 1.75kV
•		[L-N] at 5kA	_	≤ 1kV	≤ 1.2kV	≤ 1.35kV
		[N-PE]	_	≤ 1.5kV	≤ 1.5kV	≤ 1.5kV
Follow current extinguishing capability [N-PE] [I,]			_	100A <sub>rms</sub>	100A <sub>rms</sub>	100A <sub>rms</sub>
			≤ 25 ns			
Response time [t]		[L-N]	_	≤ 25 ns	≤ 25 ns	≤ 25 ns
. А		[N-PE]	_	≤ 100 ns	≤ 100 ns	≤ 100 ns
		Withstand	335V / 5 sec.	_	_	_
Temporary overvoltage (TOV) [U <sub>T</sub> ]		Safe failure	440V / 120 min.	_	_	_
	[L-N]	Withstand	_	335V / 5 sec.	335V / 5 sec.	440V / 120 min
		Safe failure	_	440V / 120 min	440V / 120 min	_
	[N-PE]	Withstand	_	1200V / 200 ms		1200V / 200 ms
Short-circuit withstand capability for max. mains-side protection (I <sub>SCCR</sub> )	e overcurre	ent	50kA <sub>rms</sub>	50kA <sub>rms</sub>	25kA <sub>rms</sub>	25kA <sub>rms</sub>
SPD according to			EN 61643-11 Type	2, IEC 61643-11 (	Class II	
Nominal AC voltage [U <sub>N</sub> ]			230 / 400V			
Nominal discharge current (8/20µs) [l <sub>a</sub> ]			20kA			
Max. discharge current (8/20µs) [I			40kA			
Max. mains-side overcurrent protection			125A gG			
TOV characteristics			Withstand			
Operating environment [T,,]	-40°C to +80°C, 5% to 95% RH					
Operating state/fault indication	Green (good) / Red (replace)					
Number of ports			1			
· · · · · · · · · · · · · · · · · · ·		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			
Location category			Indoor			
Degree of protection			IP20			
Capacity			4 mods., DIN 43880			
Agency information			KEMA			
Product warranty			Five years**			
Remote contact signaling			,			
Contact signaling type			Changeover conta	act		
		AC	250V/0.5A			
Switching capacity (volts/amps)			250V/0.1A; 125V/0.2A; 75V/0.5A			
Conductor ratings and cross-sectional area			60/75°C Max. 1.5mm²/14AWG solid/flexible			
Ordering information			Order from catalog numbers above			
ordoning information			Craci nom catalo	9 .101115013 05046		

<sup>\*</sup> N-PE surge arrester module for location between neutral conductor and protective conductor in TT systems.

<sup>\*\*</sup> See Eaton's Bussmann series SPD limited warranty statement (3A1502) for details at www.cooperbussmann.com/surge.

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KEMA

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