

Surge arrester

3-electrode arrester

Series/Type: Ordering code:	T90-A90X B88069X5470C253	
Date:	2015-09-09	
Version:	07	

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T90-A90X

B88069X5470C253

Surge arrester

3-electrode arrester

Features

- Very small size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

Electrical specifications

Applications

- Modem
- Data lines

DC spark-over voltag	e ¹⁾²⁾³⁾		90 ±20	V %
Impulse spark-over ve	oltage ³⁾			
at 100 V/µs	 for 99% of measured values typical values of distribution 		< 450 < 350	V V
at 1 kV/µs	 for 99% of measured values typical values of distribution 		< 600 < 500	V V
Service life				
10 operation	S	50 Hz; 1 s ⁴⁾	10	А
10 operation	S [5× (+) & 5× (–)]	8/20 µs ⁴⁾	10	kA
5 operation		10/250 µs ⁴⁾	1	kA
2 operation		10/350 µs ⁴⁾	1	kA
300 operations [150x (+) & 150x (–)] 10/1000 μs ⁴⁾			200	А
Insulation resistance at 50 $V_{DC}^{3)}$			> 1	GΩ
Capacitance at 1 MHz ³⁾			< 1.5	pF
Transverse delay time ⁵⁾			< 0.2	μs
Arc voltage at 1 A Glow to arc transition current Glow voltage			~ 15 < 0.5 ~ 70	V A V
Weight			~ 1.2	g
Operation and storage temperature			-40 +90	°C
Climatic category (IEC 60068-1)		40/090/21		
Marking, blue negative		EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive		
Certifications			UL 497B (E1630	70) 🔊
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Remarks on next page

PPD AB PD / PPD AB PM

2015-09-09

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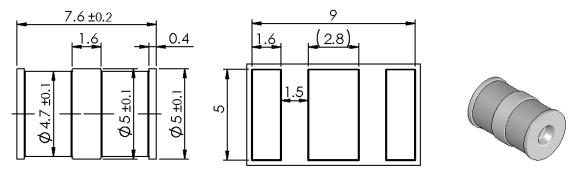
Surge arrester

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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Tip or ring electrode to center electrode
- ⁴⁾ Total current through center electrode, half value through tip respectively ring electrode.
- ⁵⁾ Test according to ITU-T Rec. K.12

Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm

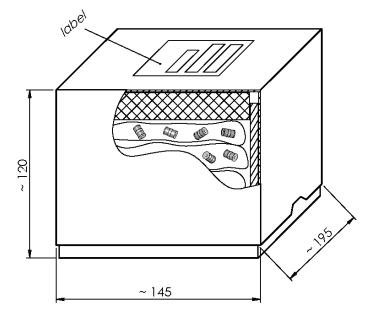


recommended pad outline

tin-plated

Ordering code and packing advice

B88069X5470C253 = container with 2500 pcs. (5 PE-bags á 500 pcs.)



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Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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