

# Surge arrester

3-electrode arrester

Series/Type: Ordering code: T30-A90XG

B88069X2430T702 Version/Date: Issue 04 / 2007-11-14



Surge arrester B88069X2430T702

## 3-electrode arrester T30-A90XG

Features	Applications
<ul> <li>Very small size</li> </ul>	■ Modem
<ul> <li>Extremely fast response time</li> </ul>	<ul> <li>Data lines</li> </ul>
<ul> <li>High current rating</li> </ul>	
<ul> <li>Stable performance over life</li> </ul>	
<ul> <li>Extremely low capacitance</li> </ul>	
<ul> <li>High insulation resistance</li> </ul>	
<ul> <li>RoHS-compatible</li> </ul>	

# **Electrical specifications**

DC spark-over voltage 1) 2) 4)		90	V
		± 20	%
Impulse spark-over vo	oltage 4)		
at 100 V/µs	- for 99 % of measured values	< 450	V
	<ul> <li>typical values of distribution</li> </ul>	< 350	V
at 1 kV/µs	- for 99 % of measured values	< 500 < 400	V
	- typical values of distribution	< 400	V
Service life	5)		
10 operations		10	A <sub>rms</sub>
1 operation	50 Hz; 0.18 s (9 cycles) <sup>5)</sup>	30	A <sub>rms</sub>
10 operations	•	10	kA
1 operation	8/20 μs <sup>5)</sup>	10	kA
1 operation	10/350 μs <sup>5)</sup>	2	kA
Insulation resistance at 50 V <sub>dc</sub> <sup>4)</sup>		> 1	$G\Omega$
Capacitance at 1 MHz <sup>4)</sup>		< 1.5	pF
Transverse delay time 3)		< 0.2	μs
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		~ 1	A
Glow voltage		~ 60	V
Weight		~ 1.2	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1) 40/ 90/ 21			
Marking, blue negative  EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive		ction	

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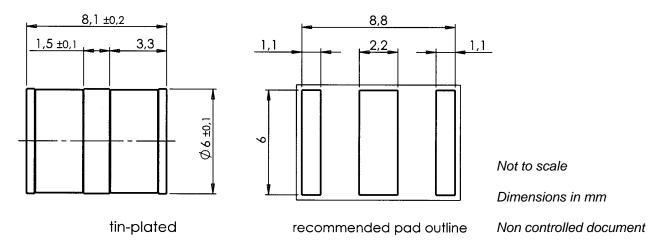
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- <sup>4)</sup> Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring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

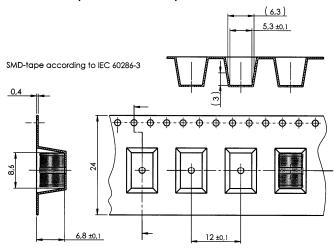
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

## **Dimensional drawing**



### Packing advice

T702 = 700 pcs on SMD tape and reel



#### **Cautions and warnings**

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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