

# Surge arrester

3-electrode arrester

Series/Type: T25-A250X Ordering code: B88069X70

Ordering code: B88069X7050B502

Version/Date: Issue 04 / 2009-07-14



Surge arrester B88069X7050B502

3-electrode arrester T25-A250X

Features	Applications
<ul> <li>Standard size</li> </ul>	Line protection
<ul> <li>Fast response time</li> </ul>	Station protection
<ul> <li>Very high current rating</li> </ul>	Base stations
<ul> <li>Stable performance over life</li> </ul>	
<ul> <li>Very 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)	250 ± 20	V %
Impulse spark-over voltage <sup>4)</sup> at 100 V/µs - for 99 % of measured values - typical values of distribution	< 500 < 450	V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 600 < 550	V
Service life		
10 operations 50 Hz; 1 s 5)	10	Α
1 operation 50 Hz; 9 cycles 5)	50	Α
10 operations $8/20 \mu s^{5)}$	20	kA
1 operation 8/20 µs 5)	25	kA
1 operations $10/350 \mu s^{5)}$	5	kA
300 operations 10/1000 μs <sup>5)</sup>	200	Α
Insulation resistance at 100 V <sub>dc</sub> <sup>4)</sup>	> 10	$G\Omega$
Capacitance at 1 MHz <sup>4)</sup>	< 1.5	pF
Transverse delay time 3)	< 0.2	μs
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 35 ~ 1 ~ 200	V A V
Weight	~ 2	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	EPCOS 250 YY O 250 - Nominal voltage YY - Year of production O - Non radioactive	

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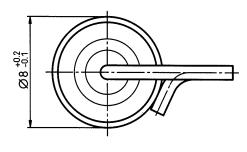
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## 3-electrode arrester T25-A250X

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- Test according to ITU-T Rec. K.12
- 4) 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**

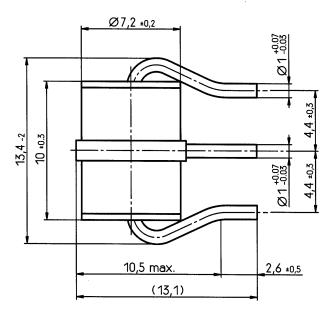


tin-plated

Not to scale

Dimensions in mm

Non controlled document



### **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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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