

# **Surge arrester**

3-electrode arrester

Series/Type: T23-A420X

Ordering code: B88069X8070B502 Version/Date: Issue 09 / 2007-04-23

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3-electrode arrester T23-A420X

Features	Applications
<ul> <li>Standard size</li> </ul>	Line protection
<ul> <li>Fast response time</li> </ul>	<ul> <li>Station protection</li> </ul>
<ul> <li>Very high current rating</li> </ul>	<ul> <li>Base stations</li> </ul>
<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)	350 550	V
Impulse spark-over voltage <sup>4)</sup> at 100 V/µs - for 99 % of measured values - typical values of distribution	< 750 < 700	V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 850 < 800	V
Service life 10 operations 50 Hz; 1 s $^{5)}$ 1 operation 50 Hz; 9 cycles $^{5)}$ 10 operations 8/20 $\mu$ s $^{5)}$	10 50 20	A A kA
1 operation 8/20 μs <sup>5)</sup> 1 operation 10/350 μs <sup>5)</sup>	25 5	kA kA
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	~ 30 ~ 1 ~ 200	V A V
Weight	~ 2.2	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	tegory (IEC 60068-1) 40/ 90/ 21	
Marking, blue negative	EPCOS 420 YY M O 420 - Nominal voltage YY - Year of production M - Month of production (1 9 = Jan Sep; O D = Oct Dec) O - Non radioactive	

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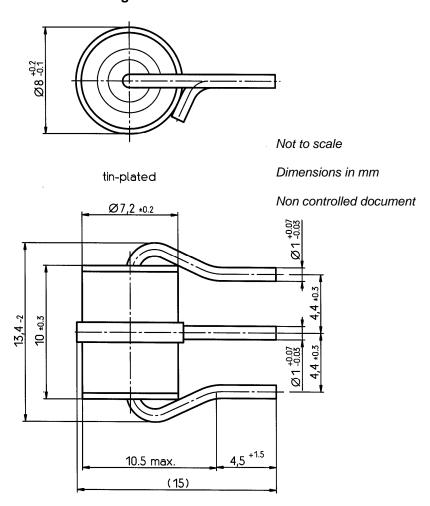
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- 5) Total current through center electrode, half value through tip respectively ring electrode.

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

# **Dimensional drawing**



### **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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