

# Surge arrester

3-electrode arrester

 Series/Type:
 T23-A420X

 Ordering code:
 B88069X8070B502

 Version/Date:
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## Surge arrester

## **3-electrode arrester**

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Features	Applications
Standard size	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 <sup>1) 2) 4)</sup>	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	VVV	
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 850 < 800	V V	
Service life			
10 operations 50 Hz; 1 s $^{5)}$	10	А	
1 operation 50 Hz; 9 cycles $5$	50	А	
10 operations $8/20 \ \mu s^{5}$	20	kA	
1 operation $8/20 \ \mu s^{5)}$	25	kA	
1 operation 10/350 μs <sup>5)</sup>	5	kA	
Insulation resistance at 100 $V_{dc}$ <sup>4)</sup>	> 10	GΩ	
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		
Weight	~ 2.2 g		
Operation and storage temperature	-40 +90	-40 +90 °C	
Climatic category (IEC 60068-1)	40/ 90/ 21		
Marking, blue negative	<b>EPCOS</b> <b>420 YY M O</b> 420 - Nominal voltage YY - Year of production M - Month of production (1 9 = Jan Sep; O D = Oct Dec) O - Non radioactive		

#### KB AB E / KB AB PM



## Surge arrester

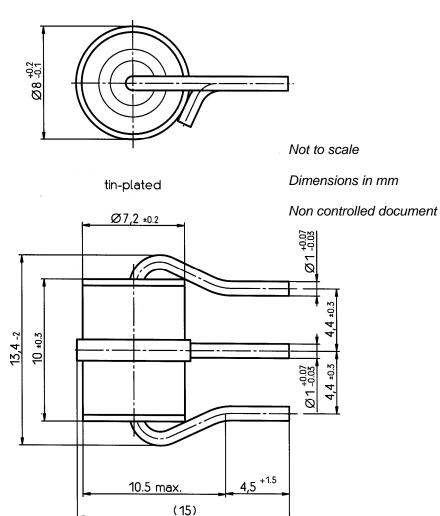
## **3-electrode arrester**

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- <sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859
- <sup>2)</sup> In ionized mode
- <sup>3)</sup> Test according to ITU-T Rec. K.12
- <sup>4)</sup> Tip or ring electrode to center electrode
- <sup>5)</sup> 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.

#### KB AB E / KB AB PM



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