

## Surge arrester

3-electrode arrester

 Series/Type:
 EZ3-A90X

 Ordering code:
 B88069X4991B502

 Version/Date:
 Issue 03 / 2007-09-06

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## Surge arrester

### **3-electrode arrester**

B88069X4991B502

EZ3-A90X

Features	Applications	
<ul> <li>Extremely small size</li> </ul>	<ul> <li>Branch exchange (MDF)</li> </ul>	
<ul> <li>Fast response time</li> </ul>	Line protection	
<ul> <li>High current rating</li> </ul>	<ul> <li>Station protection</li> </ul>	
<ul> <li>Stable performance over life</li> </ul>		
<ul> <li>Very low capacitance</li> </ul>		
<ul> <li>High insulation resistance</li> </ul>		
RoHS-compatible		

### **Electrical specifications**

DC spark-over voltage <sup>1) 2) 4)</sup>		90 ± 20	V %
Impulse spark-over voltage <sup>4)</sup> at 100 V/µs - for 99 % of measured values - typical values of distribution		< 450 < 350	V V
I I I I I I I I I I I I I I I I I I I	<ul> <li>for 99 % of measured values</li> <li>typical values of distribution</li> </ul>		V V
Service life 10 operations 1 operation 10 operations [5x (+) & 5x (-)] 1 operation 300 operations (alternating polarity) Insulation resistance at 50 V <sub>dc</sub> <sup>4)</sup>	50 Hz, 1 s <sup>5)</sup> 50 Hz, 0.18 s <sup>5)</sup> 8/20 μs <sup>5)</sup> 10/350 μs <sup>5)</sup> 10/1000 μs <sup>5)</sup>	5 5 5 1 200 > 1	A A kA kA A GΩ
Capacitance at 1 MHz $^{4)}$		< 1.5	pF
DC holdover voltage <sup>3)</sup> at 135 V <sub>dc</sub> / 1300 $\Omega$		< 150	ms
Transverse delay time <sup>3)</sup> Arc voltage at 1 A Glow to arc transition current Glow voltage		< 0.2 ~ 10 ~ 1 ~ 80	μs V A V
Weight		~ 1.0	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS EZ 90 YY O EZ - Series 90 - Nominal voltage YY - Year of production O - Non radioactive	

### KB AB E / KB AB PM

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# **⇔TDK**

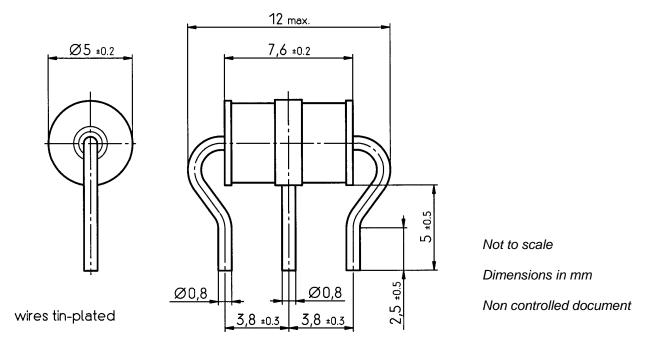
#### Surge arrester

### **3-electrode arrester**

- 1) 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 head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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