

# Surge arrester

3-electrode arrester

 Series/Type:
 EZ3-A230X

 Ordering code:
 B88069X5171B502

 Version/Date:
 Issue 02 / 2007-09-06

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# Surge arrester

# **3-electrode arrester**

Features	Applications	
<ul> <li>Extremely small size</li> </ul>	<ul> <li>Branch exchange (MDF)</li> </ul>	
<ul> <li>Fast response time</li> </ul>	<ul> <li>Line protection</li> </ul>	
<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>		
<ul> <li>RoHS-compatible</li> </ul>		

# **Electrical specifications**

DC spark-over voltage <sup>1) 2) 4)</sup> Impulse spark-over voltage <sup>4)</sup> at 100 V/µs - for 99 % of measured values - typical values of distribution		230 ± 20	V %
		< 600 < 450	V V
at 1 kV/µs - for 99 % of measured values - typical values of distribution		< 750 < 600	V V
Service life			
10 operations	50 Hz, 1 s <sup>5)</sup>	5	А
1 operation	50 Hz, 0.18 s <sup>5)</sup>	5	А
10 operations [5x (+) & 5x (–)]	8/20 µs <sup>5)</sup>	5	kA
1 operation	10/350 µs <sup>5)</sup>	1	kA
300 operations (alternating polarity)	10/1000 µs <sup>5)</sup>	200	A
Insulation resistance at 100 V <sub>dc</sub> <sup>4)</sup>		> 1	GΩ
Capacitance at 1 MHz <sup>4)</sup>		< 1.5	pF
DC holdover voltage <sup>3)</sup> at 135 $V_{dc}$ / 1300 $\Omega$		< 150	ms
Transverse delay time <sup>3)</sup>		< 0.2	μs
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		~ 1	А
Glow voltage		~ 80	V
Weight		~ 0.8	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue, negative		EPCOS EZ 230 YY O EZ - Series 230 - Nominal voltage YY - Year of productio O - Non radioactive	

#### KB AB E / KB AB PM

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## Surge arrester

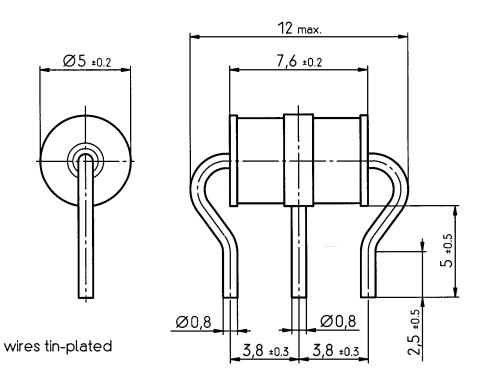
#### **3-electrode arrester**

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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**



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 the event of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In the event 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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