



## Surge arrester

### 3-electrode arrester

**Series/Type:** EZ3-A250XF1  
**Ordering code:** B88069X4521B502  
**Version/Date:** Issue 02 / 2007-09-06

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**Surge arrester**
**B88069X4521B502**
**3-electrode arrester**
**EZ3-A250XF1**

Features	Applications
<ul style="list-style-type: none"> <li>▪ Extremely small size</li> <li>▪ Fast response time</li> <li>▪ High current rating</li> <li>▪ Stable performance over life</li> <li>▪ Very low capacitance</li> <li>▪ High insulation resistance</li> <li>▪ Reliable failsafe device</li> <li>▪ RoHS-compatible</li> </ul>	<ul style="list-style-type: none"> <li>▪ Branch exchange (MDF)</li> <li>▪ Line protection</li> <li>▪ Station protection</li> </ul>

### Electrical specifications

DC spark-over voltage <sup>1) 2) 4)</sup>	250 ± 20	V %
Impulse spark-over voltage <sup>4)</sup> at 100 V/µs - for 99 % of measured values - typical values of distribution	< 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> 1 operation 50 Hz, 0.18 s <sup>5)</sup> 10 operations [5x (+) & 5x (-)] 8/20 µs <sup>5)</sup> 1 operation 10/350 µs <sup>5)</sup> 300 operations (alternating polarity) 10/1000 µs <sup>5)</sup>	5 5 5 1 200	A A kA kA 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 <sub>dc</sub> / 1300 Ω	< 150	ms
Transverse delay time <sup>3)</sup>	< 0.2	µs
Arc voltage at 1 A	~ 10	V
Glow to arc transition current	~ 1	A
Glow voltage	~ 80	V
Weight	~ 1.0	g
Storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	

Marking, blue negative

**EPCOS**  
**EZ 250 YY O**

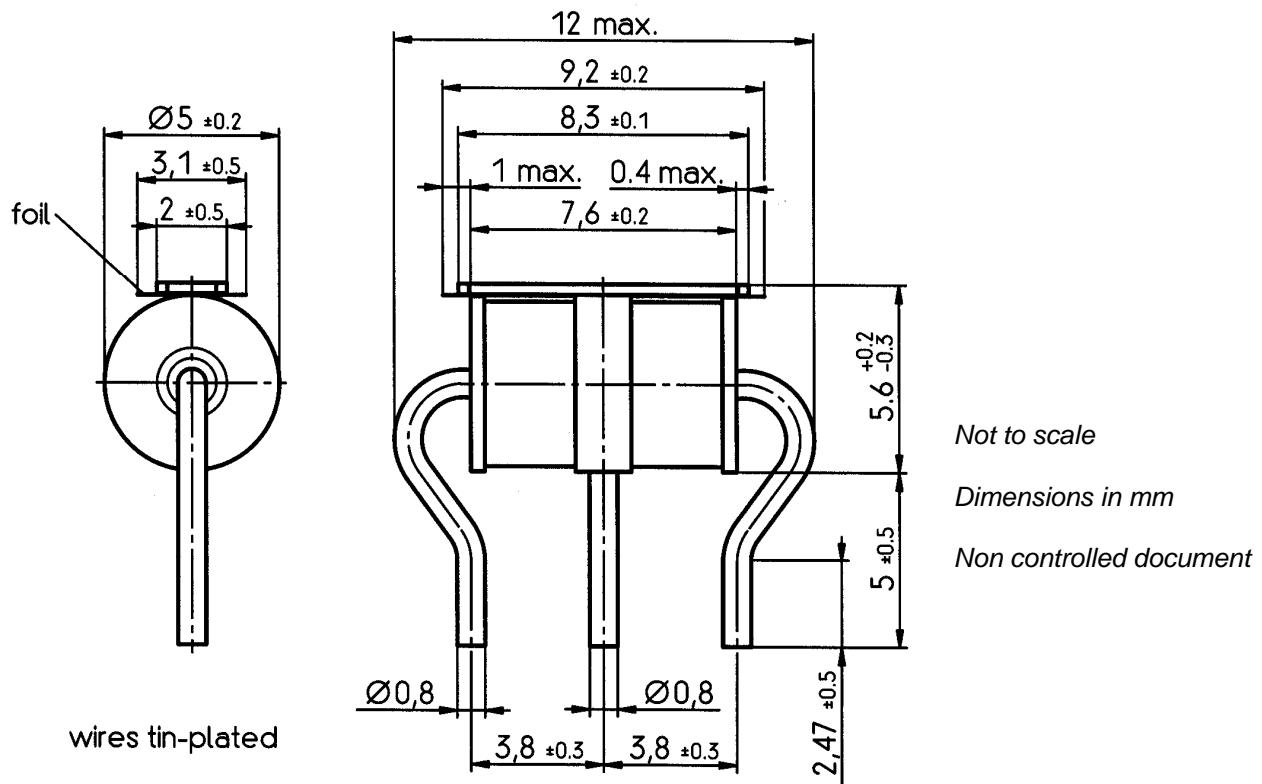
 EZ - Series  
 250 - Nominal voltage  
 YY - Year of production  
 O - Non radioactive

- 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

Arrester fail safe works at temperatures > 260 °C. The arrester has to be fixed mechanically, if the arrester is contacted by soldering and if the solder temperature is less than 260 °C.

### 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.
- Surge arrester with triggered short-circuit mechanism must not be re-used.

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