



## Surge arrester

### 3-electrode arrester

**Series/Type:** EZ3-A250X  
**Ordering code:** B88069X6061B502  
**Version/Date:** Issue 02 / 2007-09-06

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**Surge arrester**
**B88069X6061B502**
**3-electrode arrester**
**EZ3-A250X**

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>RoHS-compatible</li> </ul>	<ul style="list-style-type: none"> <li>Branch exchange (MDF)</li> <li>Line protection</li> <li>Station protection</li> </ul>

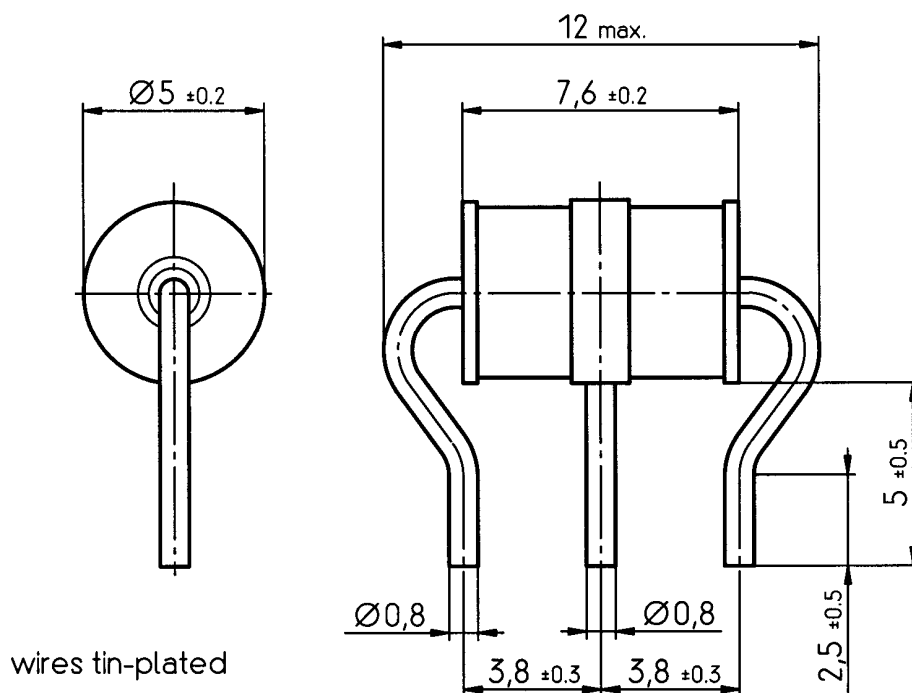
**Electrical specifications**

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	< 600	V
- typical values of distribution	< 450	V
at 1 kV/μs    - for 99 % of measured values	< 750	V
- typical values of distribution	< 600	V
Service life		
10 operations                      50 Hz, 1 s <sup>5)</sup>	5	A
1 operation                        50 Hz, 0.18 s <sup>5)</sup>	5	A
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 <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	~ 0.8	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue, negative	<b>EPCOS</b> <b>EZ 250 YY O</b> 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

## 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 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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