



## Surge arrester

2-electrode arrester

**Series/Type:** M50-A230X  
**Ordering code:** B88069X4600C253  
Version/Date: Issue 04 / 2007-04-18

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Features	Applications
<ul style="list-style-type: none"> <li>▪ Very small size</li> <li>▪ High current rating</li> <li>▪ Very fast response time</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</li> <li>▪ Line protection</li> <li>▪ Subscriber protection</li> <li>▪ Alarm system</li> </ul>

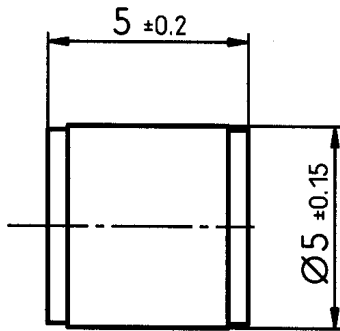
**Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	230 ± 20	V %
Impulse spark-over voltage		
at 100 V/μs   - for 99% of measured values	< 550	V
- typical values of distribution	< 500	V
at 1 kV/μs   - for 99% of measured values	< 650	V
- typical values of distribution	< 600	V
Service life		
10 operations   50 Hz, 1 s	5	A
1 operation    50 Hz, 0.18 s (9 cycles)	10	A
10 operations   8/20 μs	5	kA
1 operation    8/20 μs	10	kA
1 operation    10/350 μs	0.5	kA
Insulation resistance at 100 V <sub>DC</sub>	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	~ 0.5	A
Glow voltage	~ 60	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	<b>EPCOS 230 YY O</b> 230   - Nominal voltage YY   - Year of production O     - Non radioactive	

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

<sup>2)</sup> In ionized mode

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

**Dimensional drawing**


nickel-plated

*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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

## Important notes

The following applies to all products named in this publication:

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2. We also point out that **in individual cases, a malfunction of passive electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of a passive electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of a passive electronic component.
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