



## Surge arrester

2-electrode arrester

**Series/Type:** N80-A230X  
**Ordering code:** B88069X4900xxxx <sup>a)</sup>  
**Version/Date:** Issue 04 / 2006-01-18

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Features	Applications
<ul style="list-style-type: none"> <li>▪ Standard 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>▪ Subscriber protection</li> </ul>

**Electrical specifications**

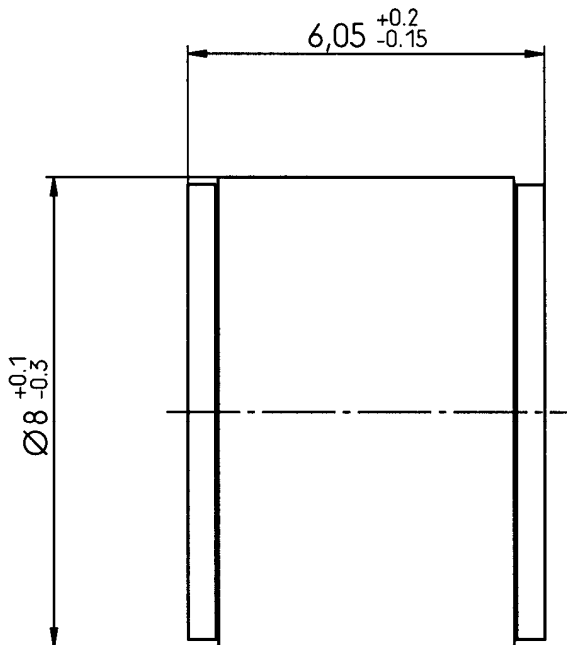
DC spark-over voltage <sup>1) 2)</sup>	230 ± 20	V %
Impulse spark-over voltage		
at 100 V/μs - for 99 % of measured values	< 550	V
- typical values of distribution	< 500	V
at 1 kV/μs - for 99 % of measured values	< 700	V
- typical values of distribution	< 600	V
Service life <sup>8)</sup>		
10 operations    50 Hz; 1 s	10	A <sub>rms</sub>
1 operation     50 Hz; 0.18 s (9 cycles)	65	A <sub>rms</sub>
1 operation     10/350 μs	2.5	kA
10 operations   8/20 μs	10	kA
1 operation     8/20 μs	12	kA
300 operations  10/1000 μs	100	A
Insulation resistance at 100 V <sub>dc</sub>	> 10	GΩ
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A	~ 12	V
Glow to arc transition current	~ 0.5	A
Glow voltage	~ 60	V
Weight	~ 1.5	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red negative	<b>EPCOS 230 YY O</b> 230 - Nominal voltage YY - Year of production O - Non radioactive	

<sup>a)</sup> xxxx = C103 (container with 1000 pcs.)  
           = C403 (container with 4000 pcs.)

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

## Important notes

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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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