



## Surge arrester

2-electrode arrester

**Series/Type:** M51-A800XP  
**Ordering code:** B88069X4781xxxx <sup>a)</sup>  
**Version/Date:** Issue 04 / 2008-01-17

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Features	Applications
<ul style="list-style-type: none"> <li>▪ Small size</li> <li>▪ Very fast response time</li> <li>▪ Stable performance over life</li> <li>▪ High insulation resistance</li> <li>▪ RoHS-compatible</li> </ul>	<ul style="list-style-type: none"> <li>▪ AC power lines</li> <li>▪ Class II (class C) - requirements</li> </ul>

**Electrical specifications**

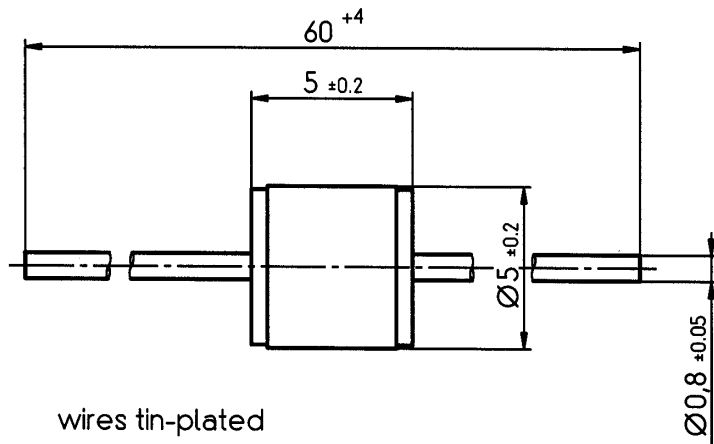
DC spark-over voltage <sup>1) 2)</sup>	> 600	V
Impulse spark-over voltage		
- at 1 kV/μs - for 99 % of measured values	< 1200	V
- typical values of distribution	< 1100	V
- at 5 kV/μs - for 99 % of measured values	< 1500	V
- typical values of distribution	< 1200	V
- at 1.2/50 μs, 6 kV, for 99 % of measured values <sup>3)</sup>	< 1500	V
Response time	< 100	ns
- typical values	< 20	ns
Insulation resistance at 100 V <sub>dc</sub>	> 1	GΩ
Class II according to EN 61643-11		
Max. continuous operating voltage at 50/60 Hz	U <sub>c</sub>	255 V <sub>rms</sub>
Nominal discharge current 8/20 μs	I <sub>n</sub>	3 kA
Maximum discharge current 8/20 μs	I <sub>max</sub>	3 kA
Follow current at 50/60 Hz	I <sub>f</sub>	5 A <sub>rms</sub>
Weight	~ 3	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue positive	<b>EPCOS 800 YY O</b> 800 - Nominal voltage YY - Year of production O - Non radioactive	

<sup>a)</sup> xxxx = S102 (100 pcs on 5 taped stripes)  
 = T502 (500 pcs on tape and reel)

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

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

<sup>3)</sup> Test in accordance with EN 61 643-11

**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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