



## **Surge arrester**

2-electrode arrester

**Series/Type:** EM300XS  
**Ordering code:** B88069X1780S102  
**Version/Date:** Issue 06 / 2007-01-11

Features	Applications
<ul style="list-style-type: none"> <li>Very small size</li> <li>Very fast response time</li> <li>Stable performance over life</li> <li>Extremely low capacitance</li> <li>High insulation resistance</li> <li>RoHS-compatible</li> </ul>	<ul style="list-style-type: none"> <li>Modem</li> <li>XDSL-splitter</li> <li>Tuner</li> </ul>

**Electrical specifications**

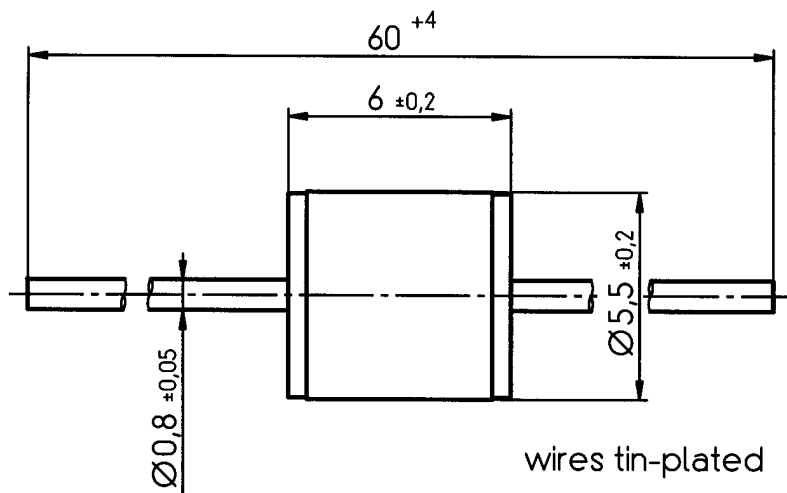
DC spark-over voltage <sup>1) 2)</sup>	270 ... 345	V
Impulse spark-over voltage		
at 100 V/μs   - for 99 % of measured values	< 500	V
- typical values of distribution	< 450	V
at 1 kV/μs    - for 99 % of measured values	< 600	V
- typical values of distribution	< 550	V
Service life		
10 operations    8/20 μs	2.5	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	~ 11	V
Glow to arc transition current	~ 0.5	A
Glow voltage	~ 130	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/21	
Marking, red positive	<b>EPCOSEM 300 YY O</b> EM    - Series 300   - 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



*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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