

# Surge arrester

2-electrode arrester

Series/Type:EM300XOrdering code:B88069X0800xxxx a)Version/Date:Issue 07 / 2007-01-11

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# Surge arrester

#### 2-electrode arrester

B88069X0800xxxx <sup>a)</sup>

EM300X

Features	Applications
<ul> <li>Very small size</li> </ul>	Modem
<ul> <li>Fast response time</li> </ul>	<ul> <li>XDSL-splitter</li> </ul>
<ul> <li>Stable performance over life</li> </ul>	Tuner
<ul> <li>Extremely low capacitance</li> </ul>	
<ul> <li>High insulation resistance</li> </ul>	
<ul> <li>RoHS-compatible</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	< 700	V
- typical values of distribution	< 600	v
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 800 < 700	V V
Service life		
10 operations 50 Hz, 1 s	2.5	A
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	~ 80	V
Weight	~ 1	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/21	
Marking, red positive	EPCOSEM 300 YY O EM - Series 300 - 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

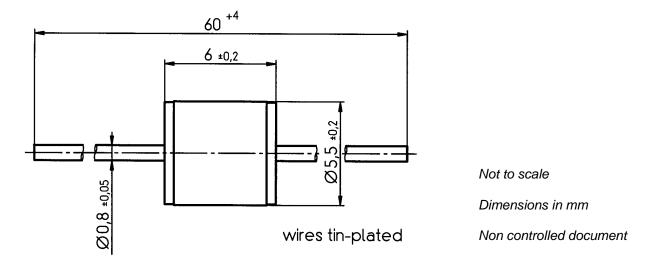
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845



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## **Dimensional drawing**



### 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.

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