

# Surge arrester

2-electrode arrester

Series/Type:EM90XOrdering code:B88069X0190xxxx a)Version/Date:Issue 07 / 2006-08-31

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# Surge arrester

# EM90X Applications

Features	Applications
Very small size	Modem
<ul> <li>Very fast response time</li> </ul>	<ul> <li>XDSL-splitter</li> </ul>
<ul> <li>Stable performance over life</li> </ul>	<ul> <li>Data lines</li> </ul>
<ul> <li>Extremely low capacitance</li> </ul>	Tuner
<ul> <li>High insulation resistance</li> </ul>	<ul> <li>Antenna</li> </ul>
<ul> <li>RoHS-compatible</li> </ul>	

## **Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	90 ± 20	V %
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution	< 400 < 330	V V
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 600 < 530	V V
Service life 10 operations 50 Hz, 1 s 10 operations 8/20 µs 1 operation 10/350 µs	2.5 2.5 0.5	A kA kA
Insulation resistance at 50 V <sub>dc</sub>	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 ~ 0.8 ~ 80	V A V
Weight	~ 1	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red positive	EPCOS EM 90 YY OEM- Series90- Nominal voltageYY- Year of productionO- 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

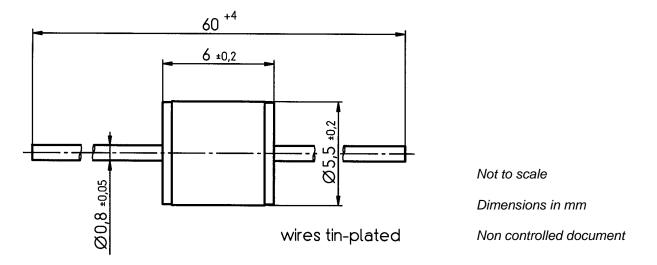
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845



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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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