Surge arrester

2-electrode arrester

Series/Type: **EM1000X**
Ordering code: **B88069X4651xxxx** [a)]

Version/Date: Issue 02 / 2007-01-12

Features	Applications
▪ Very small size ▪ Fast response time ▪ Stable performance over life ▪ Extremely low capacitance ▪ High insulation resistance ▪ RoHS-compatible	▪ AC power line devices ▪ Consumer electronics ▪ Power supply ▪ Modem

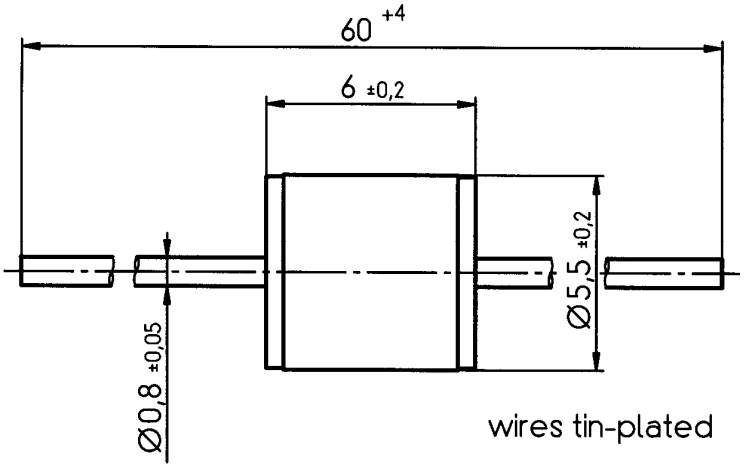
Electrical specifications

DC spark-over voltage [1) 2)]	1000 ± 20	V %
Impulse spark-over voltage at 100 V/µs - for 99 % of measured values - typical values of distribution at 1 kV/µs - for 99 % of measured values - typical values of distribution	 < 1700 < 1600 < 1900 < 1800	 V V V V
Service life 10 operations 50 Hz, 1 s 3 operations 8/20 µs 1 operation 8/20 µs 300 operations 10/1000 µs	 2 2 2.5 100	 A kA kA A
Insulation resistance at 100 V_{dc}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 11 ~ 0.5 ~ 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 1000 YY O** EM - Series 1000 - Nominal voltage YY - Year of production O - Non radioactive	

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

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) 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

The following applies to all products named in this publication:

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