Surge arrester

2-electrode arrester

Series/Type:	**EM300X**
Ordering code:	**B88069X0800xxxx** [a)]
Version/Date:	Issue 07 / 2007-01-11

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Features	Applications
▪ Very small size ▪ Fast response time ▪ Stable performance over life ▪ Extremely low capacitance ▪ High insulation resistance ▪ RoHS-compatible	▪ Modem ▪ XDSL-splitter ▪ Tuner

Electrical specifications

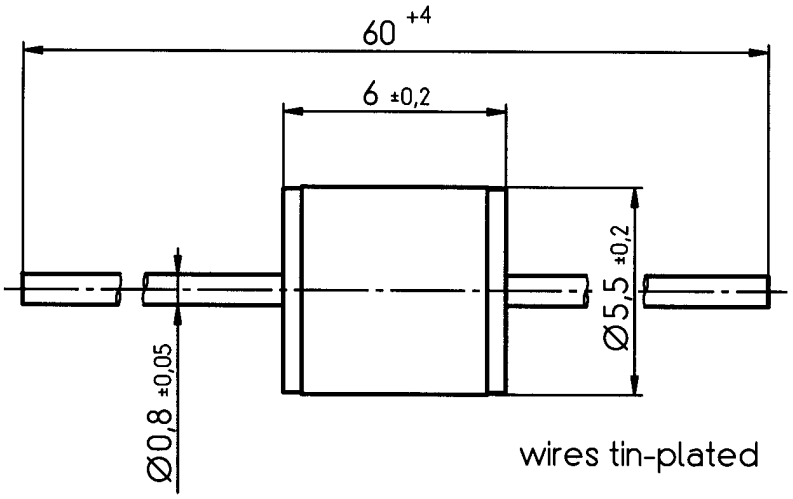
DC spark-over voltage [1) 2)]	270 ... 345	V
Impulse spark-over voltage		
at 100 V/µs - for 99 % of measured values	< 700	V
at 100 V/µs - typical values of distribution	< 600	V
at 1 kV/µs - for 99 % of measured values	< 800	V
at 1 kV/µs - typical values of distribution	< 700	V
Service life		
10 operations 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_{dc}	> 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	**EPCOS EM 300 YY O** EM - Series 300 - 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.

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