Surge arrester

2-electrode arrester

Series/Type:	**M51-A600X**
Ordering code:	**B88069X4590C102**
Version/Date:	Issue 04 / 2009-05-25

EPCOS AG is a TDK Group Company.

Surge arrester **B88069X4590C102**

2-electrode arrester **M51-A600X**

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

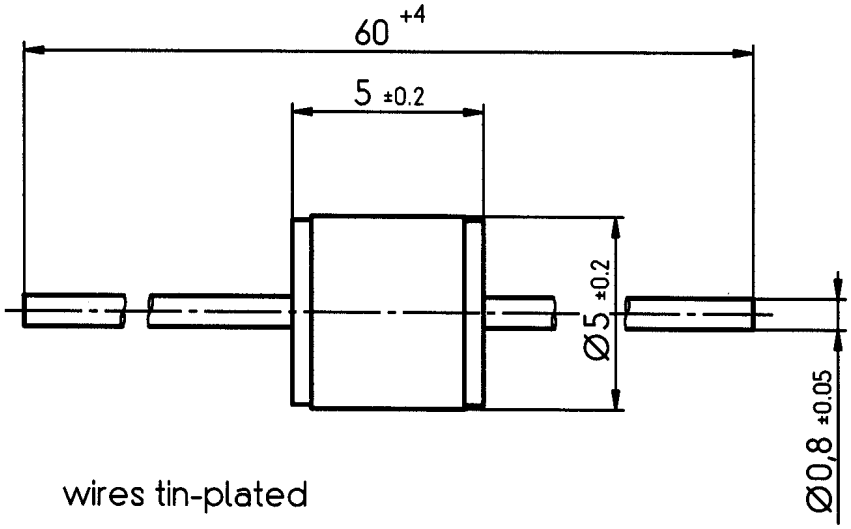
Electrical specifications

DC spark-over voltage [1) 2)]		570 … 780	V
Impulse spark-over voltage			
at 100 V/µs	- for 99 % of measured values	< 1350	V
	- typical values of distribution	< 1200	V
at 1 kV/µs	- for 99 % of measured values	< 1500	V
	- typical values of distribution	< 1350	V
Service life			
10 operations	50 Hz, 1 s	5	A
1 operation	50 Hz, 0.18 s (9 cycles)	10	A
10 operations	8/20 µs	5	kA
1 operation	8/20 µs	10	kA
1 operation	10/350 µs	1	kA
Insulation resistance at 100 V_{dc}		> 1	GΩ
Capacitance at 1 MHz		< 1	pF
Arc voltage at 1 A		~ 15	V
Glow to arc transition current		~ 0.5	A
Glow voltage		~ 60	V
Weight		~ 1	g
Operation and storage temperature		-40 ... +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		**EPCOS 600 YY O** 600 - Nominal voltage YY - Year of production O - Non radioactive	

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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