

# Surge arrester

2-electrode arrester

Series/Type: M51-A600X Ordering code: B88069X459

Ordering code: B88069X4590C102

Version/Date: Issue 04 / 2009-05-25

VC131011/1Date: 1334C 0+ / 2003 03 23

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B88069X4590C102 Surge arrester

#### M51-A600X 2-electrode arrester

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

## **Electrical specifications**

DC spark-over voltage 1) 2)	570 780	V
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values - typical values of distribution	< 1350 < 1200	V
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 1500 < 1350	V
Service life		
10 operations 50 Hz, 1 s	5	Α
1 operation 50 Hz, 0.18 s (9 cycles)	10	Α
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 <sub>dc</sub>	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	~ 0.5	Α
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	

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859 In ionized mode

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

KB PD AB E / KB PD AB PM Issue 04 / 2009-05-25

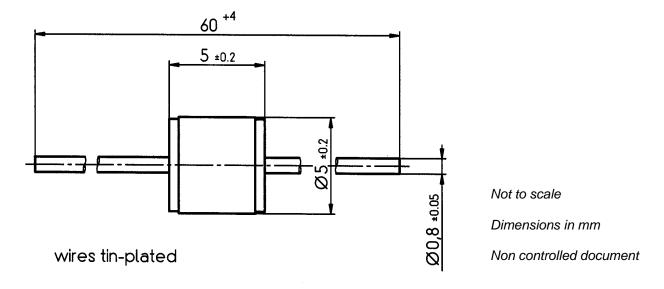


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M51-A600X

### **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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