



## Surge arrester

2-electrode arrester

**Series/Type:** EC600X  
**Ordering code:** B88069X0780S102  
Version/Date: Issue 06 / 2007-04-19

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Features	Applications
<ul style="list-style-type: none"> <li>▪ Standard size</li> <li>▪ Fast response time</li> <li>▪ High current rating</li> <li>▪ Stable performance over life</li> <li>▪ Very low capacitance</li> <li>▪ High insulation resistance</li> <li>▪ RoHS-compatible</li> </ul>	<ul style="list-style-type: none"> <li>▪ AC powerline devices</li> <li>▪ Consumer electronics</li> <li>▪ Power supply</li> </ul>

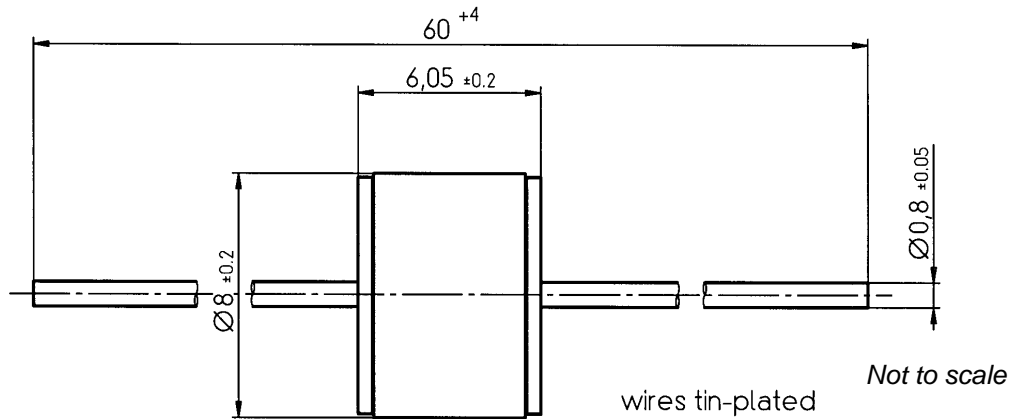
**Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	540 ... 720	V
Impulse spark-over voltage		
at 100 V/μs - for 99% of measured values	< 1200	V
- typical values of distribution	< 1000	V
at 1 kV/μs - for 99% of measured values	< 1300	V
- typical values of distribution	< 1100	V
Service life		
10 operations      50 Hz, 1 s	10	A
1 operation        50 Hz, 0.18 s (9 cycles)	65	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 <sub>DC</sub>	> 10	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 12	V
Glow to arc transition current	~ 0.8	A
Glow voltage	~ 80	V
Weight	~ 1.5	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red positive	<b>EPCOSEC 600 YY O</b> EC    - Series 600   - Nominal voltage YY   - Year of production O    - Non radioactive	

<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

**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 the event of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In the event of overload, the lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

## Important notes

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2. We also point out that **in individual cases, a malfunction of passive electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of a passive electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of a passive electronic component.
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