



## Surge arrester

2-electrode arrester

**Series/Type:** EC75X  
**Ordering code:** B88069X0180xxxx <sup>a)</sup>  
**Version/Date:** Issue 04 / 2007-04-19

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Features	Applications
<ul style="list-style-type: none"> <li>▪ Standard size</li> <li>▪ High current rating</li> <li>▪ Very fast response time</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>▪ Modem</li> <li>▪ XDSL-splitter</li> <li>▪ Data lines</li> <li>▪ Tuner</li> <li>▪ Antenna</li> </ul>

**Electrical specifications**

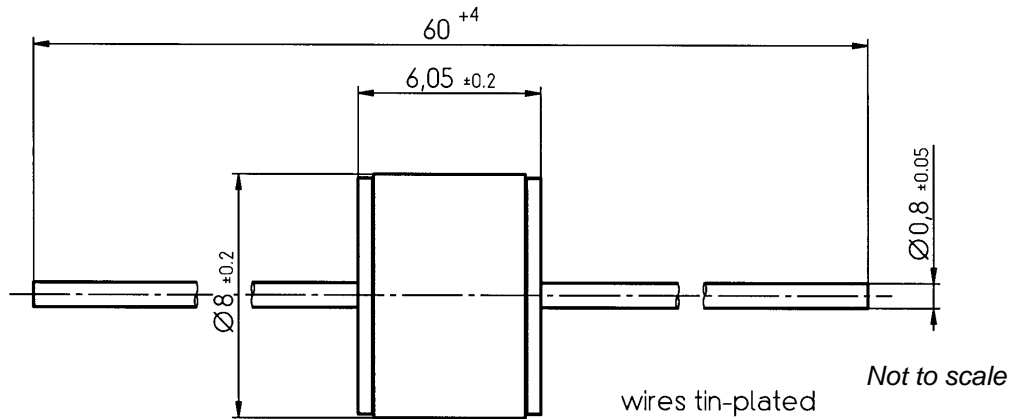
DC spark-over voltage <sup>1) 2)</sup>	75 ± 20	V %
Impulse spark-over voltage		
at 100 V/μs - for 99% of measured values	< 500	V
- typical values of distribution	< 400	V
at 1 kV/μs - for 99% of measured values	< 700	V
- typical values of distribution	< 600	V
Service life		
10 operations      50 Hz, 1 s	5	A
1 operation        50 Hz, 0.18 s (9 cycles)	20	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 50 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 75 YY O</b> EC    - Series 75    - Nominal voltage YY    - Year of production O     - Non radioactive	

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

<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.

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