

# **Surge arrester**

2-electrode arrester

Series/Type: EM230X

Ordering code: B88069X0900xxxx a)

Version/Date: Issue 07 / 2007-01-11

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Surge arrester

2-electrode arrester

EM230X

Features	Applications
<ul> <li>Very small size</li> </ul>	■ Modem
<ul> <li>Fast response time</li> </ul>	<ul> <li>XDSL-splitter</li> </ul>
<ul> <li>Stable performance over life</li> </ul>	<ul> <li>Station protection</li> </ul>
<ul> <li>Extremely low capacitance</li> </ul>	<ul> <li>Consumer electronics</li> </ul>
<ul> <li>High insulation resistance</li> </ul>	
<ul> <li>RoHS-compatible</li> </ul>	

## **Electrical specifications**

DC spark-over voltage 1) 2)	230	V %
	± 20	70
Impulse spark-over voltage		
at 100 V/µs - for 99 % of measured values	< 650	V
<ul> <li>typical values of distribution</li> </ul>	< 600	V
at 1 kV/µs - for 99 % of measured values	< 700	V
<ul> <li>typical values of distribution</li> </ul>	< 650	V
Service life		
10 operations 50 Hz, 1 s	2.5	Α
10 operations 8/20 μs	2.5	kA
1 operation 10/350 μs	0.5	kA
Insulation resistance at 100 V <sub>dc</sub>	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 11	V
Glow to arc transition current	~ 0.5	Α
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	EPCOSEM 230 YY ( EM - Series 230 - 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)

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

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 $<sup>^{1)}</sup>_{21}$  At delivery AQL 0.65 level II, DIN ISO 2859

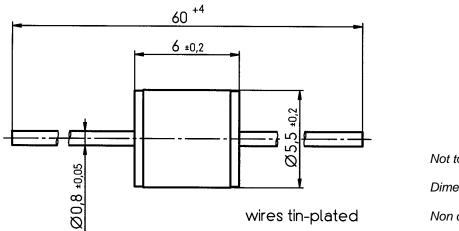
<sup>2)</sup> In ionized mode



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# **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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