

# Surge arrester

2-electrode arrester

Series/Type:EM4000XSOrdering code:B88069X4251xxxx a)Version/Date:Issue 02 / 2007-01-12

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## Surge arrester

#### 2-electrode arrester

B88069X4251xxxx <sup>a)</sup> EM4000XS

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

#### **Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	4000 ± 20	V %	
Impulse spark-over voltage at 100 V/µs - for 99 % of measured values	< 4800	V	
<ul> <li>typical values of distribution</li> <li>at 1 kV/µs</li> <li>for 99 % of measured values</li> <li>typical values of distribution</li> </ul>	< 4200 < 4900 < 4400	V V V	
Service life 3 operations 8/20 µs 1 operation 8/20 µs 300 operations 10/1000 µs	2 2.5 100	kA kA A	
Insulation resistance at 100 $V_{dc}$	> 1	GΩ	
Capacitance at 1 MHz	< 1	pF	
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 ~ 1 ~ 140	V A V	
Weight	~ 1	g	
Operation and storage temperature	-40 +90	°C	
Climatic category (IEC 60068-1)	40/ 90/21	40/ 90/21	
Marking, red positive	EM - Series 4000 - Nominal voltag YY - Year of produc	4000 - Nominal voltage YY - Year of production	

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

1) 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

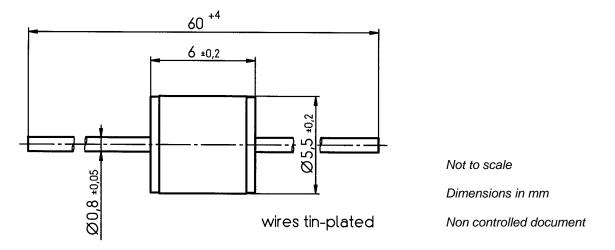


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#### **Dimensional drawing**



#### **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 head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.



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