

# Surge arrester

2-electrode arrester

Series/Type: ES300XN Ordering code: B88069X4

Ordering code: B88069X4190T103

Version/Date: Issue 07 / 2007-01-15



Surge arrester B88069X4190T103

# 2-electrode arrester ES300XN

Features	Applications
<ul> <li>Extremely small size</li> </ul>	■ Modem
<ul> <li>Very fast response time</li> </ul>	<ul> <li>XDSL-splitter</li> </ul>
<ul> <li>Stable performance over life</li> </ul>	■ Tuner
<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 1) 2)	300 ± 15	V %	
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution	< 480 < 450	V	
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 550 < 500	V V	
Service life			
10 operations 8/20 μs 1 operation 8/20 μs	2.5 5	kA kA	
Insulation resistance at 100 V <sub>dc</sub>	> 1	$G\Omega$	
Capacitance at 1 MHz	< 1	pF	
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 < 0.5 ~ 130	V A V	
Weight	~ 0.3	g	
Operation and storage temperature	-40 +90	°C	
Climatic category (IEC 60068-1)	40/ 90/ 21		
Marking, red positive	ES - Series 300 - Nominal voltage	300 - Nominal voltage YY - Year of production	

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

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

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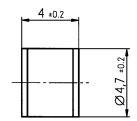
<sup>2)</sup> In ionized mode

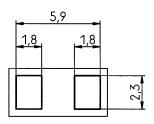


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#### **Dimensional drawing**





tin-plated

Not to scale

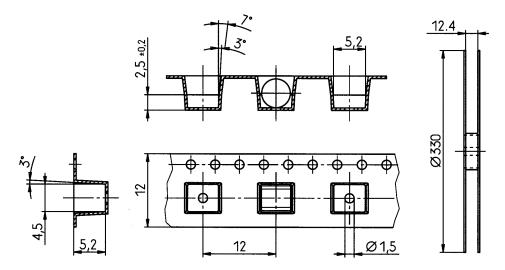
Dimensions in mm

Non controlled document

recommended pad outline

## Packing advice

T103 = 1000 pcs. on tape and reel



### **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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