

# Surge arrester

2-electrode arrester

Series/Type: **EM4500XS** 

Series/Type: Ordering code: B88069X9271\*\*\*\*

Issue 02 / 2011-01-26 Version/Date:



Surge arrester B88069X9271\*\*\*\*

# 2-electrode arrester EM4500XS

# **Preliminary data**

#### **Features**

- Very small size
- Very fast response time
- Stable performance over life
- Extremely low capacitance
- High insulation resistance
- RoHS-compatible

# **Applications**

- AC power line devices
- Consumer electronics
- Power supply

# **Electrical specifications**

DC spark-over voltage 1) 2)	4500	V
	± 20	%
Impulse spark-over voltage		
at 100 V/µs - for 99 % of measured values	< 5200	V
- typical values of distribution	< 4600	V
Service life 3)		
	2	kA
3 operations 8/20 µs		
1 operation 8/20 μs	2.5	kA
300 operations 8/20 μs	100	Α
Insulation resistance at 100 V <sub>DC</sub>	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	~ 1	Α
Glow voltage	~ 140	V
Weight	~ 1	g
Operation and storage temperature	-40 <b>+</b> 90	°C
Climatic category (IEC 60068-1)	40/ 90/21	
Marking, red positive	EPCOSEM 4500 YY O  EM - Series 4500 - Nominal voltage YY - Year of production O - Non radioactive	

<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

<sup>3)</sup> Voltage withstand test AC 2000 V, 1 s

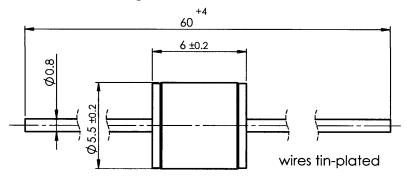


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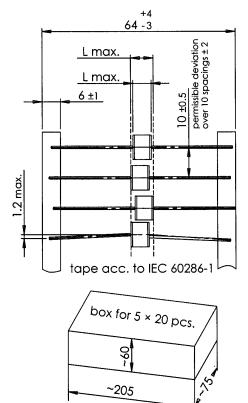
## Dimensional drawing in mm

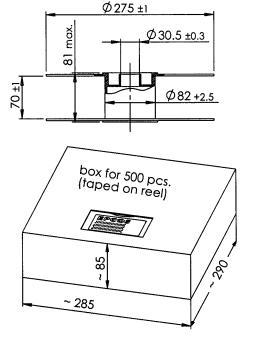


### Ordering codes and packing advices

B88069X9271**\$102** = 100 pcs on 5 taped stripes

B88069X9271**T502** = 500 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 head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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