



## Surge arrester

2-electrode arrester

**Series/Type:** EM3600X  
**Ordering code:** B88069X2311 \*\*\*\*  
Version/Date: Issue 02 / 2010-05-18

**Features**

- Very small size
- 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 <sup>1) 2)</sup>	3600 ± 20	V %
Impulse spark-over voltage at 100 V/μs - for 99 % of measured values - typical values of distribution	< 5500 < 4000	V V
at 1 kV/μs - for 99 % of measured values - typical values of distribution	< 6000 < 5500	V V
Service life <sup>3)</sup>		
10 operations 50 Hz; 1 s	1	A
3 operations 8/20 μs	2	kA
300 operations 8/20 μs	100	A
Insulation resistance at 100 V <sub>dc</sub>	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	~ 1	A
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	<b>EPCOSEM 3600 YY O</b> EM - Series 3600 - Nominal voltage YY - Year of production O - Non radioactive	

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

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

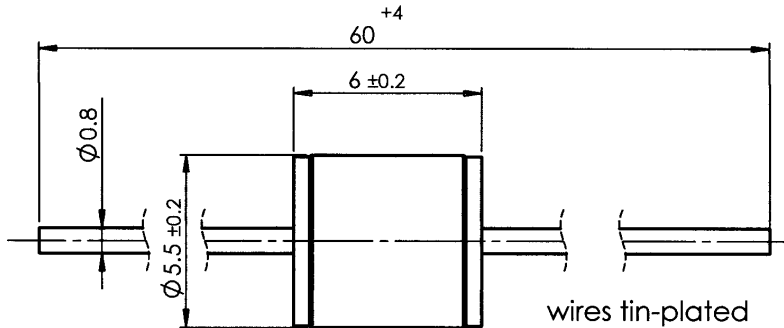
<sup>3)</sup> Arrester has to meet:

Voltage withstand test AC 1500 V, 1 min  
and AC 1800 V, 1 s

with accepted failure rate of 1 %

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

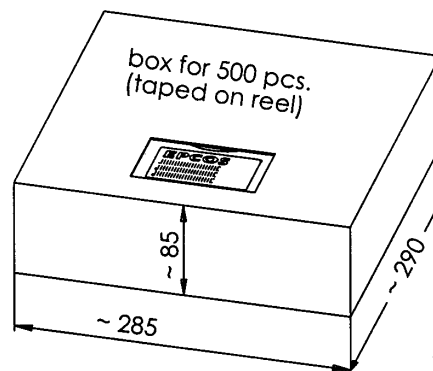
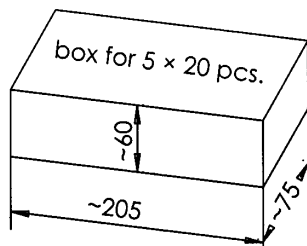
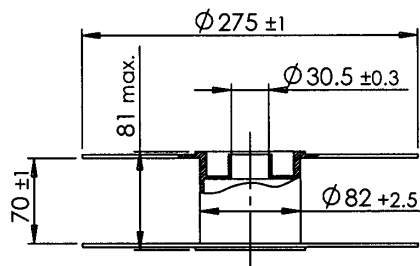
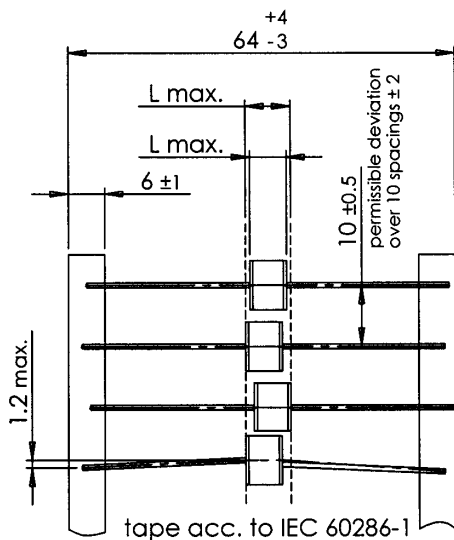
**Dimensional drawing in mm**



**Ordering codes and packing advices**

B88069X...**S102** = 100 pcs on 5 taped stripes

B88069X...**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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