

Surge arrester

2-electrode arrester

Series/Type: Ordering code: **EM300X**

B88069X0800xxxx a) Issue 07 / 2007-01-11 Version/Date:



B88069X0800xxxx a) Surge arrester **EM300X** 2-electrode arrester

Features	Applications	
 Very small size 	■ Modem	
 Fast response time 	 XDSL-splitter 	
 Stable performance over life 	■ Tuner	
 Extremely low capacitance 		
 High insulation resistance 		
 RoHS-compatible 		

Flectrical specifications

DC spark-over voltage 1)2)	270 345	V	
Impulse spark-over voltage at 100 V/µs - for 99% of measured values - typical values of distribution	< 700 < 600	V	
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 800 < 700	V	
Service life 10 operations 50 Hz, 1 s 10 operations 8/20 µs	2.5 2.5	A kA	
1 operation 10/350 μs Insulation resistance at 100 V_{dc}	0.5 > 1	kA GΩ	
Capacitance at 1 MHz	< 1	pF	
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 11 ~ 0.5 ~ 80	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	d positive EPCOS EM 300 YY O EM - Series 300 - Nominal voltage YY - Year of production O - Non radioactive		

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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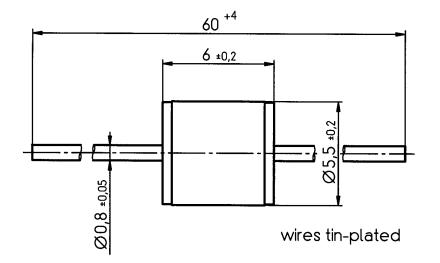
 $^{^{1)}}$ At delivery AQL 0.65 level II, DIN ISO 2859 $^{2)}$ In ionized mode



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



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