

Surge arrester

2-electrode arrester

Series/Type:EM300XOrdering code:B88069X0800xxxx a)Version/Date:Issue 07 / 2007-01-11

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Surge 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 		

Electrical 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 V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 800 < 700	V V
Service life		
10 operations 50 Hz, 1 s	2.5	A
10 operations 8/20 μs	2.5	kA
1 operation 10/350 µs	0.5	kA
Insulation resistance at 100 V_{dc}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 11	V
Glow to arc transition current	~ 0.5	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	EPCOSEM 300 YY EM - Series 300 - Nominal voltage YY - Year of productio O - Non radioactive	-

^{a)} 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

²⁾ In ionized mode

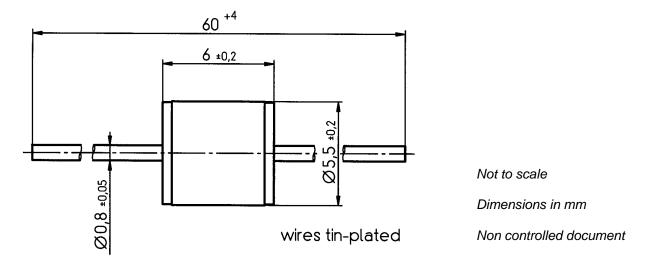
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845



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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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