

Surge arrester

2-electrode arrester

Series/Type: Ordering code: **EM1000X**

B88069X4651xxxx a) Issue 02 / 2007-01-12 Version/Date:



Surge arrester B88069X4651xxxx a)
2-electrode arrester EM1000X

Features	Applications	
 Very small size 	AC power line devices	
 Fast response time 	 Consumer electronics 	
 Stable performance over life 	Power supply	
 Extremely low capacitance 	■ Modem	
 High insulation resistance 		
 RoHS-compatible 		

Electrical specifications

DC spark-over voltage 1) 2)	1000 ± 20	V %	
Impulse spark-over voltage at 100 V/μs - for 99% of measured values - typical values of distribution	< 1700 < 1600	V	
at 1 kV/µs - for 99% of measured values - typical values of distribution	< 1900 < 1800	V	
Service life 10 operations 50 Hz, 1 s 3 operations 8/20 µs 1 operation 8/20 µs 300 operations 10/1000 µs	2 2 2.5 100	A kA kA A	
Insulation resistance at 100 V _{dc}	> 1	GΩ	
Capacitance at 1 MHz	< 1	pF	
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 11 ~ 0.5 ~ 80 ~ 1	~ 0.5 ~ 80 V	
Operation and storage temperature	-40 +90	g °C	
Operation and storage temperature Climatic category (IEC 60068-1)	40/ 90/21		
Marking, red positive	EM - Series 1000 - Nominal volta YY - Year of produ	1000 - Nominal voltage YY - Year of production	

a) 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

KB AB E / KB AB PM Issue 02 / 2007-01-12

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

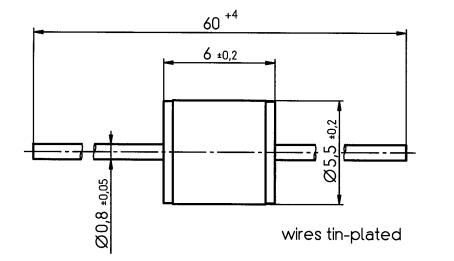
²⁾ In ionized mode



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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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