

Surge arrester

2-electrode arrester

Series/Type: Ordering code: **EM3000XS**

B88069X4231xxxx a) Issue 03 / 2007-01-12 Version/Date:



Surge arrester B88069X4231xxxx ^{a)}

2-electrode arrester EM3000XS

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

Electrical specifications

Liectrical Specifications		
DC spark-over voltage 1) 2)	3000 ± 20	V %
Impulse spark-over voltage at 100 V/µs - for 99 % of measured values - typical values of distribution	< 3800 < 3400	V
at 1 kV/μs - for 99 % of measured values - typical values of distribution	< 4000 < 3500	V
Service life		
10 operations 8/20 μs	2	kA
1 operation 8/20 μs	5	kA
1000 operations 10/1000 μs	100	А
Insulation resistance at 100 V _{dc}	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 ~ 1 ~ 140	V A V
Weight	~ 1	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1) 40/ 90/21		•
Marking, red positive	EPCOS EM 3000 YY EM - Series 3000 - Nominal voltage YY - Year of production O - Non radioactive	

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 03 / 2007-01-12

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

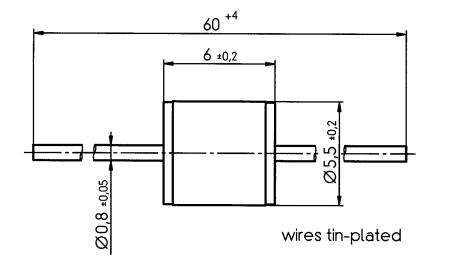
²⁾ In ionized mode



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



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