

Surge arrester

2-electrode arrester

Series/Type: EM3000XS

Ordering code: B88069X4231****

Date: 2016-04-28

Version: 05

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2-electrode arrester EM3000XS

Features

- Small size
- Fast response time
- Stable performance over service life
- Low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Modem
- XDSL-splitter
- Station protection
- Consumer electronics
- Tuner

Electrical specifications

DC spark-over voltage 1) 2)	3000	V
Tolerance	±20	%
Min.	2400	V
Max.	3600	V
Impulse spark-over voltage		
at 100 V/µs - for 99 % of measured values	< 3800	V
- typical values of distribution	< 3600	V
at 1 kV/µs - for 99 % of measured values	< 4000	V
- typical values of distribution	< 3800	V
Service life		
10 operations 50 Hz; 1 s	1	Α
300 operations 8/20 µs	100	Α
10 operations 8/20 µs	2	kA
1 operation 8/20 μs	5	kA
Insulation resistance at 100 V _{DC}	> 1	GΩ
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 35	V
Glow to arc transition current	< 0.7	Α
Glow voltage at 0.1 A	~ 170	V
AC withstand voltage		
1 min	1250	V
1 s	1500	V
Weight	~ 1	g
Operation temperature	-40 +125	°C
Recommended storage		
- temperature	+5 +35	°C
- humidity	45 80	%
- period	≤ 2	years
Climatic category (IEC 60068-1)	40/125/21	
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EPCOS EM 3000 YY O EM - Series 3000 - Nominal voltage	
YY - Year of production O - Non radioactive	
UL 1449 (E319264)	

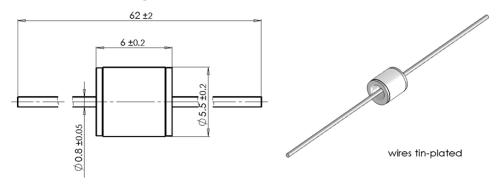
1) At delivery AQL 0.65 level II, DIN ISO 2859

Certifications

Marking, blue positive

Terms in accordance with: ITU-T Rec. K. 12, 61643-311 and IEC 61663-2.

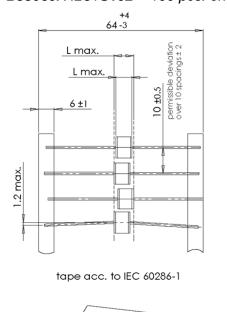
Dimensional drawing in mm

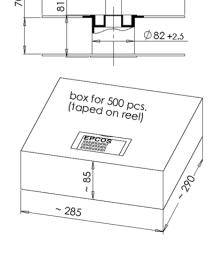


Ordering codes and packing advices

B88069X4231**S102** = 100 pcs. on 5 taped stripes

B88069X4231**T502** = 500 pcs. on tape & reel





Ø275 ±1

Ø 30.5 ±0.3

max

70 ±1

PPD AB PD / PPD AB PM

box for 5 x 20 pcs

~ 290

²⁾ In ionized mode

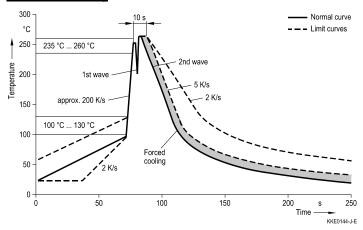


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Soldering parameter

Wave soldering



Wave profile features	Pb-free assembly
Solder	Sn 95.5 / Ag 3.8 / Cu 0.7
Solder bath temperature	263 (±3) °C
Dwell time	< 3 s

Soldering profile applied to a single soldering process.

Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- Electromagnetic fields and ionizing radiation may affect the electrical characteristics of the arrester. The impact of such effects (inductive and capacitive field distortion from adjacent components) must be avoided by appropriate circuit design measures.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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PPD AB PD / PPD AB PM 2016-04-28



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