

Surge arrester

2-electrode arrester

Series/Type: EM3600XS

Ordering code: B88069X1493****

Date: 2018-08-24

Version: 04

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Surge arrester B88069X1493****

2-electrode arrester EM3600XS

Features

- Very small size
- Extremely fast response time
- Stable performance over service life
- Extremely low capacitance
- High insulation resistance
- RoHS-compatible

Applications

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

Electrical specifications

				1
DC spark-over voltage	1) 2)		3600	V
Tolerance			±20	%
Min.			2880	V
Max.			4320	V
Impulse spark-over voltage				
at 100 V/µs - for 99% of measured values			< 4350	V
	- typical values of dis	tribution	< 4150	V
at 1 kV/µs	- for 99% of measured values		< 4500	V
•	 typical values of distribution 		< 4300	V
at 5 kV/µs - for 99% of m		ed values	< 5000	V
·	- typical values of dis	tribution	< 4500	V
Service life				
10 operations	3	50 Hz; 1 s	1	Α
1000 operations		8/20 µs	100	Α
10 operations [5× (+) & 5× (-)]		8/20 µs	3	kA
1 operation		8/20 µs	5	kA
Insulation resistance at 100 V _{DC}			> 1	$G\Omega$
Capacitance at 1 MHz			< 1	pF
Arc voltage at 1 A			~ 35	V
Glow to arc transition current			< 0.3	Α
Glow voltage at 0.1 A			~ 170	V
AC withstand voltage (3 sec) 3)			1800	V
DC withstand voltage (3 sec) 3)			2300	V
Weight			~ 1	g
Operation temperature			-40 +125	°C
Recommended storage	e			
- temperature			+5 +35	°C
- humidity			45 80	%
- period			≤ 2	years
Climatic category (IEC 60068-1)			40/125/21	
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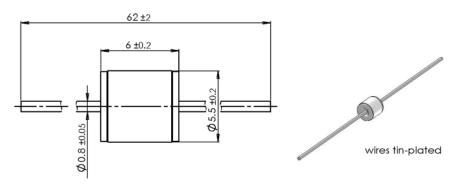
2-electrode arrester EM3600XS

Marking, red positive	EPCOS EM 3600 YY O EM - Series 3600 - Nominal voltage YY - Year of production O - Non radioactive
Certifications	UL 1449 (E319264) CN us

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

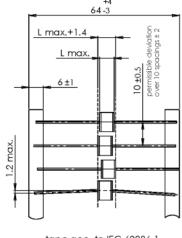
Terms and current waveforms in accordance with: ITU-T Rec. K. 12; IEC 61643-21; 61643-311.

Dimensional drawing in mm

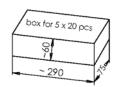


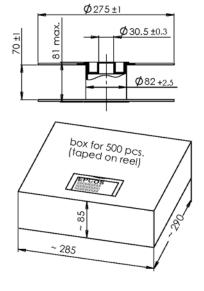
Ordering code and packing advice

B88069X1493**S102** = 100 pcs. on 5 taped stripes B88069X1493**T502** = 500 pcs. on tape & reel



tape acc. to IEC 60286-1





PPD AB PD / PPD AB PM Version: 04 / 2018-08-24

²⁾ In ionized mode

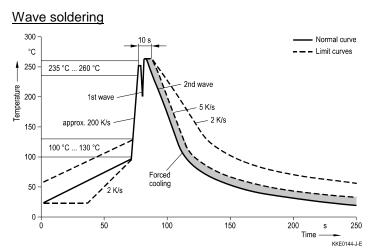
Test conditions in acc. with MIL-STD-202G at 25 ±5 °C, relative humidity of ≤ 55 % and atmospheric pressure 860 ... 1100mbar.



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Soldering parameter



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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