

Surge arrester

2-electrode arrester

Series/Type: Ordering code:	A91-H75SE B88069X3443****	
Date:	2019-8-21	
Version:	04	

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A91-H75SE

B88069X3443****

Surge arrester

2-electrode arrester

Features

- Fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Operation up to 5500 m above sea level
- >3 mm gap distance to fulfill IEC 60950-1 and CCC/GB 4943.1-2011
- RoHS-compatible

Electrical specifications

Applications

- Consumer electronics
- Power supply
- LED street lighting

DC spark-over voltage ^{1) 2)}		7500	V
Tolerance		±20	%
Min.		6000	V
Max.		9000	V
Impulse spark-over voltage			
at 10 kV/µs - for 99% of measured values		< 10500	V
- typical values of	distribution	< 9500	V
Service life			
300 operations	8/20 µs	100	A
10 operations [5x (+) & 5x (-)]	8/20 µs	5	kA
1 operation	8/20 µs	10	kA
Insulation resistance at 1000 V_{DC}		> 1	GΩ
Capacitance at 1 MHz		< 1.5	pF
Arc voltage at 1 A		~ 90	V
Glow to arc transition current		< 0.5	А
Glow voltage at 0.1 A		~ 400	V
AC withstand voltage (1 min) ³⁾		3400	V
Weight		~ 2.2	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, green positive		EPCOS 7500 YY E7500- Nominal voltageYY- Year of productionE- Extended gap	
Certifications		UL 1449 (E319264)	c SV ° us

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

²⁾ In ionized mode

³⁾ Test conditions in acc. with MIL-STD-202G at 25 ±5 °C, relative humidity of ≤ 55% and atmospheric pressure 860 ... 1100mbar.

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

PPD AB PD / PPD AB PM



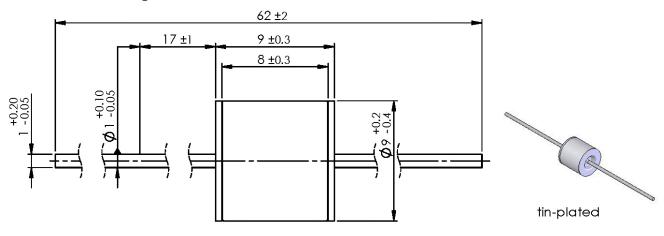
A91-H75SE

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Surge arrester

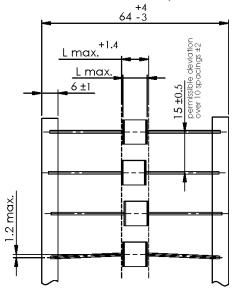
2-electrode arrester

Dimensional drawing in mm

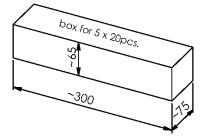


Ordering code and packing advice

B88069X3443**S102** = 100 pcs. on 5 taped stripes

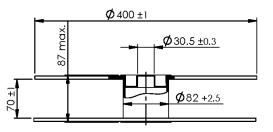


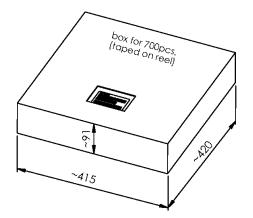
tape acc. to IEC 60286-1



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B88069X3443**T702** = 700 pcs. on tape & reel





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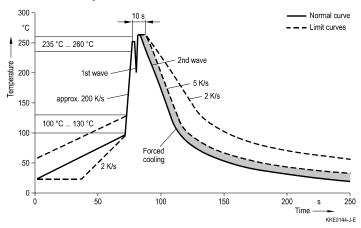
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Soldering parameter

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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