

Surge arrester

2-electrode arrester

Series/Type: **EM300X**

Ordering code: B88069X0800****

2019-07-18 Date:

Version: 09

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2-electrode arrester EM300X

Features

- Small size
- Fast response time
- High current handling capability
- Stable performance over service life
- Low capacitance and insertion loss
- High insulation resistance
- RoHS-compatible

Applications

- Power supplies
- Antenna protection
- Air condition
- Modem
- Consumer electronics
- Dataline protection

Electrical specifications

Electrical Specification	7115			
DC spark-over voltage Tolerance Min. Max.	1) 2)	300 -10 +20 270 360	V % V V	
Impulse spark-over vo	Itage			
at 100 V/μs	- for 99% of measured values	< 700	V	
	 typical values of distribution 	< 600	V	
at 1 kV/μs	for 99% of measured valuestypical values of distribution	< 800 < 700	V	
Service life				
10 operations	50 Hz, 1 s	2.5	Α	
1 operations	50 Hz, 0.18 s (9 cycles)	5	Α	
10 operations	8/20 μs	2.5	kA	
1 operation	8/20 μs	5	kA	
1 operation	10/350 μs	0.5	kA	
Insulation resistance a	> 1	$G\Omega$		
Capacitance at 1 MHz		< 1	pF	
Arc voltage at 1 A		~ 10	V	
Glow to arc transition of	< 0.3	Α		
Glow voltage		~ 60	V	
Weight		~ 1	g	
Operation and storage	-40 +125	°C		
Climatic category (IEC	40/125/21			
Marking, red positive		EM - Series 300 - Nominal voltage YY - Year of product	300 - Nominal voltage YY - Year of production	
Certification	UL 497B (E163070)	<i>71</i> 2°		
Name of the Control o				

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

Terms in accordance with ITU-T Rec. K. 12 and IEC 61643-311.

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²⁾ In ionized mode

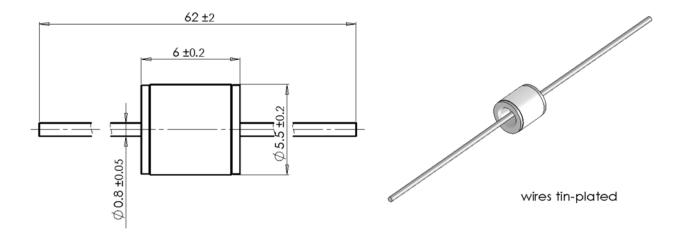


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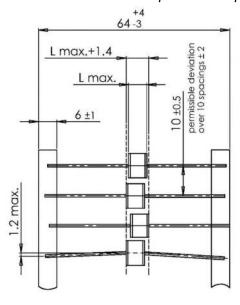
EM300X

Dimensional drawing in mm

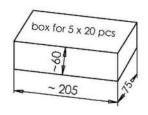


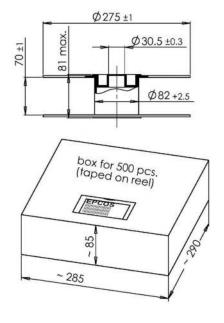
Ordering codes and packing advices

B88069X0800**S102** = 100 pcs. on 5 taped stripes B88069X0800**T502** = 500 pcs. on tape and reel



tape acc. to IEC 60286-1





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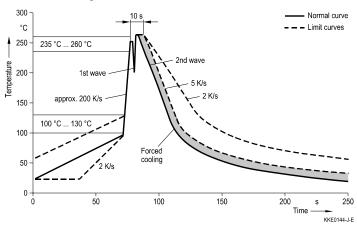


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Soldering parameter

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.
- 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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