

# Surge arrester

2-electrode arrester

Series/Type: EM230XHC Ordering code: B88069X4303\*\*\*\*

Date: 2019-07-18

Version: 02

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Surge arrester B88069X4303\*\*\*\*

# 2-electrode arrester EM230XHC

#### **Features**

- Small size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

# **Applications**

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

## **Electrical specifications**

Electrical specificati	0110			
DC spark-over voltage	<b>9</b> <sup>1) 2)</sup>		230	V
Tolerance			±20	%
Min.			184	V
Max.			276	V
Impulse spark-over vo	ltage			
at 100 V/µs - for 99% of measured values		values	< 600	V
	<ul> <li>typical values of distr</li> </ul>	ibution	< 550	V
at 1 kV/µs - for 99% of measured values		values	< 750	V
<ul> <li>typical values of distribution</li> </ul>		ibution	< 700	V
Service life				
10 operations	50 Hz, 1	S	10	Α
1 operation	50 Hz, 0.	18 s (9 cycles)	20	Α
10 operations	8/20 μs		10	kA
10 operations	10/350 με	3	1	kA
300 operations	10/1000 լ	ıs	100	Α
Insulation resistance at 100 $V_{\text{DC}}$			> 1	GΩ
Capacitance at 1 MHz			< 1	рF
Arc voltage at 1 A			~ 10	٧
Glow to arc transition current			< 0.1	Α
Glow voltage			~ 50	V
Weight			~ 1	g
Operation and storage temperature			-40 +125	°C
Climatic category (IEC 60068-1)			40/125/21	
Marking, blue positive			EPCOS EM 230 YY O  EM - Series 230 - Nominal voltage YY - Year of production O - Non radioactive	

<sup>1)</sup> 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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<sup>2)</sup> In ionized mode

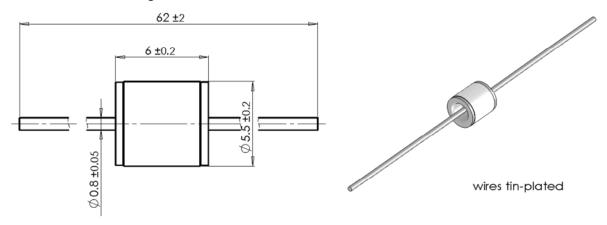


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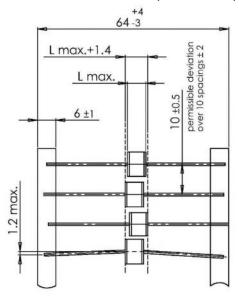
EM230XHC

# Dimensional drawing in mm

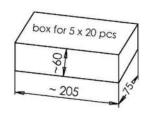


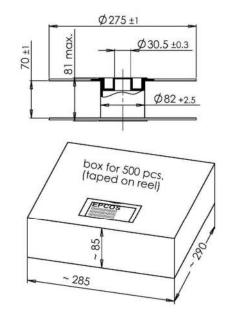
# Ordering codes and packing advices

B88069X4303**S102** = 100 pcs. on 5 taped stripes B88069X4303**T502** = 500 pcs. on tape and reel



tape acc. to IEC 60286-1





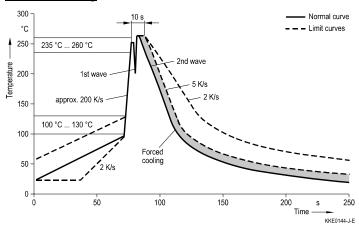


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#### 2-electrode arrester EM230XHC

#### 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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# Important notes

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