

# Surge arrester

2-electrode arrester

Series/Type: **EF270X** 

Ordering code: B88069X4131\*\*\*\*

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Version: 07

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Surge arrester B88069X4131\*\*\*\*

## 2-electrode arrester EF270X

## **Features**

- Standard size
- High follow current capability
- Very fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

## **Applications**

- Application with high follow current
- Power supply

## **Electrical specifications**

Electrical specification			1
DC spark-over voltage	<sup>1) 2)</sup>	270	V
Tolerance		−15 <b>+</b> 25	%
Min.		230	V
Max.		338	V
Impulse spark-over vo	ltage		
at 100 V/µs	- for 99% of measured values	< 500	V
	<ul> <li>typical values of distribution</li> </ul>	< 450	V
at 1 kV/µs	- for 99% of measured values	< 550	V
	<ul> <li>typical values of distribution</li> </ul>	< 500	V
Service life			
10 operations	50 Hz, 1 s	5	Α
1 operation	50 Hz, 0.18 s (9 cycles)	65	Α
10 operations	8/20 μs	5	kA
1 operation	8/20 µs	10	kA
Max. follow current du	ring one voltage half cycle at 50 Hz	200	А
Insulation resistance a	at 100 V <sub>DC</sub>	> 10	$G\Omega$
Capacitance at 1 MHz	:	< 1.5	pF
Arc voltage at 1 A		~ 16	V
Glow to arc transition	current	< 0.3	Α
Glow voltage		~ 140	V
Weight		~ 1.5	g
Operation and storage	e temperature	-40 <b>+</b> 125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red positive		EPCOS EF 270 YY O  EF - Series  270 - Nominal voltage  YY - Year of production  O - Non radioactive	
Certification		UL 1449 (E319264)	c <b>FU</b> °us

<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.

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

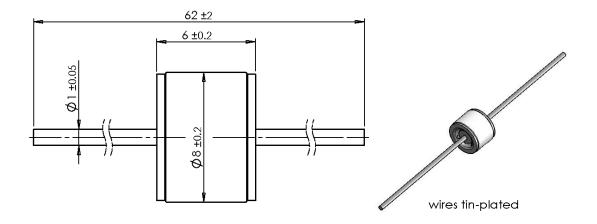


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**EF270X** 

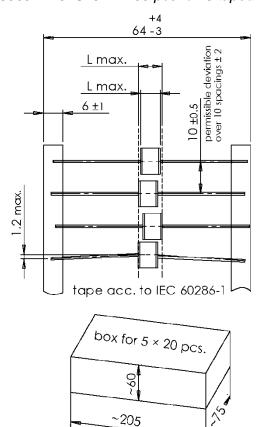
# Dimensional drawing in mm

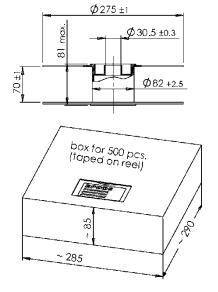


## Ordering codes and packing advices

B88069X4131**\$102** = 100 pcs. on 5 taped stripes

B88069X4131**T502** = 500 pcs. on tape and reel





PPD AB PD / PPD AB PM

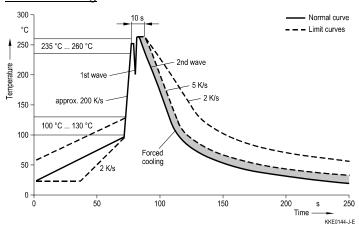


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#### 2-electrode arrester EF270X

## 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.
- The follow current must be limited (see values on page 2) so that the arrester can be properly extinguished when the surge has decayed. The arrester might otherwise heat up and ignite adjacent components.
- 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.
- 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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