

Surge arrester

2-electrode arrester

Series/Type: EF270X

Ordering code: B88069X4131****

Version/Date: Issue 04 / 2013-09-16

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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

DC spark-over voltage 1) 2)		230 338	V
Impulse spark-over ve	oltage		
at 100 V/µs	for 99% of measured valuestypical values of distribution	< 500 < 450	V
at 1 kV/μs	for 99% of measured valuestypical values of distribution	< 550 < 500	V
Service life			
10 operations	s 50 Hz, 1 s	5	Α
1 operation	50 Hz, 0.18 s (9 cycles)	65	Α
10 operation	s 8/20 µs	5	kA
1 operation	8/20 µs	10	kA
Max. follow current during one voltage half cycle at 50 Hz 3)		200	Α
Insulation resistance at 100 V _{DC}		> 10	$G\Omega$
Capacitance at 1 MHz		< 1.5	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 22 < 0.5 ~ 140	V A V
Weight		~ 1.5	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, red positive		EPCOSEF 270 YY O EF - Series 270 - Nominal voltage YY - Year of production O - Non radioactive	

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

Terminology in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

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²⁾ In ionized mode

³⁾ Follow current has to be limited by an appropriate varistor in series.

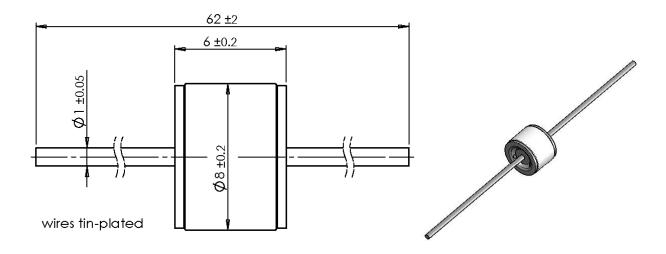


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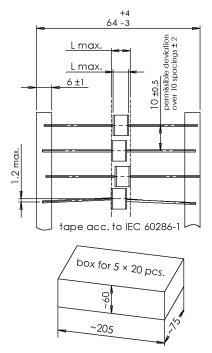
EF270X

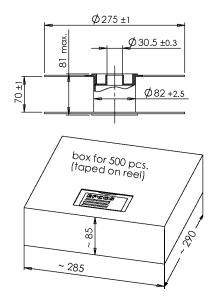
Dimensional drawing in mm



Ordering codes and packing advices

B88069X4131**S102** = 100 pcs. on 5 taped stripes B88069X4131**T502** = 500 pcs. on tape and reel





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Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- The follow current must be limited 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 case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the lead contacts may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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The following applies to all products named in this publication:

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