

# Surge arrester

2-electrode arrester

Series/Type: **EF800XB3** 

Ordering code: B88069X2113B352

2019-07-11 Date:

Version: 03

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Surge arrester B88069X2113B352

# 2-electrode arrester EF800XB3

#### **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
- Consumer electronics
- AC power line devices

# **Electrical specifications**

		T	
DC spark-over voltage 1) 2)		800	V
Tolerance		–15 <b>+</b> 25	%
Min.		680	V
Max.		1000	V
Impulse spark-over voltage			
at 100 V/µs - for 99% of measured values - typical values of distribution		< 1200	V
		< 1000	V
• • • • • • • • • • • • • • • • • • •	easured values	< 1300	V
- typical values	s of distribution	< 1100	V
Service life			
10 operations	50 Hz, 1 s	5	Α
1 operation	50 Hz, 0.18 s (9 cycles)	65	Α
10 operations [5× (+) & 5× (-)]	8/20 μs <sup>3)</sup>	10	kA
1 operation	8/20 μs	12	kA
1 operation	10/350µs	3	kA
Max. follow current during one voltage half cycle at 50 Hz 4)		200	А
Insulation resistance at 100 V <sub>DC</sub>		> 10	$G\Omega$
Capacitance at 1 MHz		< 1.5	pF
Arc voltage at 1 A		~ 25	V
Glow to arc transition current		< 0.3	Α
Glow voltage		~ 160	V
Weight		~ 1.5	g
Operation and storage temperature		-40 <b>+</b> 125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red positive		EPCOS EF 800 YY O  EF - Series  800 - Nominal voltage  YY - Year of production  O - Non radioactive	
Certification		UL 1449 (E319264)	c <b>FL</b> ° us
		L.	

Remarks on next page



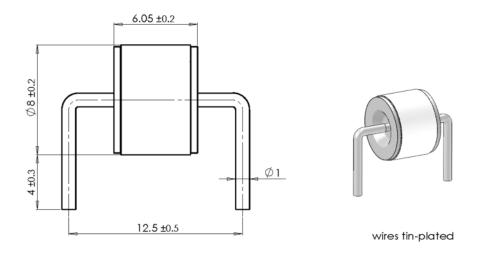
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# 2-electrode arrester EF800XB3

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) After service life: DC spark-over voltage < 1500 V
- Follow current has to be limited by an appropriate varistor in series.

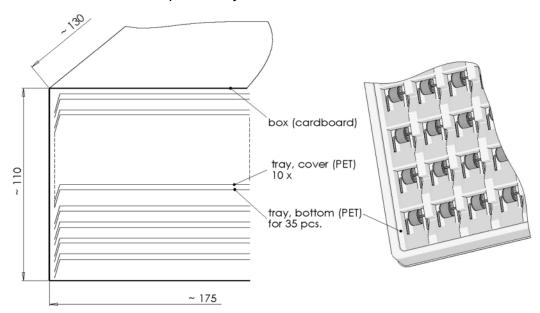
Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

# Dimensional drawing in mm



# Ordering codes and packing advices

B88069X2113**B352** = 350 pcs. in trays



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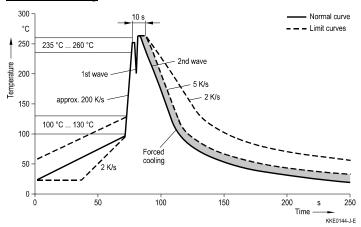


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#### 2-electrode arrester EF800XB3

#### 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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