



Surge arrester

2-electrode arrester

Series/Type: EF1500XN
Ordering code: B88069X2163C103
Version/Date: Issue 02 / 2015-02-11

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Features

- 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

DC spark-over voltage ^{1) 2)}	1500	V
Tolerance	±20	%
Min.	1200	V
Max.	1800	V
Impulse spark-over voltage		
at 100 V/μs - for 99% of measured values	< 1800	V
- typical values of distribution	< 1700	V
at 1 kV/μs - for 99% of measured values	< 2000	V
- typical values of distribution	< 1800	V
Service life		
10 operations 50 Hz, 1 s	5	A
1 operation 50 Hz, 0.18 s (9 cycles)	35	A
10 operations 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	A
Insulation resistance at 100 V _{DC}	> 10	GΩ
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A	~ 30	V
Glow to arc transition current	< 0.3	A
Glow voltage	~ 90	V
Weight	~ 1.5	g
Operation and storage temperature	-40 ... +125	°C
Climatic category (IEC 60068-1)	40/ 125/ 21	
Marking, red positive	EPCOS EF 1500 YY O EF - Series 1500 - Nominal voltage YY - Year of production O - Non radioactive	
Certification	UL 1449 (E319264)	

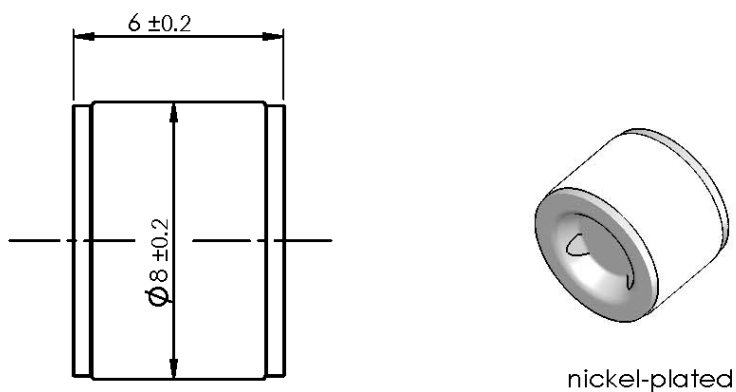
¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode

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

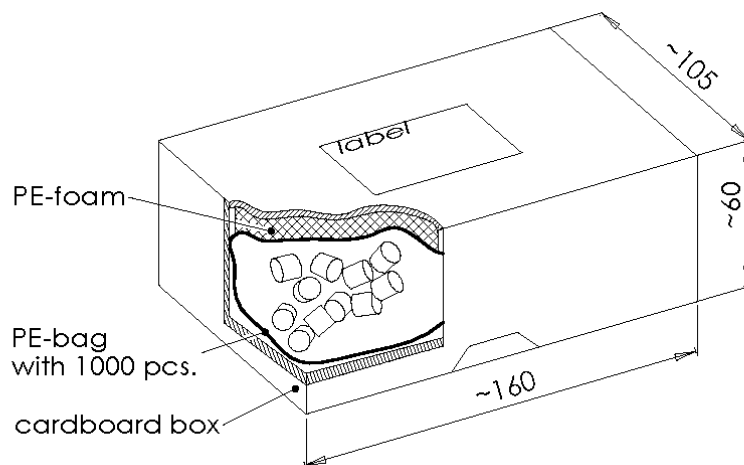
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm



Ordering codes and packing advices

B88069X2163C103 = 1000 pcs. on container



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 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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