



2-electrode arrester

Series/Type: EF800X
Ordering code: B88069X2641xxxx ^{a)}
Version/Date: Issue 03 / 2008-01-18

Features	Applications
<ul style="list-style-type: none"> ▪ Standard size ▪ High follow current capability ▪ Very fast response time ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ RoHS-compatible 	<ul style="list-style-type: none"> ▪ Application with high follow current ▪ Power supply

Electrical specifications

DC spark-over voltage ^{1) 2)}	680 ... 1000	V
Impulse spark-over voltage		
at 100 V/ μ s	- for 99 % of measured values - typical values of distribution	< 1200 < 1000
at 1 kV/ μ s	- for 99 % of measured values - typical values of distribution	< 1300 < 1100
Service life		
10 operations	50 Hz, 1 s	5
1 operation	50 Hz, 0.18 s (9 cycles)	65
10 operations	8/20 μ s	5
1 operation	8/20 μ s	10
Max. follow current during one voltage half cycle at 50 Hz	200	A
Insulation resistance at 100 V _{dc}	> 10	G Ω
Capacitance at 1 MHz	< 1.5	pF
Arc voltage at 1 A	~ 22	V
Glow to arc transition current	< 0.5	A
Glow voltage	~ 140	V
Weight	~ 1.5	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red positive	EPCOSEF 800 YY O EF - Series 800 - Nominal voltage YY - Year of production O - Non radioactive	

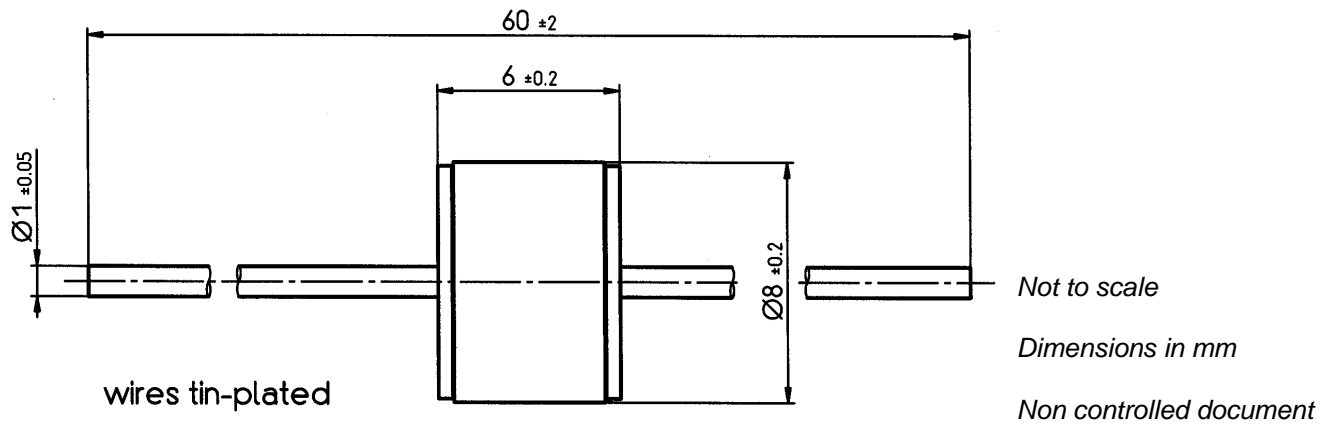
^{a)} xxxx = S102 (100 pcs on 5 stripes)
= T502 (500 pcs on tape and reel)

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

²⁾ In ionized mode

Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

Dimensional drawing



Cautions and warnings

- Surge arrester must be selected so that the maximum expected follow current can be quenched.
- 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 must not be operated directly in power supply networks.
- 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 head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

Important notes

The following applies to all products named in this publication:

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