Surge arrester

3-electrode arrester

Series/Type: **EZ3-A250XF1**
Ordering code: **B88069X4521B502**
Version/Date: Issue 02 / 2007-09-06

EPCOS AG is a TDK Group Company.

Surge arrester — B88069X4521B502

3-electrode arrester — EZ3-A250XF1

Features	Applications
▪ Extremely small size ▪ Fast response time ▪ High current rating ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ Reliable failsafe device ▪ RoHS-compatible	▪ Branch exchange (MDF) ▪ Line protection ▪ Station protection

Electrical specifications

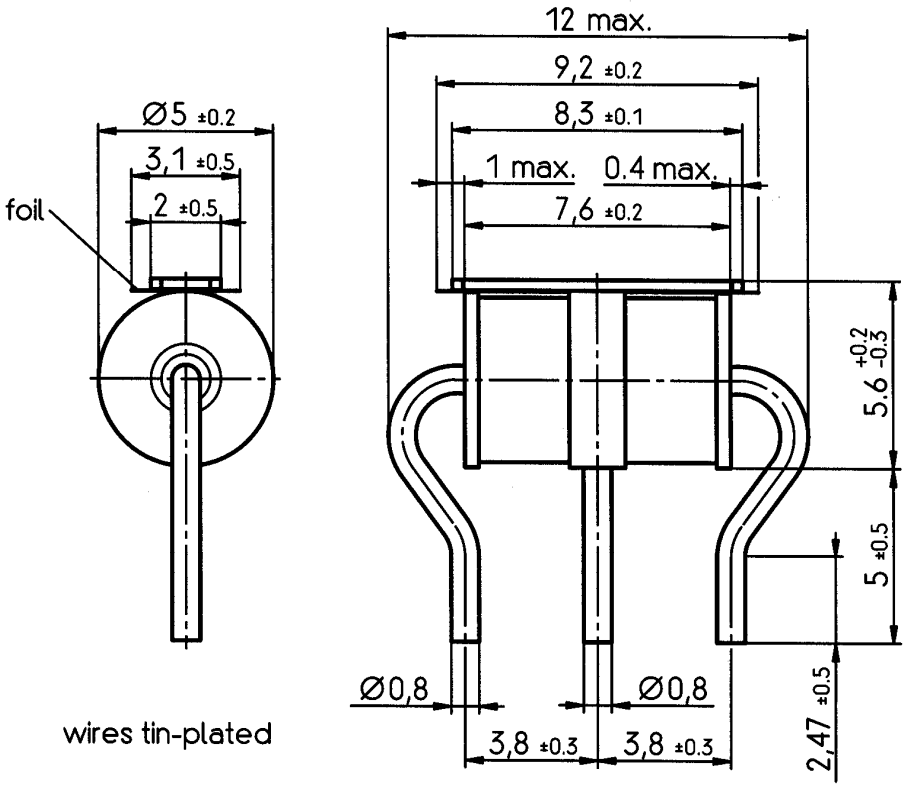
DC spark-over voltage [1) 2) 4)]		250 ± 20	V %
Impulse spark-over voltage [4)]			
at 100 V/µs	- for 99 % of measured values	< 600	V
	- typical values of distribution	< 450	V
at 1 kV/µs	- for 99 % of measured values	< 750	V
	- typical values of distribution	< 600	V
Service life			
10 operations	50 Hz, 1 s [5)]	5	A
1 operation	50 Hz, 0.18 s [5)]	5	A
10 operations [5x (+) & 5x (–)]	8/20 µs [5)]	5	kA
1 operation	10/350 µs [5)]	1	kA
300 operations (alternating polarity)	10/1000 µs [5)]	200	A
Insulation resistance at 100 V_{dc} [4)]		> 1	GΩ
Capacitance at 1 MHz [4)]		< 1.5	pF
DC holdover voltage [3)] at 135 V_{dc} / 1300 Ω		< 150	ms
Transverse delay time [3)]		< 0.2	µs
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 10 ~ 1 ~ 80	V A V
Weight		~ 1.0	g
Storage temperature		-40 ... +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		**EPCOS** **EZ 250 YY O** EZ - Series 250 - Nominal voltage YY - Year of production O - Non radioactive	

1) At delivery AQL 0.65 level II, DIN ISO 2859
2) In ionized mode
3) Test according to ITU-T Rec. K.12
4) Tip or ring electrode to center electrode
5) Total current through center electrode, half value through tip respectively ring electrode.

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

Arrester fail safe works at temperatures > 260 °C. The arrester has to be fixed mechanically, if the arrester is contacted by soldering and if the solder temperature is less than 260 °C.

Dimensional Drawing



Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- 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.
- Surge arrester with triggered short-circuit mechanism must not be re-used.

Important notes

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