



Surge arrester

3-electrode arrester

Series/Type:	T97A-A230X1F1
Ordering code:	B88069X1743B502
Version/Date:	Issue 01 / 2012-06-08

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Features

- Small size
- Fast response time
- High current rating
- Stable performance over life
- Low capacitance
- High insulation resistance
- Reliable failsafe advice
- RoHS-compatible

Applications

- Branch exchange (MDF)
- Line protection
- Station protection

Electrical specifications

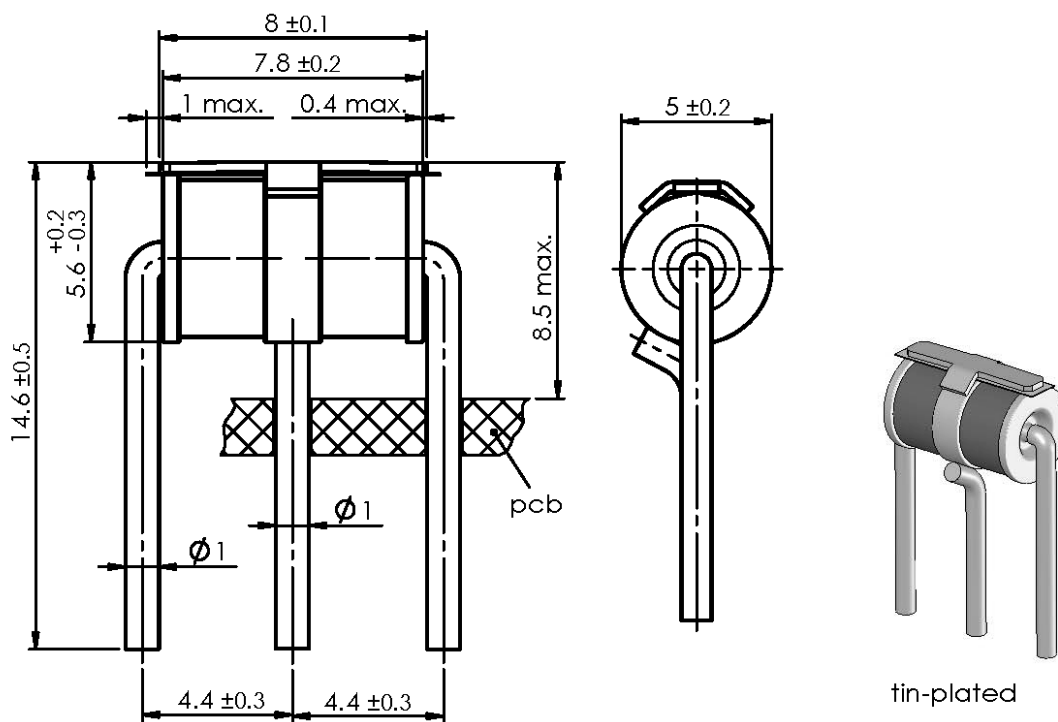
DC spark-over voltage ^{1) 2) 3)}		230 ± 20	V %
Impulse spark-over voltage ³⁾			
at 100 V/μs	- for 99% of measured values - typical values of distribution	< 600 < 550	V V
at 1 kV/μs	- for 99% of measured values - typical values of distribution	< 700 < 650	V V
Service life			
10 operations	50 Hz; 1 s ⁴⁾	10	A _{RMS}
1 operation	50 Hz; 0.18 s (9 cycl.) ⁴⁾	30	A _{RMS}
10 operations [5x (+) & 5x (-)]	8/20 μs ⁴⁾	10	kA
300 operations	10/1000 μs ⁴⁾	200	A
Insulation resistance at 100 V _{DC} ³⁾		> 1	GΩ
Capacitance at 1 MHz ³⁾		< 1.5	pF
Transverse delay time ⁵⁾		< 0.2	μs
DC holdover voltage			
at 135 V _{DC} , 1300 Ω (test 3) ⁵⁾		< 150	ms
Arc voltage at 1 A		~ 15	V
Glow to arc transition current		~ 0.5	A
Glow voltage		~ 60	V
Weight		~ 1.4	g
Storage temperature		-40 ... +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS 230 YY O 230 - Nominal voltage YY - Year of production O - Non radioactive	

Remarks on next page

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

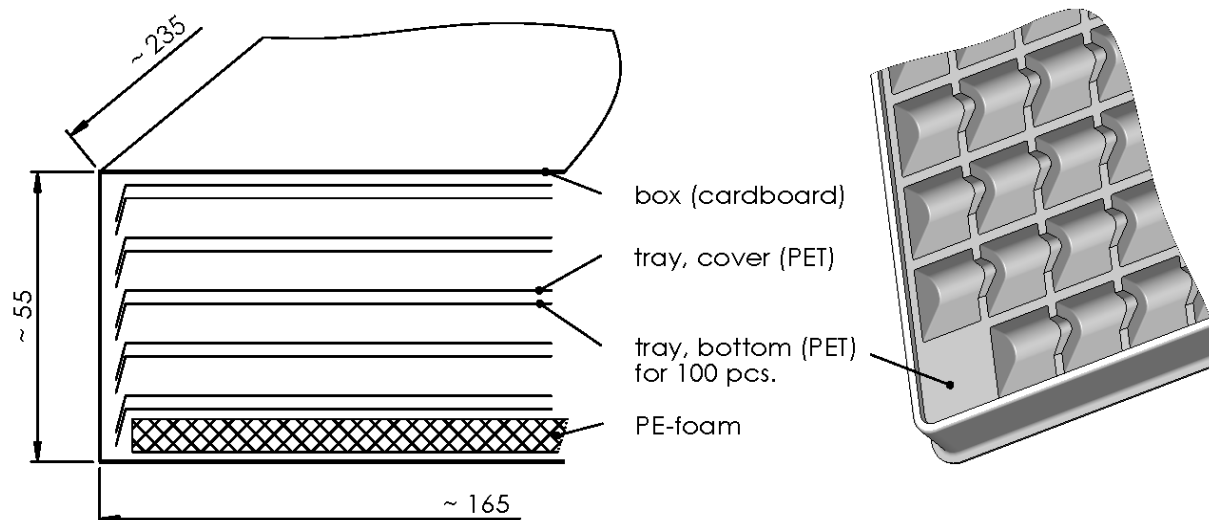
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

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 in mm


Ordering code and packing advice

B88069X1743B502 = 500 pcs. on trays


Cautions and warnings

- The short-circuit spring does not trigger until 260 °C is reached depending on the material. Care must be taken to limit the thermal radiation onto adjacent parts to safe values.
- Depending on the incorporation position, the surge arrester may have to be additionally secured by mechanical means.
- 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.

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