



Surge arrester

3-electrode arrester

Series/Type: T33-A230X
Ordering code: B88069X9800B502
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T33-A230X

Features	Applications
- Very small size - Extremely fast response time - High current rating - Stable performance over life - Extremely low capacitance - High insulation resistance - RoHS-compatible	- Line protection - Station protection - Base stations

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	< 400	V
- typical values of distribution	< 350	V
at 1 kV/μs - for 99% of measured values	< 450	V
- typical values of distribution	< 420	V
Service life		
10 operations 50 Hz; 1 s ⁴⁾	10	A
1 operation 50 Hz; 0.18 s (9 cycles) ⁴⁾	30	A
10 operations [5× (+) & 5× (-)] 8/20 μs ⁴⁾	10	kA
1 operation 8/20 μs ⁴⁾	10	kA
1 operation 10/350 μs ⁴⁾	2	kA
Insulation resistance at 100 V _{DC} ³⁾	> 10	GΩ
Capacitance at 1 MHz ³⁾	< 1.5	pF
Transverse delay time ⁵⁾	< 0.2	μs
Arc voltage at 1 A	~ 30	V
Glow to arc transition current	~ 1	A
Glow voltage	~ 200	V
Weight	~ 1.4	g
Operation and 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	

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

²⁾ In ionized mode

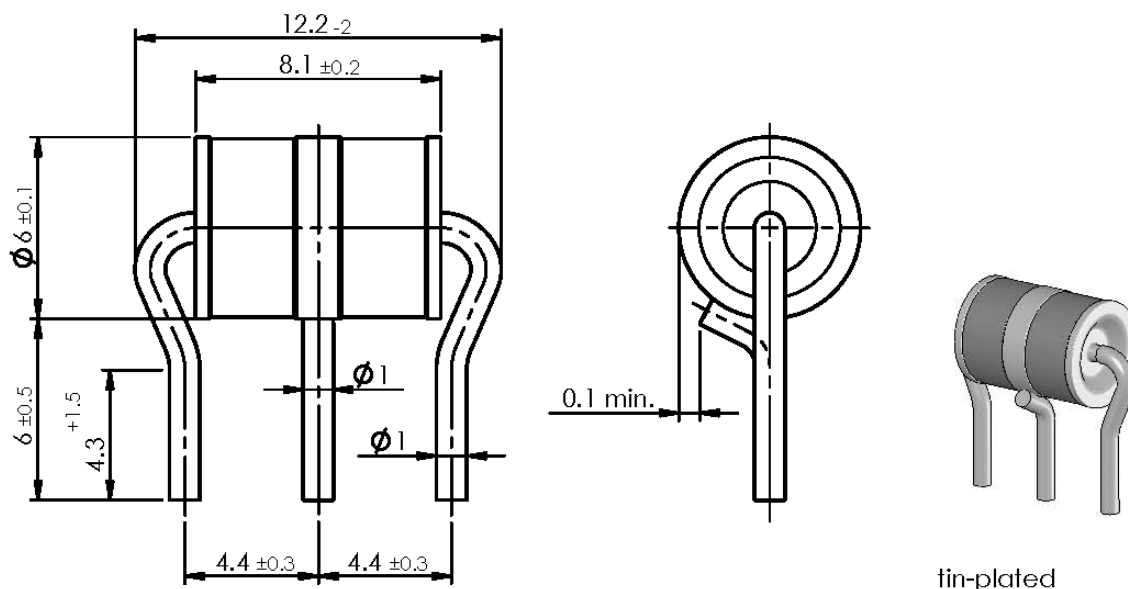
⁴⁾ Tip or ring electrode to center electrode

⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

³⁾ Test according to ITU-T Rec. K.12

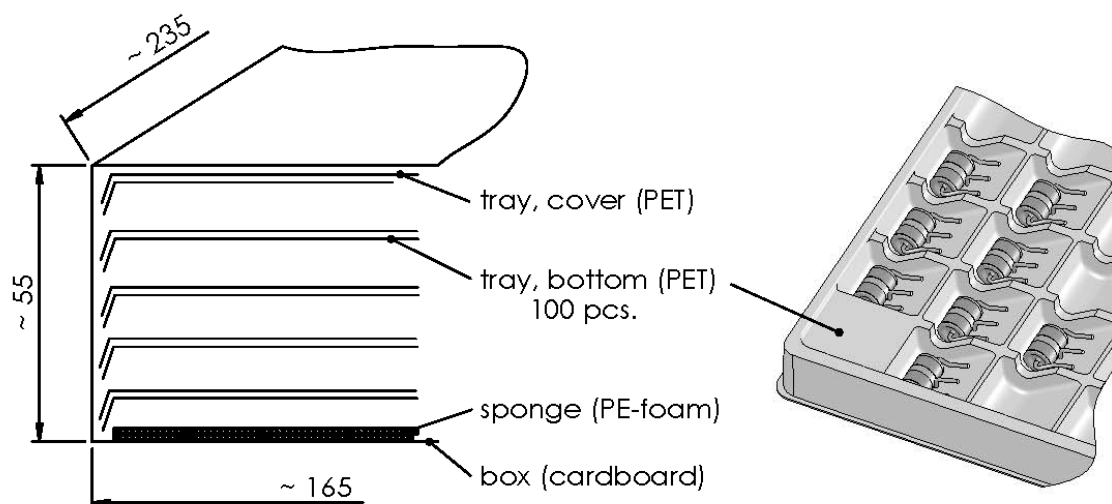
Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm



Ordering code and packing advice

B88069X9800B502 = 500 pcs. on trays



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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
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We also **reserve the right to discontinue production and delivery of products**. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

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