

Surge arrester

3-electrode arrester

Series/Type: T33-A230X Ordering code: B88069X98

Ordering code: B88069X9800B502

Version/Date: Issue 04 / 2007-03-29



Surge arrester B88069X9800B502

3-electrode arrester T33-A230X

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

Electrical specifications

DC spark-over voltage ^{1) 2) 4)} Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		230 ± 20 < 400 < 350	V % V
Service life 10 operations 1 operation 10 operations [5x (+) 1 operation 1 operation Insulation resistance at 100 Capacitance at 1 MHz 4) Transverse delay time 3) Arc voltage at 1 A Glow to arc transition current Glow voltage	8/20 μs ⁵⁾ 10/350 μs ⁵⁾ V _{dc} ⁴⁾	10 30 10 10 2 > 10 < 1.5 < 0.2 ~ 30 ~ 1 ~ 200	A A kA kA kA GΩ pF µs V A
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	

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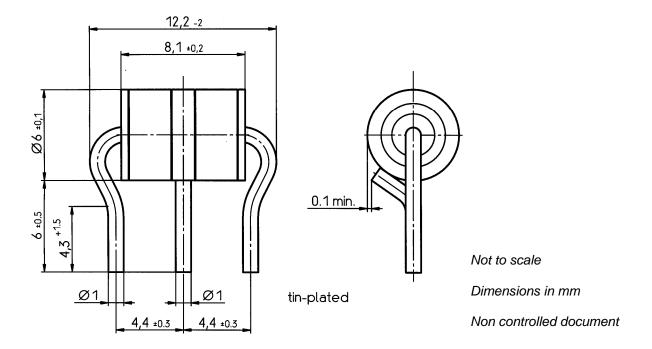
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring electrode.

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

Dimensional drawing



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.

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