

Surge arrester

3-electrode arrester

 Series/Type:
 T33-A250XF1

 Ordering code:
 B88069X3971B502

 Version/Date:
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3-electrode arrester T33-A250XF1

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

Electrical specifications

DC spark-over voltage (line to ground) 1) 2)) 4)	200 300	V
DC spark-over voltage (line to line) 1) 2) 6)	200 450	V
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 500 < 400 < 550 < 450	V V V
Nominal impulse discharge current (wave 8/20 µs) 5) Single impulse discharge current (wave 8/20 µs) 5)	10	kA kA
Nominal alternating discharge current (50 Hz, 1 s) 5)	5	Α
Insulation resistance at 100 V _{dc} ⁴⁾	> 10	GΩ
Capacitance at 1 MHz ⁴⁾	< 1.5	pF
Transverse delay time 3)	< 0.2	μs
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 30 ~ 1 ~ 200	V A V
Weight	~ 1.4	g
Storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	EPCOS 250 YY O 250 - Nominal voltage YY - Year of production O - Non radioactive	

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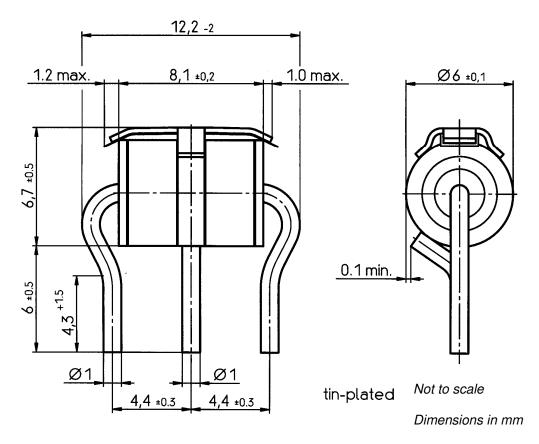
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.
- Tip or ring electrode (L1) to tip or ring electrode (L2)

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



Non controlled document

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.
- 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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