

Surge arrester

3-electrode arrester

Series/Type: T83-A250X

 Ordering code:
 B88069X8340B502

 Version/Date:
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Features	Applications
 Standard size 	Line protection
 Fast response time 	Station protection
 Very high current rating 	 Base stations
 Stable performance over life 	
 Very low capacitance 	
 High insulation resistance 	
 RoHS-compatible 	

Electrical specifications

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 - typical values of distribution	< 500 < 450	V	
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 650 < 600	V V	
Nominal impulse discharge current (wave 8/20 µs) 5) Single impulse discharge current (wave 8/20 µs) 5)	10 15	kA kA	
Nominal alternating discharge current (50 Hz, 1 s) 5) Alternating discharge current (50 Hz, 9 cycles) 5)	10 40	A A	
Insulation resistance at 100 V _{dc} ⁴⁾	> 10	$G\Omega$	
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	~ 35 ~ 1 ~ 200	V A V	
Weight	~ 2	g	
Operation and storage temperature	-40 + 90	°C	
Climatic category (IEC 60068-1)	40/ 90/ 21	40/ 90/ 21	
Marking, red negative EPCOS 250 YY O 250 - Nominal voltage YY - Year of production O - Non radioactive		ion	

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

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

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²⁾ In ionized mode

Test according to ITU-T Rec. K.12

Tip or ring electrode to center electrode

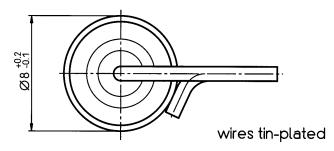
Total current through center electrode, half value through tip respectively ring electrode.

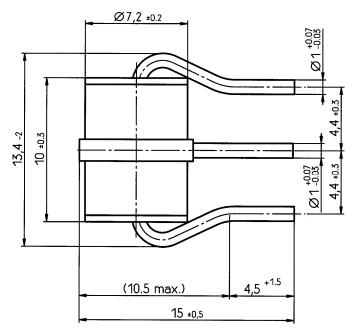


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Dimensional drawing





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

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