

Surge arrester

3-electrode arrester

 Series/Type:
 T83-A250XF4

 Ordering code:
 B88069X8990B502

 Version/Date:
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Features	Applications
 Standard size 	 Branch exchange (MDF)
 Fast response time 	 Line protection
 High current rating 	 Station protection
 Stable performance over life 	
 Very low capacitance 	
 High insulation resistance 	
 Reliable failsafe device 	
RoHS-compatible	

Electrical specifications

DC spark-over voltage ^{1) 2) 4)}		250 ±20	V %
Impulse spark-over v at 100 V/µs	voltage ⁴⁾ - for 99 % of measured values - typical values of distribution	< 500 < 450	V V
at 1 kV/µs	 for 99 % of measured values typical values of distribution 	< 650 < 600	V V
Nominal impulse discharge current (wave $8/20 \ \mu s$) ⁵⁾ Single impulse discharge current (wave $8/20 \ \mu s$) 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	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		~ 35 < 1 ~ 200	V A V
Weight		~ 2.2	g
Storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, red negativ	e	EPCOS 250 YY O 250 - Nominal voltage YY - Year of production O - Non radioactive	

⇔TDK

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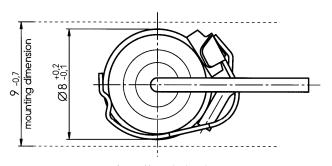
3-electrode arrester

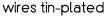
B88069X8990B502 T83-A250XF4

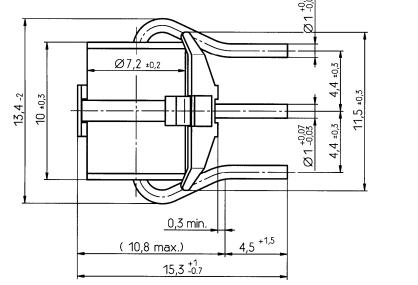
- ¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Test according to ITU-T Rec. K.12
- ⁴⁾ Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

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

Dimensional Drawing







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

KB AB E / KB AB PM

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