

Surge arrester

3-electrode arrester

 Series/Type:
 T23-A230XF1

 Ordering code:
 B88069X8680B502

Version/Date: Issue 05 / 2007-02-22



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3-electrode arrester T23-A230XF1

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)		230 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 400 < 350	V
• • • • • • • • • • • • • • • • • • •	for 99 % of measured valuestypical values of distribution		V V
Service life 10 operations 1 operation	50 Hz, 1 s ⁵⁾ 50 Hz, 0.18 s (9 cycles) ⁵⁾	10 50	A A
10 operations [5x (+) & 5x (-)] 1 operation 1 operation 300 operations	8/20 μs ⁵⁾ 8/20 μs ⁵⁾ 10/350 μs ⁵⁾ 10/1000 μs ⁵⁾	20 25 5 200	kA kA kA 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 Weight		~ 30 ~ 1 ~ 200 ~ 2.2	V A V
Storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative EPCOS 230 YY O 230 - Nominal volta YY - Year of produ O - Non radioacti		ction	

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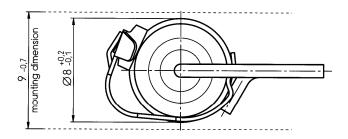
3-electrode arrester T23-A230XF1

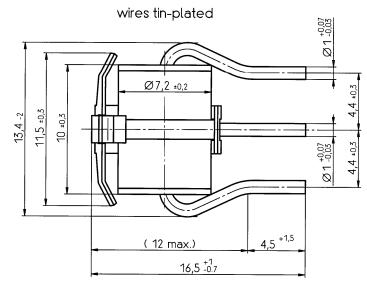
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring electrode.

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

The arrester failsafe mechanism contains a solder pellet with a melting temperature between 193 and 203 °C.

Dimensional drawing





Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- The short-circuit spring does not trigger until 180 °C is reached depending on the material. Care
 must be taken to limit the thermal radiation onto adjacent parts to safe values.
- Depending on the incorporation position, the surge arrester may have to be additionally secured by mechanical means.
- 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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