

Surge arrester

3-electrode arrester

 Series/Type:
 T83-A230XF1

 Ordering code:
 B88069X9420B502

 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	e ^{1) 2) 4)}		230 ± 20	V %
Impulse spark-over vo			. 450	
at 100 V/µs	 for 99 % of measured values typical values of distribution 		< 450 < 400	V V
at 1 kV/µs	 for 99 % of measured values typical values of distribution 		< 650 < 600	V V
Service life				
10 operations	6 5	50 Hz, 1 s ⁵⁾	10	А
1 operation		50 Hz, 0.18 s (9 cycles) ⁵⁾	40	А
10 operations	6 (5x (+) & 5x (-))	8/20 μs ⁵⁾	10	kA
1 operation		8/20 μs ⁵⁾	15	kA
1 operation	1	0/350 μs ⁵⁾	5	kA
Insulation resistance a	at 100 V _{dc} ⁴⁾		> 10	GΩ
Capacitance at 1 MHz	<u>z</u> ⁴⁾		< 1.5	pF
Transverse delay time	e ³⁾		< 0.2	μs
Arc voltage at 1 A			~ 25	V
Glow to arc transition	current		< 1	A
Glow voltage			~ 200	V
Weight			~ 2.2	g
Storage temperature			-40 +90	C
Climatic category (IEC	C 60068-1)		40/ 90/ 21	·
Marking, red negative			EPCOS230 YY O230 - Nominal voltageYY - Year of productionO - Non radioactive	



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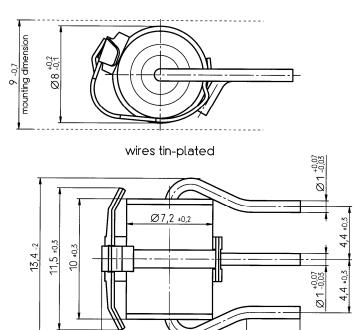
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Test according to ITU-T Rec. K.12
- ⁴⁾ Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

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

The arrester fails afe mechanism contains a solder pellet with a melting temperature range from 193 to 203 $\ensuremath{\mathbb{C}}$.

Dimensional Drawing



(12 max.)

16,5 -0.7

Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- The short-circuit spring does not trigger until 190 °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.

<u>4,</u>5 ^{+1,5}

- 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.
- Surge arrester with triggered short-circuit mechanisms must not be re-used.

KB AB E / KB AB PM



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