

Surge arrester

3-electrode arrester

 Series/Type:
 T31-A230X

 Ordering code:
 B88069X3130xxxx ^{a)}

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

Electrical specifications

DC spark-over voltage	e 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 V
at 1 kV/µs	 for 99 % of measured values typical values of distribution 		< 450 < 420	V V
Service life				
10 operations	6	50 Hz; 1 s ⁵⁾	10	А
1 operation		50 Hz; 0.18 s (9 cycles) $^{5)}$	30	А
10 operations	S [5x (+) & 5x (-)]	8/20 µs ⁵⁾	10	kA
1 operation		8/20 µs ⁵⁾	12	kA
2 operations	S [1x (+) & 1x (-)]	10/350 μs ⁵⁾	2	kA
Insulation resistance	at 100 V _{dc} $^{4)}$		> 10	GΩ
Capacitance at 1 MHz	z ⁴⁾		< 1.5	pF
Transverse delay time	e ³⁾		< 0.2	μs
Arc voltage at 1 A Glow to arc transition Glow voltage	current		~ 30 ~ 1 ~ 200	V A V
Weight			~ 1.4	g
Operation and storage	e temperature		-40 +90	°C
Climatic category (IEC	C 60068-1)		40/ 90/ 21	
Marking, blue negativ	e		EPCOS 230 YY O 230 - Nominal voltage YY - Year of production O - Non radioactive	

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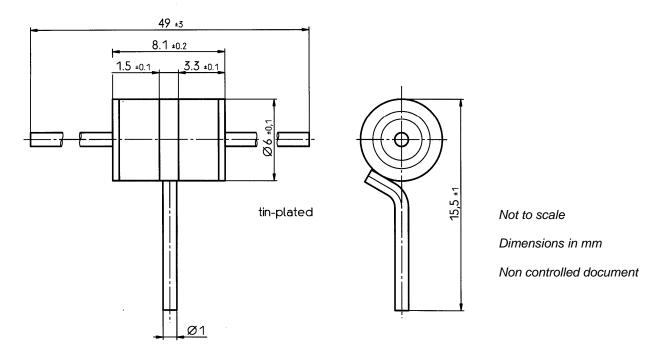
T31-A230X

- ^{a)} xxxx = B102 (100 pcs. on tray) = B252 (250 pcs. on tray)
- 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 and current waveforms in accordance with

ITU-T Rec. K.12; IEC 61643-21 and DIN 57845/VDE0845

Dimensional drawing



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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