

Surge arrester

3-electrode arrester

 Series/Type:
 T31-A90X

 Ordering code:
 B88069X2261B252

 Version/Date:
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3-electrode arrester

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Features	Applications
 Very small size 	 Modem
 Extremely fast response time 	Data lines
 High current rating 	
 Stable performance over life 	
 Extremely low capacitance 	
 High insulation resistance 	
RoHS-compatible	

Electrical specifications

DC spark-over voltage	() (2) (4)		90 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution			< 450 < 300	V V
at 1 kV/µs	for 99 % of measured valuestypical values of distribution		< 500 < 380	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	6 [5x (+) & 5x (-)]	8/20 μs ⁵⁾	10	kA
1 operation		8/20 µs ⁵⁾	12	kA
2 operations	5	10/350 µs ⁵⁾	5	kA
Insulation resistance at 50 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 Glow voltage	current		~ 10 ~ 1 ~ 60	V A V
Weight			~ 1.4	g
Operation and storage	e temperature		-40 +90	C
Climatic category (IEC 60068-1)		40/ 90/ 21		
Marking, blue negative		EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive		



Surge arrester

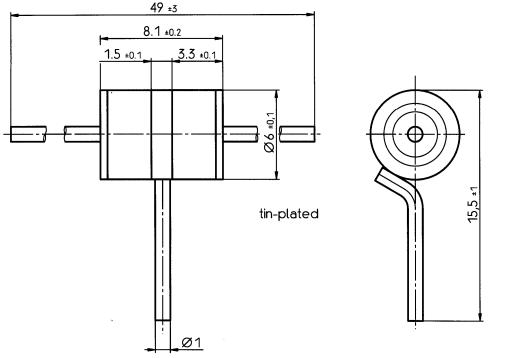
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- ¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Test according to ITU-T Rec. K.12
- ⁴⁾ Tip or ring electrode to center electrode
 ⁵⁾ Total current through center electrode, balf value
- ⁵⁾ Total current through center electrode,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



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.



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