

Surge arrester

3-electrode arrester

Series/Type: T23-A420X

Ordering code: B88069X8070B502

Version/Date: Issue 10 / 2008-07-22

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3-electrode arrester T23-A420X

Features	Applications	
 Standard size 	Line protection	
 Fast response time 	Station protection	
 Very high current rating 	Base stations	
 Stable performance over life 		
 Very low capacitance 		
 High insulation resistance 		
 RoHS-compatible 		

Electrical specifications

DC spark-over voltage ^{1) 2) 4)}		350 550	V
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 750 < 700	V
• • • • • • • • • • • • • • • • • • •	for 99 % of measured valuestypical values of distribution		V
Service life			
10 operations	50 Hz; 1 s ⁵⁾	10	Α
1 operation	50 Hz; 9 cycles ⁵⁾	50	Α
10 operations [5× (+) & 5× (-)]	8/20 μs ⁵⁾	20	kA
1 operation	8/20 μs ⁵⁾	30	kA
1 operation	10/350 μs ⁵⁾	5	kA
Insulation resistance at 100 V _{dc} ⁴⁾		> 10	$G\Omega$
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		~ 30 ~ 1 ~ 200	V A V
Weight		~ 2.2	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS 420 YY M O 420 - Nominal voltage YY - Year of production M - Month of production (1 9 = Jan Sep; O D = Oct Dec) O - Non radioactive	

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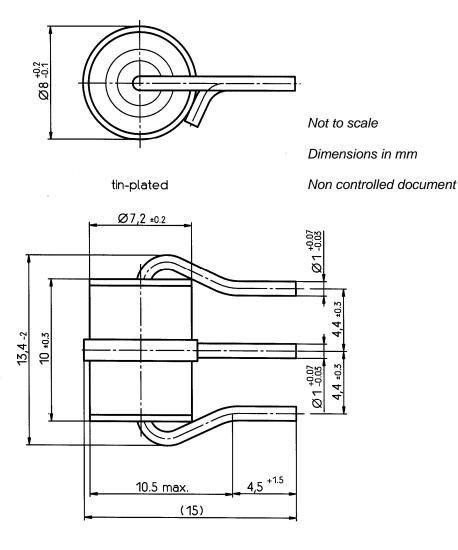
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- ⁴⁾ Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring electrode.

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

Dimensional drawing



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

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