

Surge arrester

3-electrode arrester

 Series/Type:
 T23-A420X

 Ordering code:
 B88069X8070B502

 Version/Date:
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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	VVV
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 850 < 800	V V
Service life		
10 operations 50 Hz; 1 s $^{5)}$	10	A
1 operation 50 Hz; 9 cycles 5^{5}	50	А
10 operations $8/20 \ \mu s^{5}$	20	kA
1 operation $8/20 \ \mu s^{5)}$	25	kA
1 operation 10/350 μs ⁵⁾	5	kA
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	~ 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		<u> </u>
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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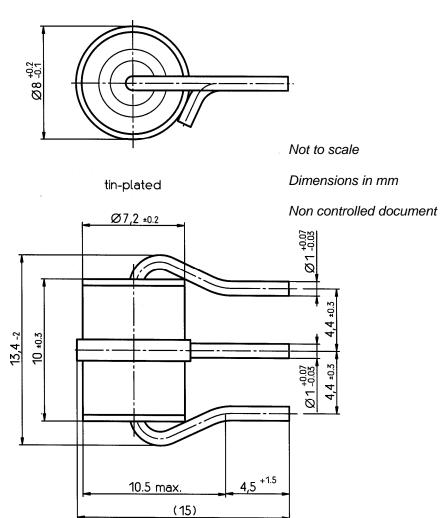
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- ¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Test according to ITU-T Rec. K.12
- ⁴⁾ Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

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

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.

KB AB E / KB AB PM



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