

Surge arrester

3-electrode arrester

 Series/Type:
 T23-A420XF4

 Ordering code:
 B88069X7140B502

 Version/Date:
 Issue 06 / 2007-04-23

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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	V	
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 850 < 800	V	
Service life 10 operations 50 Hz; 1 s ⁵⁾ 1 operation 50 Hz; 9 cycles ⁵⁾ 10 operations 8/20 μs ⁵⁾ 1 operation 8/20 μs ⁵⁾ 1 operation 10/350 μs ⁵⁾	10 50 20 25 5	A A kA 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	~ 2.5	g	
Storage temperature	-40 +90	°C	
Climatic category (IEC 60068-1)	40/ 90/ 21	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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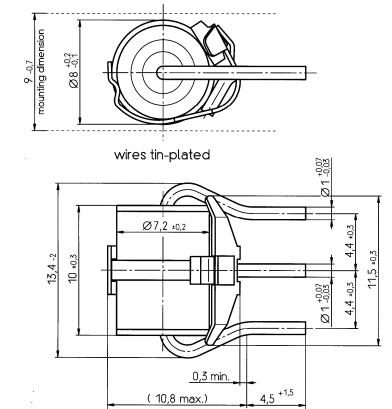
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- ⁴⁾ Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

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

The arrester failsafe mechanism contains a solder pellet with a melting temperature between 193 and 203 °C.

Dimensional drawing



15,3 +1

Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- The short-circuit spring does not trigger until 180 °C is reached depending on the material. Care must be taken to limit the thermal radiation onto adjacent parts to safe values.
- 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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