



Surge arrester

3-electrode arrester

Series/Type: T23-A420XF4
Ordering code: B88069X7140B502
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Features	Applications
<ul style="list-style-type: none"> ▪ Standard size ▪ Fast response time ▪ Very high current rating ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ RoHS-compatible 	<ul style="list-style-type: none"> ▪ Line protection ▪ Station protection ▪ Base stations

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	< 750	V
- typical values of distribution	< 700	V
at 1 kV/μs - for 99 % of measured values	< 850	V
- typical values of distribution	< 800	V
Service life		
10 operations 50 Hz; 1 s ⁵⁾	10	A
1 operation 50 Hz; 9 cycles ⁵⁾	50	A
10 operations 8/20 μs ⁵⁾	20	kA
1 operation 8/20 μs 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	~ 30	V
Glow to arc transition current	~ 1	A
Glow voltage	~ 200	V
Weight	~ 2.5	g
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	

Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
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