

Surge arrester

3-electrode arrester

Series/Type: T85-A420X Ordering code: B88069X69

Ordering code: B88069X6991B502

Version/Date: Issue 01 / 2007-08-29



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3-electrode arrester T85-A420X

Features	Applications
 Standard size 	Branch exchange (MDF)
 Fast response time 	Line protection
 High current rating 	Station protection
 Stable performance over life 	
 Very low capacitance 	
 High insulation resistance 	
 RoHS-compatible 	

Electrical specifications

DC spark-over voltage 1) 2) 4)	420 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution	< 850 < 700	V
at 1 kV/μs - for 99 % of measured values - typical values of distribution	< 950 < 850	V
Service life 10 operations 50 Hz, 1 s $^{5)}$ 1 operation 50 Hz, 0.18 s (9 cycles) $^{5)}$ 10 operations 8/20 μ s $^{5)}$ 1 operation 8/20 μ s $^{5)}$	10 40 10 15	A A kA 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 Glow to arc transition current ~ 1 Glow voltage ~ 200		V A V
Weight	~ 2	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red 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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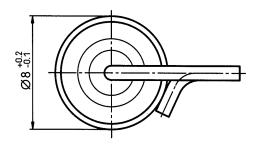
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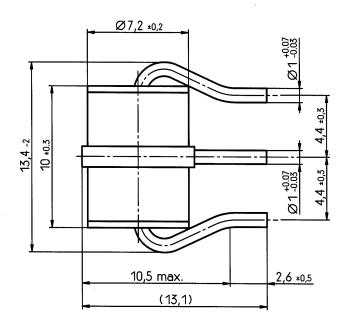
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring electrode.

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

Dimensional drawing



tin-plated



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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