



Surge arrester

3-electrode arrester

Series/Type: T23-A400XF4
Ordering code: B88069X5471B502
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Features	Applications
<ul style="list-style-type: none"> ▪ Standard size ▪ Extremely fast response time ▪ Very high current rating ▪ Stable performance over life ▪ Very low capacitance ▪ High insulation resistance ▪ Reliable failsafe device ▪ RoHS-compatible 	<ul style="list-style-type: none"> ▪ Branch exchange (MDF) ▪ Line protection ▪ Station protection

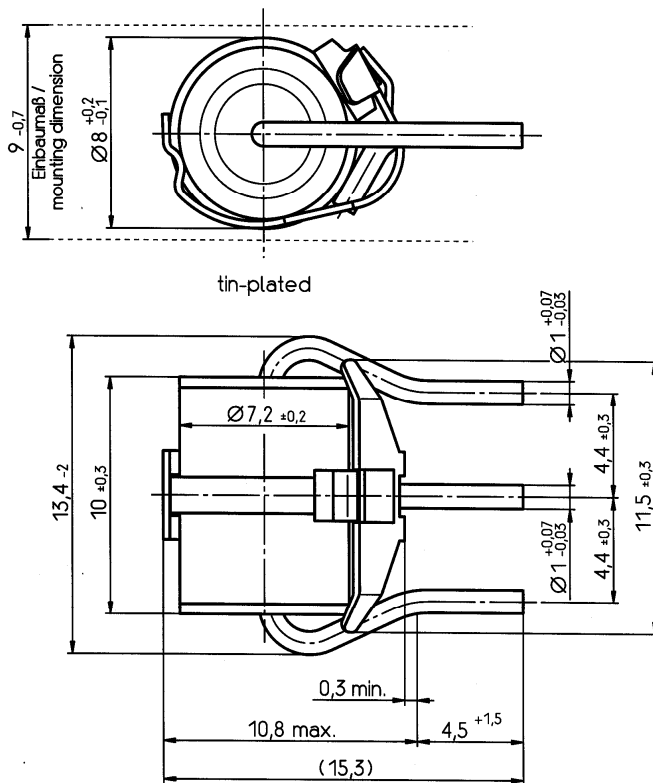
Electrical specifications

DC spark-over voltage ^{1) 2) 3)}	300 ... 500	V
Impulse spark-over voltage ³⁾ at 1 kV/μs - for 99 % of measured values - typical values of distribution	< 800 < 700	V V
Insulation resistance at 100 V _{dc} ³⁾	> 10	GΩ
Capacitance at 1 MHz ³⁾	< 1.5	pF
Service life according to TELEBRAS SDT 235-430-708		
10 operations 50 Hz; 1 s ⁴⁾	2	A _{rms}
+ 1 operation 50 Hz; 0.33 s ⁴⁾	20	A _{rms}
120 operations 10/1000 μs ⁴⁾	50	A
+ 20 operations 10/1000 μs ⁴⁾	100	A
+ 6 operations 10/1000 μs ⁴⁾	200	A
+ 2 operations 10/1000 μs ^{5) 6)}	200	A
+ 2 operations 10/1000 μs ^{5) 6)}	1	kA
DC hold-over voltage ^{5) 7)}		
at 52 V _{dc} / 200 Ω	< 150	ms
at 135 V _{dc} / 675 Ω	< 150	ms
Weight	~ 2.5	g
Storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	EPCOS 400 YY O 400 - Nominal voltage YY - Year of production O - Non radioactive	

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
 - 2) In ionized mode
 - 3) Tip or ring electrode to center electrode
 - 4) Total current through center electrode, half value through tip respectively ring electrode.
 - 5) Total current through center electrode, same value through tip respectively ring electrode
 - 6) 1 operation for each gap
 - 7) In accordance with TELEBRAS SDT 235-430-708
- 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



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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