



Surge arrester

3-electrode arrester

Series/Type:	T83-A350XF1
Ordering code:	B88069X9410B502
Version/Date:	Issue 07 / 2009-04-30

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

Electrical specifications

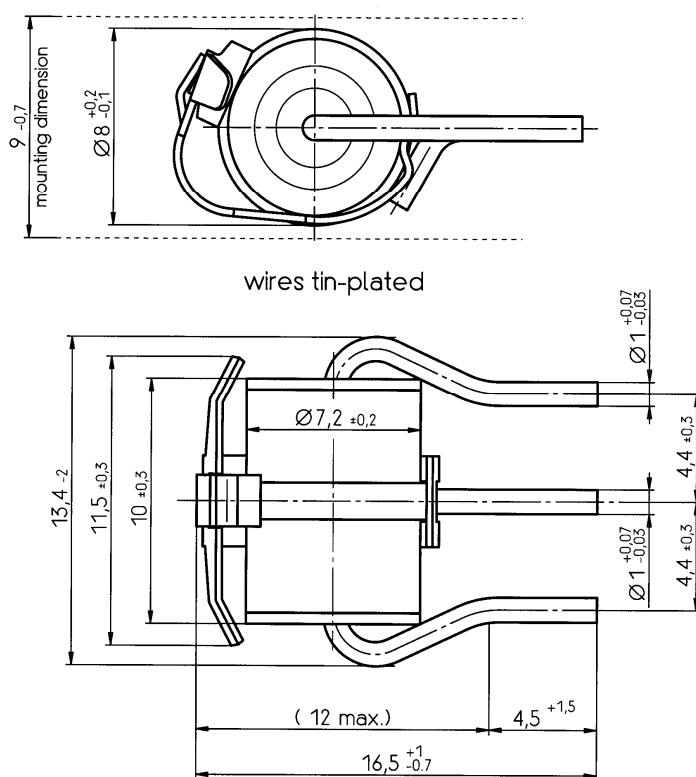
DC spark-over voltage ^{1) 2) 4)}	350 ± 20	V %
Impulse spark-over voltage ⁴⁾		
at 100 V/μs - for 99 % of measured values - typical values of distribution	< 700 < 600	V V
at 1 kV/μs - for 99 % of measured values - typical values of distribution	< 900 < 800	V V
Service life		
10 operations 50 Hz, 1 s ⁵⁾	10	A
1 operation 50 Hz, 0.18 s (9 cycles) ⁵⁾	40	A
10 operations [5× (+) & 5× (-)] 8/20 μs ⁵⁾	10	kA
1 operation 8/20 μs ⁵⁾	20	kA
1 operation 10/350 μs ⁵⁾	2.5	kA
300 operations [150× (+) & 150× (-)] 10/1000 μs ⁵⁾	200	A
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	~ 10	V
Glow to arc transition current	< 1	A
Glow voltage	~ 60	V
Weight	~ 2.2	g
Storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red negative	EPCOS 350 YY O 350 - 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) 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 range from 230 to 240 °C.

Dimensional Drawing



Not to scale

Dimensions in mm

Non controlled document

Cautions and warnings

- The short-circuit spring does not trigger until 230 °C is reached depending on the material. Care must be taken to limit the thermal radiation onto adjacent parts to safe values.
- Depending on the incorporation position, the surge arrester may have to be additionally secured by mechanical means.
- 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.
- Surge arrester with triggered short-circuit mechanisms must not be re-used.

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Release 2018-10

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