

Surge arrester

3-electrode arrester

 Series/Type:
 T25-A230XF1

 Ordering code:
 B88069X8630xxxx ^{a)}

 Version/Date:
 Issue 07 / 2007-10-18

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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 	
 Reliable failsafe device 	
RoHS-compatible	

Electrical specifications

DC spark-over voltage ^{1) 2) 4)}		230 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 400 < 350	V V
•	 for 99 % of measured values typical values of distribution 		V V
Service life 10 operations 1 operation 10 operations [5x (+) & 5x (-)] 1 operation 1 operation 300 operations Insulation resistance at 100 V _{dc} ⁴⁾	50 Hz, 1 s ⁵⁾ 50 Hz, 0.18 s (9 cycles) ⁵⁾ 8/20 μs ⁵⁾ 8/20 μs ⁵⁾ 10/350 μs ⁵⁾ 10/1000 μs ⁵⁾	10 50 20 25 5 200 > 10	A A kA kA kA A GΩ
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		~ 35 ~ 1 ~ 200	V A V
Weight		~ 2	g
Storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS 230 YY O 230 - Nominal voltage YY - Year of production O - Non radioactive	

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Please read *Cautions and warnings* and *Important notes* at the end of this document.

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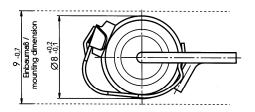
T25-A230XF1

- ^{a)} xxxx = B102 (100 pcs. on tray) B502 (500 pcs. on tray)
- 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 surrent through center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

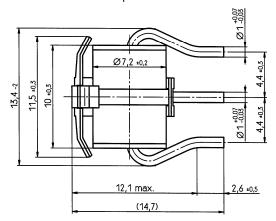
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

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

Dimensional drawing



tin-plated



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.
- 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.
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