

Surge arrester

3-electrode arrester

 Series/Type:
 T21-A250X

 Ordering code:
 B88069X8800B252

 Version/Date:
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3-electrode arrester

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Features	Applications
 Standard size Extremely fast response time Very high current rating 	Line protectionStation protectionBase stations
 Stable performance over life Very low capacitance High insulation resistance RoHS-compatible 	

Electrical specifications

DC spark-over voltage ^{1) 2) 4)}		250 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 500 < 400	V V
I I I I I I I I I I I I I I I I I I I	at 1 kV/µs - for 99 % of measured values - typical values of distribution		V V
Service life			
10 operations	50 Hz; 1 s ⁵⁾	10	А
1 operation	50 Hz; 0.18 s (9 cycles) $^{5)}$	50	А
10 operations [5x (+) & 5x (-] 8/20 μs ⁵⁾	20	kA
1 operation	8/20 μs ⁵⁾	25	kA
1 operation	10/350 μs ⁵⁾	5	kA
300 operations	10/1000 μs ⁵⁾	200	А
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 Glow to arc transition current Glow voltage		~ 35 ~ 1 ~ 200	V A V
Weight		~ 2	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS 250 YY O 250 - Nominal voltage YY - Year of production O - Non radioactive	

KB AB E / KB AB PM



Surge arrester

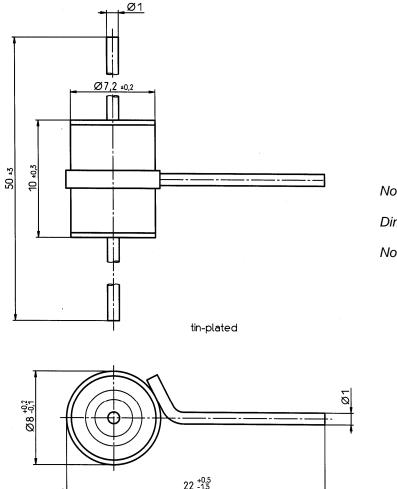
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Test according to ITU-T Rec. K.12
- ⁴⁾ Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

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

Dimensional drawing



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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