

# Surge arrester

3-electrode arrester

Series/Type: Ordering code: T21-A350X

B88069X5120B252

Version/Date: Issue 07 / 2007-04-23



Surge arrester B88069X5120B252

## 3-electrode arrester T21-A350X

Features		Applications	
• 5	Standard size	•	Line protection
- F	ast response time	•	Station protection
• \	Very high current rating	•	Base stations
• 5	Stable performance over life		
- \	Very low capacitance		
- H	High insulation resistance		
- F	RoHS-compatible		

#### **Electrical specifications**

Electrical specifications	1		
DC spark-over voltage 1) 2) 4)	350	V	
	± 20	%	
Impulse spark-over voltage 4)			
at 100 V/µs - for 99 % of measured values	< 650	V	
<ul> <li>typical values of distribution</li> </ul>	< 550	V	
at 1 kV/µs - for 99 % of measured values	< 700	V	
<ul> <li>typical values of distribution</li> </ul>	< 600	V	
Service life			
10 operations 50 Hz; 1 s <sup>5)</sup>	10	Α	
1 operation 50 Hz; 9 cycles <sup>5)</sup>	50	Α	
10 operations 8/20 µs 5)	20	kA	
1 operation 8/20 µs 5)	25	kA	
1 operation 10/350 $\mu$ s <sup>5)</sup>	5	kA	
Insulation resistance at 100 V <sub>dc</sub> <sup>4)</sup>	> 10	GΩ	
Capacitance at 1 MHz 4)	< 1.5	pF	
Transverse delay time 3)	< 0.2	μs	
Arc voltage at 1 A	~ 35	V	
Glow to arc transition current	~ 1	Α	
Glow voltage	~ 200	V	
Weight	~ 2.2	g	
Operation and storage temperature	-40 +90	°C	
Climatic category (IEC 60068-1)	40/ 90/ 21		
Marking, blue negative	EPCOS 350 YY O 350 - Nominal voltage YY - Year of production O - Non radioactive		

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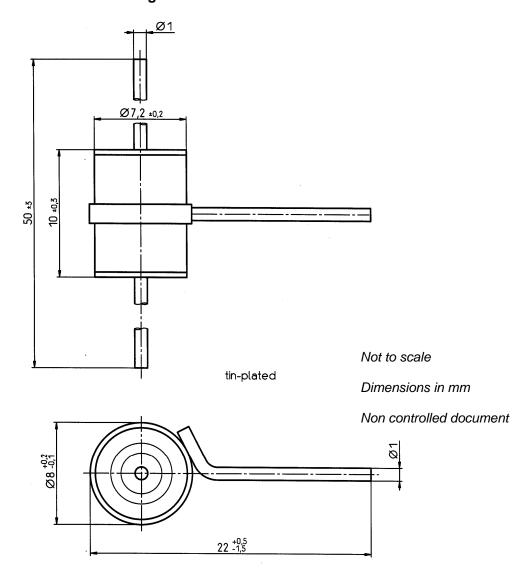
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#### 3-electrode arrester T21-A350X

- At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- Test according to ITU-T Rec. K.12
- <sup>4)</sup> 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**



### **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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

KB AB E / KB AB PM Issue 07 / 2007-04-23



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