



## Surge arrester

### 3-electrode arrester

**Series/Type:** T20-A250X  
**Ordering code:** B88069X8810C203  
**Version/Date:** Issue 06 / 2010-11-19

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**Features**

- Standard size
- Extremely fast response time
- Very high current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

**Applications**

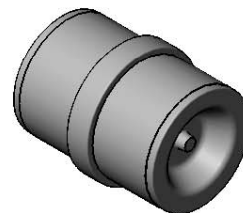
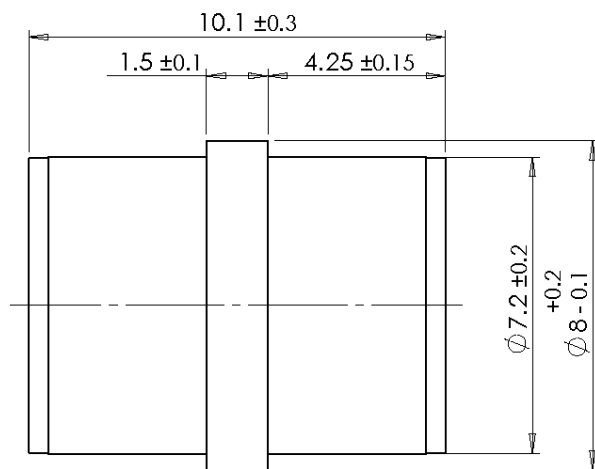
- Line protection
- Station protection
- Base stations

**Electrical specifications**

DC spark-over voltage <sup>1) 2) 4)</sup>		250 ± 20	V %
Impulse spark-over voltage <sup>4)</sup>			
at 100 V/μs	- for 99 % of measured values - typical values of distribution	< 500 < 400	V V
at 1 kV/μs	- for 99 % of measured values - typical values of distribution	< 600 < 550	V V
Service life			
10 operations	50 Hz; 1 s <sup>5)</sup>	20	A
1 operation	50 Hz; 0.18 s (9 cycles) <sup>5)</sup>	50	A
10 operations [5x (+) & 5x (-)]	8/20 μs <sup>5)</sup>	20	kA
10 operations	8/20 μs <sup>6)</sup>	20	kA
1 operation	8/20 μs <sup>5)</sup>	25	kA
2 operations	10/350 μs <sup>5)</sup>	5	kA
300 operations	10/1000 μs <sup>5)</sup>	200	A
Insulation resistance at 100 V <sub>dc</sub> <sup>4)</sup>		> 10	GΩ
Capacitance at 1 MHz <sup>4)</sup>		< 1.5	pF
Transverse delay time <sup>3)</sup>		< 0.2	μs
Arc voltage at 1 A		~ 35	V
Glow to arc transition current		~ 1	A
Glow voltage		~ 200	V
Weight		~ 2	g
Operation and storage temperature		-40 ... +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		<b>EPCOS</b> <b>250 YY O</b> 250 - 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.
  - 6) Total current through center electrode, tip to ring shorted
- Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845

### Dimensional drawing in mm



tin-plated

### Ordering code and packing advice

**B88069X8810C203** = 2000 pcs in container

### 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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