

# Surge arrester

3-electrode arrester

Series/Type: T80-A420X

Ordering code: B88069X7910C203

Date: 2019-08-21

Version: 05

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Surge arrester B88069X7910C203

3-electrode arrester T80-A420X

#### **Features**

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

# **Applications**

- Base stations
- Line protection
- Station protection

# **Electrical specifications**

DC spark-over voltage 1) 2) 3)		420	V
Tolerance		±20	%
Min.		336	V
Max.		504	V
Impulse spark-over voltage 3)			
at 100 V/µs - for 99% of measured values		< 850	V
<ul> <li>typical values of distribution</li> </ul>		< 700	V
at 1 kV/µs - for 99% of measured values - typical values of distribution		< 950	V
		< 850	V
Service life			
10 operations	50 Hz; 1 s <sup>4)</sup>	10	Α
1 operation	50 Hz; 0.18 s (9 cycl.) <sup>4)</sup>	40	Α
10 operations [5x (+) & 5x (-)]	8/20 µs <sup>4)</sup>	10	kA
1 operation	8/20 µs <sup>4)</sup>	15	kA
1 operation	10/350 μs <sup>4)</sup>	2	kA
300 operations	10/1000 μs <sup>4)</sup>	200	А
Insulation resistance at 100 V <sub>DC</sub> <sup>3)</sup>		> 10	$G\Omega$
Capacitance at 1 MHz <sup>3)</sup>		< 1.5	pF
Transverse delay time 5)		< 0.2	μs
Arc voltage at 1 A		~ 35	V
Glow to arc transition current		< 1	Α
Glow voltage		~ 200	V
Weight		~ 2	g
Operation and storage temperature		-40 <b>+</b> 125	°C
Climatic category (IEC 60068-1)		40/125/21	
Marking, red negative		EPCOS 420 YY M O 420 - Nominal voltage YY - Year of production M - Month of production (1 9 = Jan Sep O D = Oct Dec) O - Non radioactive	

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T80-A420X 3-electrode arrester

At delivery AQL 0.65 level II, DIN ISO 2859



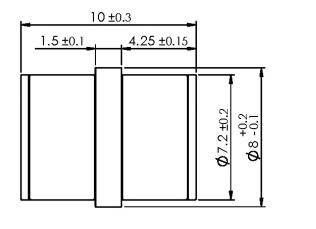
2) In ionized mode

Certifications

- 3) Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring electrode. Test according to ITU-T Rec. K.12

Terms in accordance with ITU-T Rec. K.12 and IEC 61643-311.

# Dimensional drawing in mm

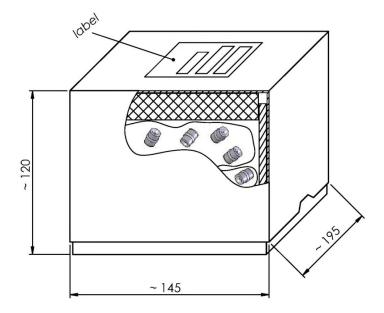




nickel-plated

## Ordering code and packing advice

B88069X7910**C203** = 2000 pcs. in container



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#### **Cautions and warnings**

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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### Important notes

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