

Surge arrester

2-electrode arrester

M51-C90XG

Series/Type: Ordering code: B88069X5020T103

Version/Date: Issue 08 / 2011-12-16



Surge arrester B88069X5020T103

2-electrode arrester M51-C90XG

Features

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

Applications

- Modem
- XDSL-splitter
- Data lines
- Tuner
- Antenna

Electrical specifications

DC spark-over voltage 1) 2)	90 ± 20	V %
Impulse spark-over voltage		
at 100 V/µs - for 99 % of measured values - typical values of distribution	< 400 < 300	V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 600 < 550	V
Service life		
10 operations 50 Hz, 1 s	5	Α
1 operation 50 Hz, 0.18 s (9 cycles)	10	Α
10 operations 8/20 μs	5	kA
1 operation 8/20 μs	7.5	kA
1 operation 10/350 μs	0.5	kA
300 operations 10/1000 μs	100	Α
Insulation resistance at 50 V _{DC}	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 ~ 0.8 ~ 60	V A V
Weight	~ 1	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	EPCOS 90 YY O 90 - Nominal voltage YY - Year of production O - Non radioactive	

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

Terms in accordance with ITU-T Rec. K.12, IEC 61663-2 and IEC 61643-311

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²⁾ In ionized mode

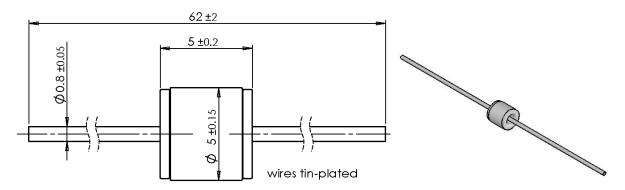


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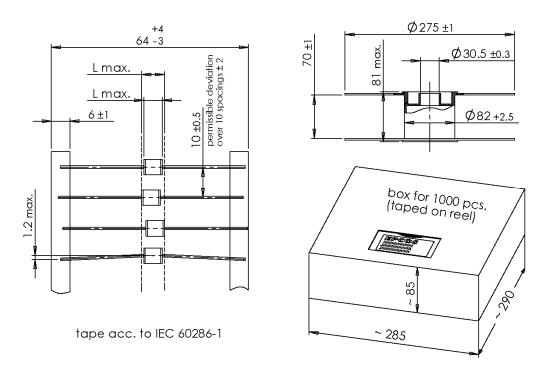
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Dimensional drawing in mm



Ordering code and packing advice

B88069X5020**T103** = 1000 pcs on tape and reel



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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