

Surge arrester

2-electrode arrester

Series/Type: Ordering code: EM90X

B88069X0190xxxx a) Version/Date: Issue 07 / 2006-08-31

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Surge arrester	B88069X0190xxxx ^{a)}	
2-electrode arrester	EM90X	

Features	Applications
 Very small size 	■ Modem
 Very fast response time 	 XDSL-splitter
 Stable performance over life 	 Data lines
 Extremely low capacitance 	■ Tuner
 High insulation resistance 	Antenna
 RoHS-compatible 	

Electrical specifications

DC spark-over voltage 1) 2)	90 V	
3.	± 20	%
Impulse spark-over voltage		
at 100 V/µs - for 99% of measured values	< 400	V
 typical values of distribution 	< 330	V
at 1 kV/µs - for 99% of measured values	< 600	V
- typical values of distribution	< 530	V
Service life		
10 operations 50 Hz, 1 s	2.5	Α
10 operations 8/20 μs	2.5	kA
1 operation 10/350 μs	0.5	kA
Insulation resistance at 50 V _{dc}	> 1	$G\Omega$
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 15	V
Glow to arc transition current	~ 0.8	Α
Glow voltage	~ 80	V
Weight	~ 1	g
Operation and storage temperature	-40 +90	°C
Climatic category (IEC 60068-1) 40/ 90/ 21		
Marking, red positive	EPCOS EM 90 YY O	
	EM - Series	
	90 - Nominal voltage YY - Year of production	
	O - Non radioactive	· ·

xxxx = S102 (100 pcs on 5 taped stripes) = T502 (500 pcs on tape and reel)

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

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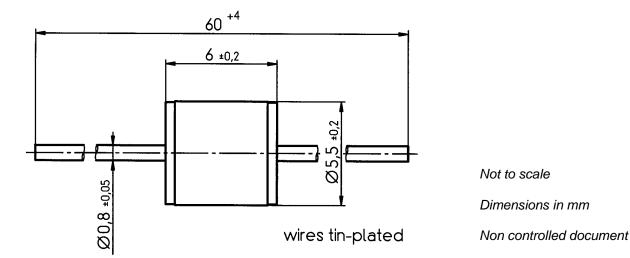
 $^{^{1)}}$ At delivery AQL 0.65 level II, DIN ISO 2859 $^{2)}$ In ionized mode



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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.



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