

Surge arrester

2-electrode arrester

Series/Type: EC90X Ordering code: B88069

Ordering code: B88069X0720S102

Version/Date: Issue 05 / 2006-08-31



Surge arrester B88069X0720S102

2-electrode arrester

EC90X

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

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	< 500 < 450	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 operations 50 Hz, 0.18 s (9 cycles)	20	Α	
10 operations 8/20 μs	5	kA	
1 operation 8/20 μs	10	kA	
1 operation 10/350 μs	1	kA	
300 operations 10/1000 μs	100	А	
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	~ 12 ~ 0.8 ~ 80	V A V	
Weight	~ 1.5	g	
Operation and storage temperature	-40 +90	\mathcal{C}	
Climatic category (IEC 60068-1)	40/ 90/ 21	40/ 90/ 21	
Marking, red positive	EC - Series 90 - Nominal volta YY - Year of produ	90 - Nominal voltage YY - Year of production	

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

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

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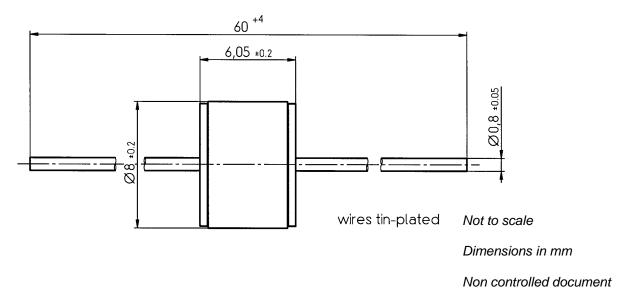
²⁾ In ionized mode



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



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