

Surge arrester

2-electrode arrester

Series/Type: EM90X

Ordering code: 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 ± 20	V %
Impulse spark-over voltage at 100 V/µs - for 99 % of measured values - typical values of distribution	< 400 < 330	V
at 1 kV/µs - for 99 % of measured values - typical values of distribution	< 600 < 530	V V
Service life 10 operations 50 Hz, 1 s 10 operations 8/20 µs	2.5 2.5	A kA
1 operation 10/350 μs	0.5	kA
Insulation resistance at 50 V _{dc} Capacitance at 1 MHz	> 1	GΩ pF
Arc voltage at 1 A Glow to arc transition current Glow voltage	~ 15 ~ 0.8 ~ 80	V A 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	n

a) 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

KB AB E / KB AB PM Issue 07 / 2006-08-31

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

²⁾ In ionized mode

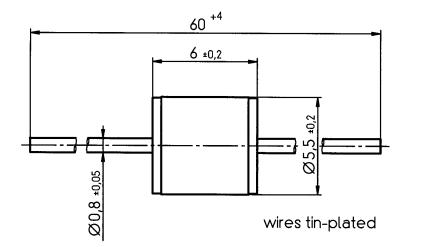


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Dimensional drawing



Not to scale

Dimensions in mm

Non controlled document

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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