

Surge arrester

3-electrode arrester

 Series/Type:
 EZ3-A90X

 Ordering code:
 B88069X4991B502

 Version/Date:
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Surge arrester

3-electrode arrester

Features	Applications		
 Extremely small size 	 Branch exchange (MDF) 		
 Fast response time 	 Line protection 		
 High current rating 	 Station protection 		
 Stable performance over life 			
 Very low capacitance 			
 High insulation resistance 			
 RoHS-compatible 			

Electrical specifications

DC spark-over voltage ^{1) 2) 4)}		90 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 450 < 350	V V
1	 s - for 99 % of measured values - typical values of distribution 		V V
Service life 10 operations 1 operation 10 operations [5x (+) & 5x (-)]	50 Hz, 1 s ⁵⁾ 50 Hz, 0.18 s ⁵⁾ 8/20 μs ⁵⁾	5 5 5	A A kA
1 operation 300 operations (alternating polarity) Insulation resistance at 50 V _{dc} ⁴⁾	10/350 μs ⁵⁾ 10/1000 μs ⁵⁾	1 200 > 1	κΑ Α GΩ
Capacitance at 1 MHz ⁴⁾ DC holdover voltage ³⁾ at 135 V _{dc} / 1300 Ω		< 1.5	pF ms
Transverse delay time ³⁾		< 0.2	μs
Arc voltage at 1 A Glow to arc transition current Glow voltage		~ 10 ~ 1 ~ 80	V A V
Weight		~ 1.0	g
Operation and storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/90/21	
Marking, blue negative		EPCOS EZ 90 YY O EZ - Series 90 - Nominal voltage YY - Year of production O - Non radioactive	

KB AB E / KB AB PM

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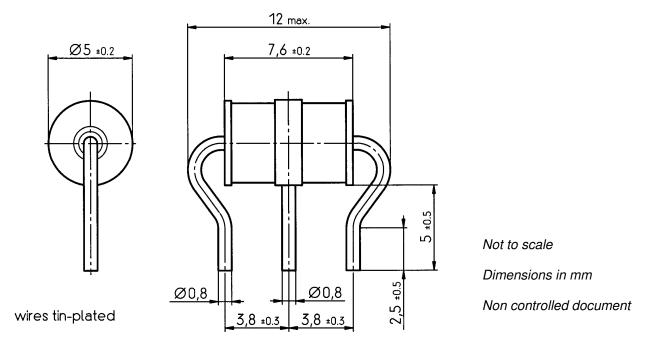
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- ²⁾ In ionized mode
- ³⁾ Test according to ITU-T Rec. K.12
- ⁴⁾ Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.

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

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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