

# Surge arrester

3-electrode arrester

EZ3-A350X

Series/Type: Ordering code: B88069X5191B502

Version/Date: Issue 02 / 2007-09-06



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

## **Electrical specifications**

DC spark-over voltage 1) 2) 4)		350	V
		± 20	%
Impulse spark-over voltage 4)			
at 100 V/µs - for 99 % of measured values		< 650	V
<ul> <li>typical values of distribution</li> </ul>		< 600	V
at 1 kV/µs - for 99 % of measured values - typical values of distribution		< 800	V
		< 750	V
Service life			
10 operations	50 Hz, 1 s <sup>5)</sup>	5	Α
1 operation	50 Hz, 0.18 s <sup>5)</sup>	5	Α
10 operations [5x (+) & 5x (-)]	8/20 μs <sup>5)</sup>	5	kA
1 operation	10/350 µs <sup>5)</sup>	1	kA
300 operations (alternating polarity)	10/1000 µs <sup>5)</sup>	200	Α
Insulation resistance at 100 V <sub>dc</sub> <sup>4)</sup>		> 1	$G\Omega$
Capacitance at 1 MHz <sup>4)</sup>		< 1.5	pF
DC holdover voltage 3)			
at 135 V <sub>dc</sub> / 1300 Ω		< 150	ms
Transverse delay time <sup>3)</sup>		< 0.2	μs
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		~ 1	Α
Glow voltage		~ 80	V
Weight		~ 0.8	g
Operation and storage temperature		-40 <b>+</b> 90	$\mathcal{C}$
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue, negative		EPCOS EZ 350 YY O EZ - Series 350 - Nominal voltage YY - Year of production O - Non radioactive	

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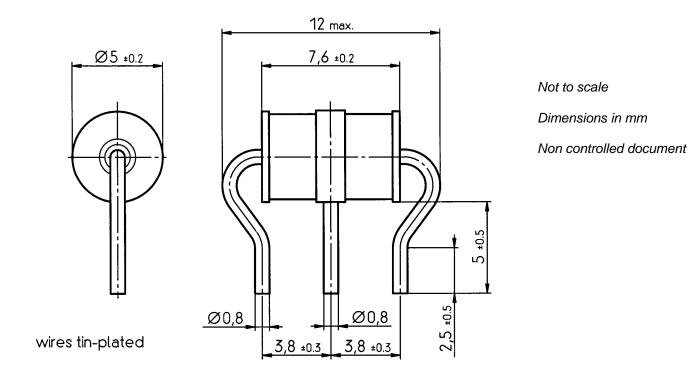
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- Test according to ITU-T rec. K. 12
- <sup>4)</sup> Tip or ring electrode to center electrode
- Total current through center electrode, half value through tip respectively ring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