

Surge arrester

3-electrode arrester

EZ0-A230XF

Series/Type: Ordering code: B88069X3751B502

Version/Date: Issue 03 / 2007-05-15



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3-electrode arrester EZ0-A230XF

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 		
 Reliable failsafe device 		
 RoHS-compatible 		

Electrical specifications

DC spark-over voltage 1) 2) 4)		230	V	
		± 20	%	
Impulse spark-over voltage 4)				
at 100 V/µs - for 99 % of measured values		< 600	V	
 typical values of distribution 		< 450	V	
at 1 kV/µs - for 99 % of measured values - typical values of distribution		< 750	V	
		< 600	V	
Service life				
10 operations	50 Hz, 1 s ⁵⁾	5	Α	
10 operations	50 Hz, 1 s ⁷⁾	5	Α	
10 operations	8/20 μs ⁵⁾	5	kA	
10 operations	8/20 µs ⁶⁾	5	kA	
300 operations, alternating polarit		200	А	
Insulation resistance at 100 V _{dc} ⁴⁾		> 1	GΩ	
Capacitance at 1 MHz 4)		< 1.5	pF	
DC holdover voltage 3)				
at 135 V_{dc} / 1300 Ω		< 150	ms	
Transverse delay time 3)		< 0.2	μs	
Arc voltage at 1 A		~ 10	V	
Glow to arc transition current		~ 1	Α	
Glow voltage		~ 80	V	
Weight		~ 1	g	
Storage temperature		-40 +90	°C	
Climatic category (IEC 60068-1)		40/ 90/ 21		
Marking, blue negative		QUICKTEL		
		YY 3R230		
		3R - Series (cust	3R - Series (customer specific)	
		230 - Nominal vol YY - Year of prod	•	
		111 - Teal Of proc	Juction	

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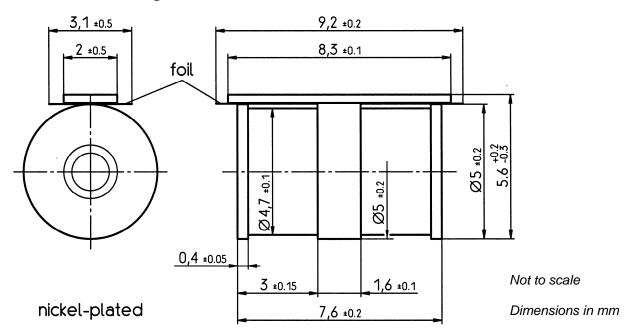
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- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Test according to ITU-T Rec. K.12
- 4) Tip or ring electrode to center electrode
- ⁵⁾ Total current through center electrode, half value through tip respectively ring electrode.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

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

Arrester fail safe works at temperatures > 260 °C. The arrester has to be fixed mechanically, if the arrester is contacted by soldering and if the solder temperature is less than 260 °C.

Dimensional drawing



Cautions and warnings

The short-circuit spring does not trigger until 260 °C is reached depending on the material. Care must be taken to limit the thermal radiation onto adjacent parts to safe values.

Non controlled document

- Depending on the incorporation position, the surge arrester may have to be additionally secured by mechanical means.
- 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.
- Surge arrester with triggered short-circuit mechanisms must not be re-used.

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