

Surge arrester

3-electrode arrester

Series/Type:EZ0-A230XFOrdering code:B88069X5460B502Version/Date:Issue 07 / 2007-09-06

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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 ± 20	V %
Impulse spark-over voltage ⁴⁾ at 100 V/µs - for 99 % of measured values - typical values of distribution		< 600 < 450	V V
1	 for 99 % of measured values typical values of distribution 		V V
Service life 10 operations	50 Hz, 1 s ⁵⁾	5	A
1 operation	50 Hz, 0.18 s ⁵⁾	5	A
10 operations [5x (+) & 5x (–)]	8/20 μs ⁵⁾	5	kA
1 operation	10/350 µs ⁵⁾	1	kA
300 operations (alternating polarity)	10/1000 µs ⁵⁾	200	A
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 Glow to arc transition current Glow voltage		~ 10 ~ 1 ~ 80	V A V
Weight		~ 1.0	g
Storage temperature		-40 +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	
Marking, blue negative		EPCOS EZ 230 YY O EZ - Series 230 - Nominal voltage YY - Year of production O - Non radioactive	

KB AB E / KB AB PM

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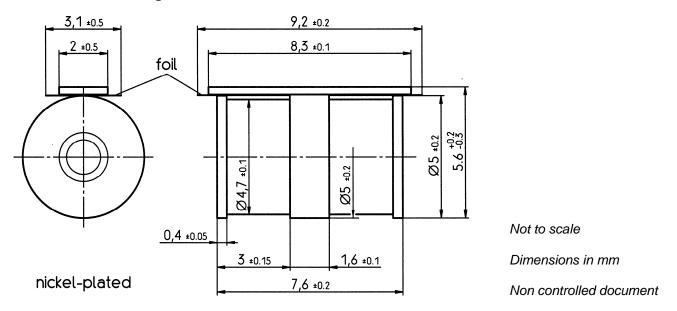
3-electrode arrester

- 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

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

- 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 mechanism must not be re-used.

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