

# Surge arrester

3-electrode arrester

 Series/Type:
 T20-A230X

 Ordering code:
 B88069X8710xxxx <sup>a)</sup>

 Version/Date:
 Issue 05 / 2007-10-10

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## Surge arrester

#### **3-electrode arrester**

B88069X8710xxxx <sup>a)</sup>

T20-A230X

Features	Applications	
<ul> <li>Standard size</li> </ul>	Line protection	
<ul> <li>Extremely fast response time</li> </ul>	<ul> <li>Station protection</li> </ul>	
<ul> <li>Very high current rating</li> </ul>	<ul> <li>Base stations</li> </ul>	
<ul> <li>Stable performance over life</li> </ul>		
<ul> <li>Very low capacitance</li> </ul>		
<ul> <li>High insulation resistance</li> </ul>		
RoHS-compatible		

### **Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	4)		230 ± 20	V %
Impulse spark-over voltage <sup>4)</sup> at 100 V/µs - for 99 % of measured values		< 400	V	
<ul> <li>typical values of distribution</li> </ul>		< 350	V	
	<ul> <li>for 99 % of measured values</li> <li>typical values of distribution</li> </ul>		< 500 < 450	V V
Service life				
10 operations		50 Hz; 1 s <sup>5)</sup>	10	A
1 operation		50 Hz; 0.18 s (9 cycles) $^{5)}$	50	A
10 operations [5x (+) & 5x (-)]		8/20 µs <sup>5)</sup>	20	kA
1 operation		8/20 µs <sup>5)</sup>	25	kA
1 operation		10/350 μs <sup>5)</sup>	5	kA
300 operations		10/1000 µs <sup>5)</sup>	200	А
Insulation resistance at 100 $V_{dc}^{4)}$			> 10	GΩ
Capacitance at 1 MHz <sup>4)</sup>			< 1.5	pF
Transverse delay time <sup>3)</sup>			< 0.2	μs
Arc voltage at 1 A			~ 35	V
Glow to arc transition current			~ 1	A
Glow voltage			~ 200	V
Weight			~ 2	g
Operation and storage temperature		-40 +90	°C	
Climatic category (IEC 60068-1)		40/ 90/ 21		
YY - Year of pro		230 YY O230- Nominal voltageYY- Year of product	ction	

KB AB E / KB AB PM

# **②TDK**

#### Surge arrester

#### **3-electrode arrester**

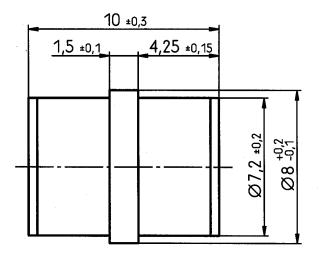
B88069X8710xxxx <sup>a)</sup>

T20-A230X

- <sup>a)</sup> xxxx = C252 (container with 250 pcs.) = C203 (container with 2000 pcs.)
- <sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859
- <sup>2)</sup> In ionized mode
- <sup>3)</sup> Test according to ITU-T Rec. K.12
- <sup>4)</sup> Tip or ring electrode to center electrode
- <sup>5)</sup> 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**



Not to scale Dimensions in mm Non controlled document

nickel-plated

#### **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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