



## Surge arrester

### 3-electrode arrester

**Series/Type:** T63-C650X  
**Ordering code:** B88069X6990B102  
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**Features**

- Very fast response time
- Maximum current rating
- Stable performance over life
- Low capacitance
- High insulation resistance
- RoHS-compatible

**Applications**

- Branch Exchange (MDF)
- Line protection
- Station protection

**Electrical specifications**

DC spark-over voltage <sup>1) 2) 4)</sup>	550 ... 800	V
Impulse spark-over voltage <sup>4)</sup>		
at 100 V/μs   - for 99 % of measured values	< 1100	V
- typical values of distribution	< 1000	V
at 1 kV/μs    - for 99 % of measured values	< 1350	V
- typical values of distribution	< 1100	V
Service life		
10 operations                      50 Hz, 1 s <sup>5)</sup>	20	A
1 operation                        50 Hz, 0.18 s (9 cycles) <sup>5)</sup>	130	A
10 operations [5x (+) & 5x (-)] 8/20 μs <sup>5)</sup>	20	kA
1 operation                        8/20 μs <sup>5)</sup>	40	kA
1 operation                        10/350 μs <sup>5)</sup>	5	kA
Insulation resistance at 100 V <sub>DC</sub> <sup>4)</sup>	> 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	~ 3.5	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, blue negative	<b>EPCOS</b> <b>650 YY O</b> 650    - Nominal voltage YY     - Year of production O      - Non radioactive	

<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

Tested in accordance to RUS PE-80 and IEEE C62.31



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