

Surge arrester

3-electrode arrester

Series/Type: T63-C650X

Ordering code: B88069X6990B102

Version/Date: Issue 03 / 2011-02-07

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3-electrode arrester T63-C650X

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 1) 2) 4)			550 800	V
Impulse spark-over v	oltage 4)			
at 100 V/µs - for 99 % of meas - typical values of			< 1100 < 1000	V V
at 1 kV/μs	for 99 % of measured valuestypical values of distribution		< 1350 < 1100	V
Service life				
10 operation	s 5	50 Hz, 1 s ⁵⁾	20	Α
1 operation		50 Hz, 0.18 s (9 cycles) ⁵⁾	130	Α
10 operations [5× (+) & 5× (–)] 8/20 μs ⁵⁾			20	kA
1 operation $8/20 \mu s^{5)}$		40	kA	
1 operation		10/350 µs ^{₅)}	5	kA
Insulation resistance at 100 V _{DC} ⁴⁾			> 10	$G\Omega$
Capacitance at 1 MHz ⁴⁾			< 1.5	pF
Transverse delay time 3)			< 0.2	μs
Arc voltage at 1 A			~ 35	V
Glow to arc transition current			~ 1	Α
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		EPCOS 650 YY O 650 - Nominal voltage YY - Year of production O - Non radioactive		

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

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

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²⁾ In ionized mode

³⁾ Test according to ITU-T Rec. K.12

⁴⁾ Tip or ring electrode to center electrode

Total current through center electrode, half value through tip respectively ring electrode.

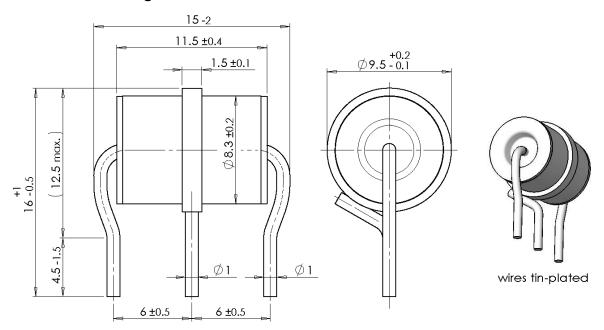
Terms in accordance with ITU-T Rec. K.12 and DIN 57845/VDE0845



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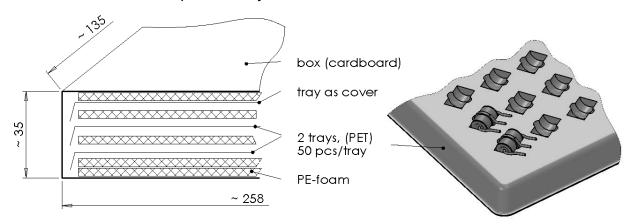
3-electrode arrester T63-C650X

Dimensional drawing in mm



Ordering code and packing advice

B88069X6990**B102** = 100 pcs on 2 trays



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 lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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