

## Surge arrester

3-electrode arrester

Version:

 Series/Type:
 T87-A350X

 Ordering code:
 B88069X8850B502

 Date:
 2016-02-16

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T87-A350X

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## Surge arrester

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

Features

- Standard size
- Very fast response time
- Very high current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- RoHS-compatible

**Electrical specifications** 

#### Applications

- Base stations
- Line protection
- Station protection

Certifications		UL 497B (E163070)	<b>FL</b> ®
Marking, red negative		EPCOS350 YY O350350YYYYYear of productionOONon radioactive	
Climatic category (IEC 60068-1)		40/090/21	
Operation and storage temperature		-40 +90	°C
Weight		~ 2	g
Glow to arc transition current Glow voltage		< 1 ~ 200	A V
Arc voltage at 1 A		~ 35	V
Transverse delay time <sup>5)</sup>		< 0.2	μs
Capacitance at 1 MHz <sup>3)</sup>		< 1.5	pF
Insulation resistance at 100 $V_{DC}^{3)}$		> 10	GΩ
300 operations	10/1000 µs <sup>4)</sup>	200	A
1 operation	0/20 μs <sup>4)</sup>	2	kA
10 operations [5× (+) & 5× (–)] 1 operation	8/20 µs <sup>4)</sup>	15	кА kA
1 operation	50 Hz; 0.18 s (9 cycl.) <sup>4)</sup> 8/20 μs <sup>4)</sup>	40 10	A kA
10 operations	50 Hz; 1 s <sup>4)</sup>	10	A
Service life			
- typical values of distribution		< 800	v
<ul> <li>typical values of distribution</li> <li>at 1 kV/µs</li> <li>for 99% of measured values</li> </ul>		< 600 < 900	V V
at 100 V/µs - for 99% of measured values		< 700	V
Impulse spark-over voltage <sup>3)</sup>		420	v
Min. Max.		280 420	V V
Tolerance		±20	%
DC spark-over voltage <sup>1) 2) 3)</sup>		350	V

Remarks on next page

PPD AB PD / PPD AB PM

2016-02-16

# **②TDK**

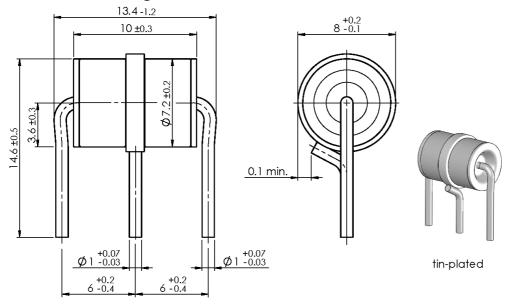
#### Surge arrester

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

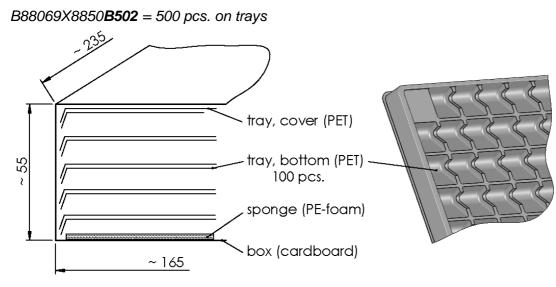
- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- <sup>2)</sup> In ionized mode
- <sup>3)</sup> Tip or ring electrode to center electrode
- <sup>4)</sup> Total current through center electrode, half value through tip respectively ring electrode.
- <sup>5)</sup> Test according to ITU-T Rec. K.12

Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

#### Dimensional drawing in mm



### Ordering code and packing advice



PPD AB PD / PPD AB PM



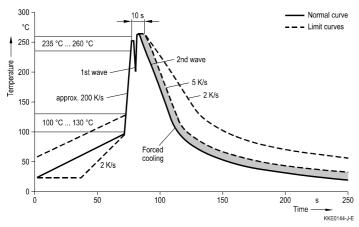
#### Surge arrester

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

B88069X8850B502 T87-A350X

#### Soldering parameter

#### Wave soldering



Wave profile features	Pb-free assembly
Solder	Sn 95.5 / Ag 3.8 / Cu 0.7
Solder bath temperature	263 (±3) °C
Dwell time	< 3 s

Soldering profile applied to a single soldering process.

#### **Cautions and warnings**

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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