

# Surge arrester

2-electrode arrester

Series/Type: Ordering code:	A81-A350X B88069X2380****	
Date:	2019-06-27	
Version:	09	

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A81-A350X

B88069X2380\*\*\*\*

# Surge arrester

# 2-electrode arrester

# Features

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

# **Electrical specifications**

# Applications

- Branch exchange (MDF)
- Line protection
- Subscriber protection

Electrical specifications		250	V
DC spark-over voltage <sup>1) 2)</sup> Tolerance		350 ±20	V %
Min.		280	V
Max.		420	v
Impulse spark-over voltage			
at 100 V/µs - for 99% of measured values		< 700	V
- typical	values of distribution	< 650	V
at 1 kV/µs - for 99% of measured values		< 900	V
- typical values of distribution		< 800	V
Service life			
10 operations	50 Hz, 1 s	20	A
1 operation	50 Hz, 0.18 s (9 cycles)	100	A
10 operations	8/20 µs	20	kA
1 operation	8/20 µs	25	kA
1 operation	10/350 µs	2.5	kA
300 operations	10/1000 µs	200	A
Insulation resistance at 100 $V_{\text{DC}}$	;	> 1	GΩ
Capacitance at 1 MHz		< 1.5	pF
Arc voltage at 1 A		~ 15	V
Glow to arc transition current		< 0.5	А
Glow voltage		~ 60	V
AC withstand voltage (1 min)		150	V
Weight		~ 2.5	g
Operation and storage temperature		-40 +125	°C
Climatic category (IEC 60068-1	)	40/125/21	
Marking, blue negative		EPCOS 350 YY O350- Nominal voltageYY- Year of productionO- Non radioactive	
Certification		UL 497B (E16307	0) 🔊

Remarks on next page

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#### Surge arrester

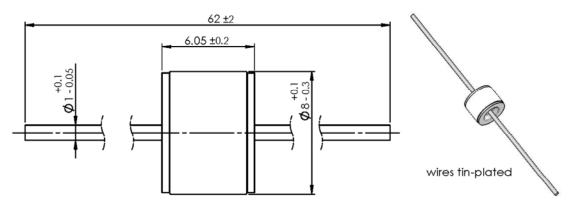
# 2-electrode arrester

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

<sup>2)</sup> In ionized mode

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

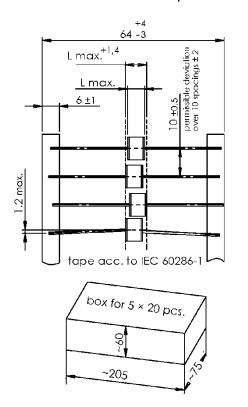
#### Dimensional drawing in mm



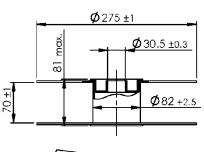
# Ordering codes and packing advices

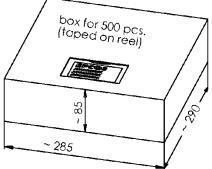
B88069X2380**S102** = 100 pcs. on 5 taped stripes

B88069X2380**T502** = 500 pcs. on tape & reel



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# Surge arrester

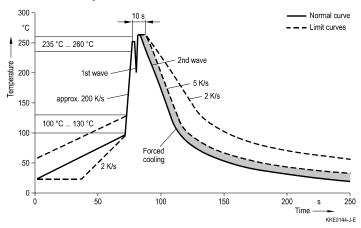
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### Soldering parameter

#### 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.
- 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.
- If the contacts of the surge arresters are defective, current load can cause sparks and loud noises.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.

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Release 2018-10