



## Surge arrester

### 2-electrode arrester

|                       |                        |
|-----------------------|------------------------|
| <b>Series/Type:</b>   | <b>A80-C90X</b>        |
| <b>Ordering code:</b> | <b>B88069X1410****</b> |
| <b>Date:</b>          | <b>2019-04-15</b>      |
| <b>Version:</b>       | <b>09</b>              |

## Surge arrester

B88069X1410\*\*\*\*

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A80-C90X

### Features

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

### Applications

- Branch exchange
- Line protection
- Subscriber protection
- Alarm system

### Electrical specifications

|                                             |                                                                                                |    |
|---------------------------------------------|------------------------------------------------------------------------------------------------|----|
| DC spark-over voltage <sup>1) 2)</sup>      | 90                                                                                             | V  |
| Tolerance                                   | ±20                                                                                            | %  |
| Min.                                        | 72                                                                                             | V  |
| Max.                                        | 108                                                                                            | V  |
| Impulse spark-over voltage                  |                                                                                                |    |
| at 100 V/μs - for 99% of measured values    | < 500                                                                                          | V  |
| - typical values of distribution            | < 450                                                                                          | V  |
| at 1 kV/μs - for 99% of measured values     | < 600                                                                                          | V  |
| - typical values of distribution            | < 550                                                                                          | 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                         | 30                                                                                             | kA |
| 5 operations 10/250 μs                      | 1                                                                                              | kA |
| 2 operations 10/350 μs                      | 2.5                                                                                            | kA |
| 1 operation 10/350 μs                       | 5                                                                                              | kA |
| 300 operations 10/1000 μs                   | 200                                                                                            | A  |
| Insulation resistance at 50 V <sub>DC</sub> | > 10                                                                                           | GΩ |
| Capacitance at 1 MHz                        | < 1.5                                                                                          | pF |
| Arc voltage at 1 A                          | ~ 10                                                                                           | V  |
| Glow to arc transition current              | < 0.5                                                                                          | A  |
| Glow voltage                                | ~ 60                                                                                           | V  |
| Weight                                      | ~ 1                                                                                            | g  |
| Operation and storage temperature           | -40 ... +125                                                                                   | °C |
| Climatic category (IEC 60068-1)             | 40/125/21                                                                                      |    |
| Marking, blue negative                      | <b>EPCOS 90 YY O</b><br>90 - Nominal voltage<br>YY - Year of production<br>O - Non radioactive |    |

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### Certification

UL 497B (E163070)

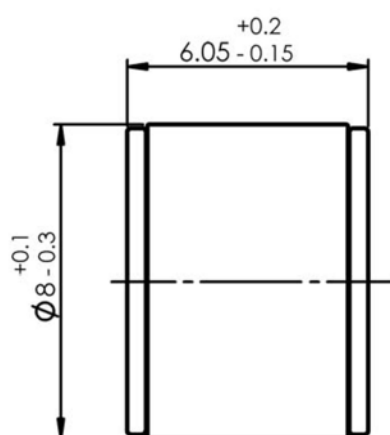


1) At delivery AQL 0.65 level II, DIN ISO 2859

2) In ionized mode

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

### Dimensional drawing in mm

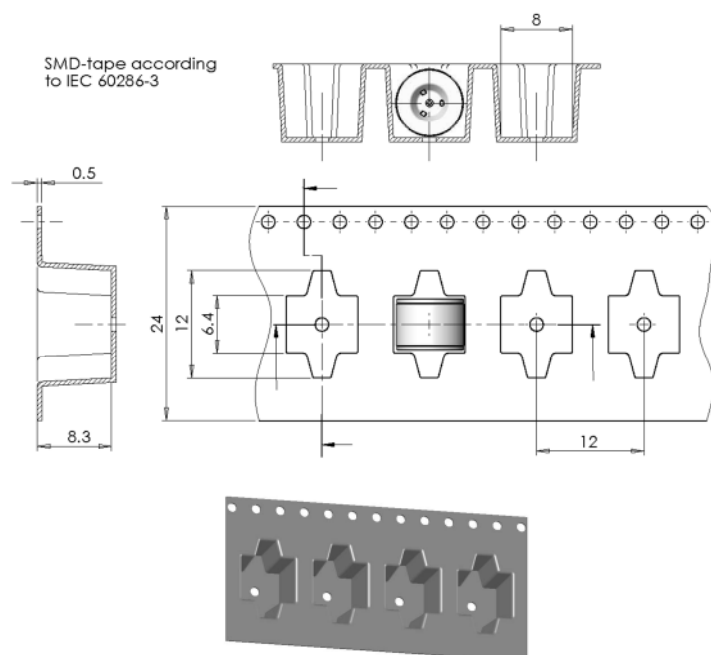
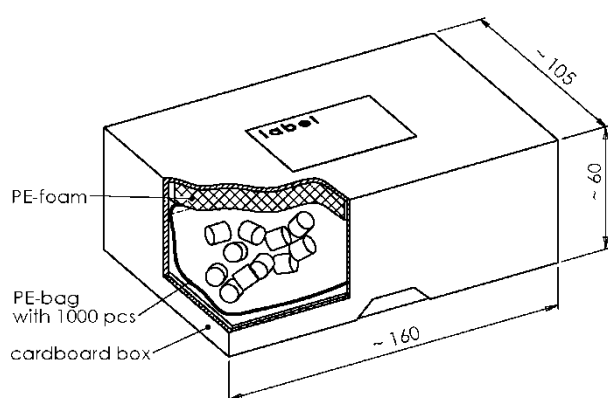


nickel plated

### Ordering code and packing advice

B88069X1410C103 = 1000 pcs. in container

B88069X1410T602 = 600 pcs. on SMD-tape & reel



### 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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## Important notes

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