



## Surge arrester

### 2-electrode arrester

**Series/Type:** V10-H30X  
**Ordering code:** B88069X4330C251  
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## Surge arrester

B88069X4330C251

## 2-electrode arrester

V10-H30X

### Features

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

### Applications

- Industry

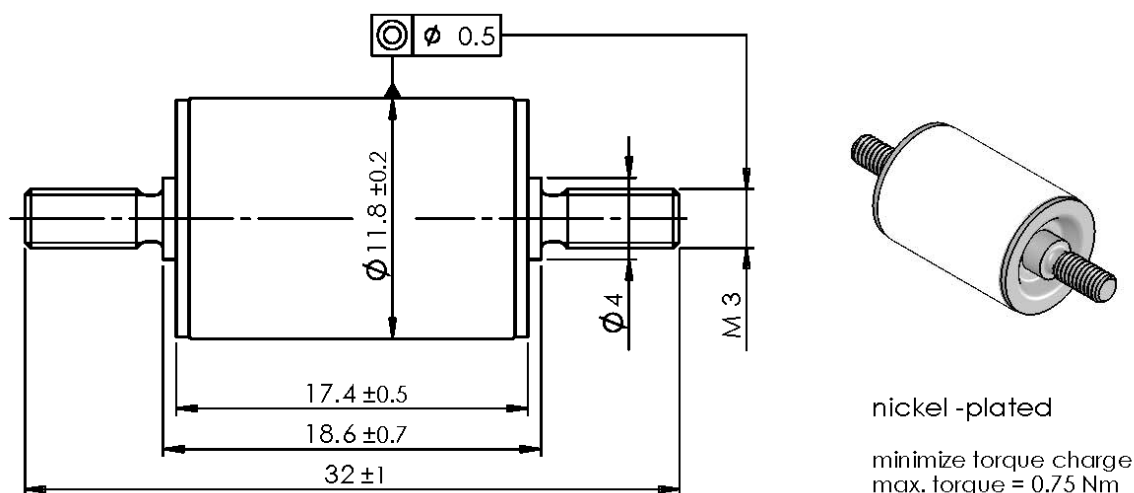
### Electrical specifications

|                                                                                |                                                                                                              |        |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------|
| DC spark-over voltage <sup>1) 2)</sup>                                         | 3000<br>± 25                                                                                                 | V<br>% |
| Impulse spark-over voltage                                                     |                                                                                                              |        |
| at 100 V/μs   - for 99% of measured values<br>- typical values of distribution | < 4500<br>< 4300                                                                                             | V<br>V |
| at 1 kV/μs    - for 99% of measured values<br>- typical values of distribution | < 5000<br>< 4500                                                                                             | V<br>V |
| Service life                                                                   |                                                                                                              |        |
| 10 operations   50 Hz, 1 s                                                     | 20                                                                                                           | A      |
| 1 operation    50 Hz, 0.18 s (9 cycles)                                        | 120                                                                                                          | A      |
| 10 operations   8/20 μs                                                        | 20                                                                                                           | kA     |
| 1 operation    8/20 μs                                                         | 30                                                                                                           | kA     |
| Insulation resistance at 100 V <sub>DC</sub>                                   | > 10                                                                                                         | GΩ     |
| Capacitance at 1 MHz                                                           | < 1.5                                                                                                        | pF     |
| Arc voltage at 1 A                                                             | ~ 30                                                                                                         | V      |
| Glow to arc transition current                                                 | ~ 1                                                                                                          | A      |
| Glow voltage                                                                   | ~ 200                                                                                                        | V      |
| Weight                                                                         | ~ 8                                                                                                          | g      |
| Operation and storage temperature                                              | -40 ... +90                                                                                                  | °C     |
| Climatic category (IEC 60068-1)                                                | 40/ 90/ 21                                                                                                   |        |
| Marking, black positive                                                        | <b>EPCOS 3000 YY O</b><br>3000   - Nominal voltage<br>YY    - Year of production<br>O      - Non radioactive |        |

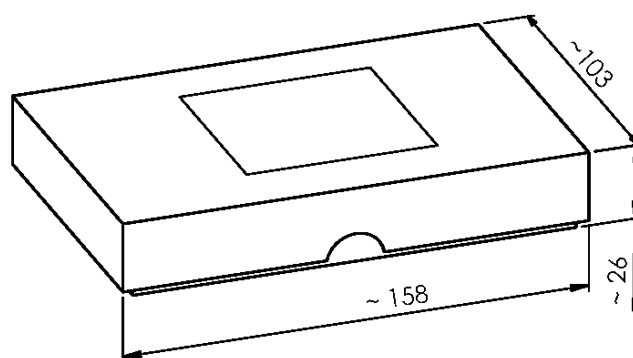
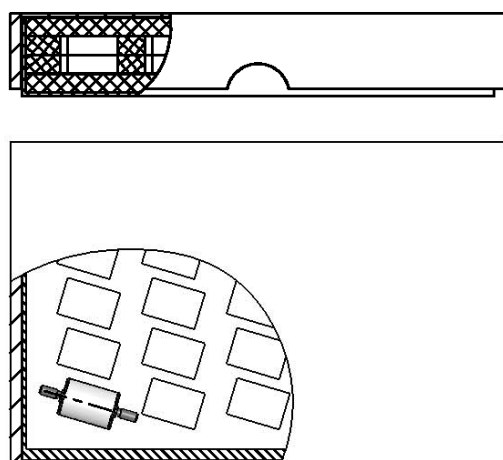
<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

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

Terms in accordance with ITU-T Rec. K12; IEC 61663-2 and IEC 61643-311.

**Dimensional drawing in mm**

**Ordering code and packing advice**

**B88069X4330C251** = 25 pcs. on foam tray



cardboard box with PE-foam

**Cautions and warnings**

- Surge arresters may become hot in the event of longer periods of current stress (danger of burning).
- Surge arresters must not be operated directly in power supply networks.
- Electromagnetic fields and ionizing radiation may affect the electrical characteristics of the arresters. The impact of this kind of disturbances (inductive and capacitive comply, field distortion by nearby conductors) has to be avoided by circuit design.
- 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.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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