

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

**Part Number:** B88069X3060C253  
**Manufacturer:** TDK  
**Package:** Bulk  
**Availability:** Please confirm with sales

**Product Page:**

<https://antrexco.com/product/details/tdk/b88069x3060c253.html>

**Request a Quote:**

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New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

**Note:**

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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## Surge arrester

### 3-electrode arrester

**Series/Type:** T30-A230X  
**Ordering code:** B88069X3060C253  
**Version/Date:** Issue 06 / 2007-03-29

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# Surge arrester

B88069X3060C253

## 3-electrode arrester

T30-A230X

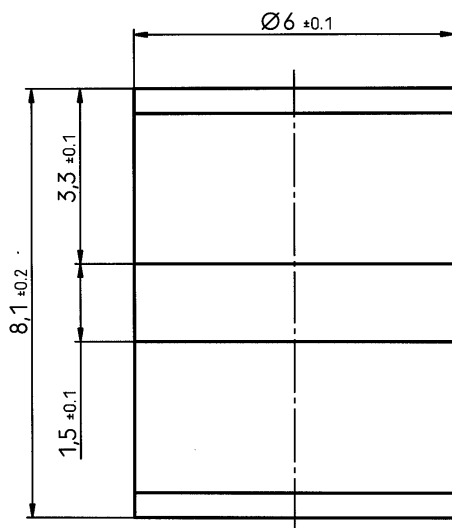
| Features                                                                                                                                                                                                                                                                   | Applications                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Very small size</li> <li>Extremely fast response time</li> <li>High current rating</li> <li>Stable performance over life</li> <li>Extremely low capacitance</li> <li>High insulation resistance</li> <li>RoHS-compatible</li> </ul> | <ul style="list-style-type: none"> <li>Line protection</li> <li>Station protection</li> <li>Base stations</li> </ul> |

## Electrical specifications

|                                                            |                                                                                                            |        |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------|
| DC spark-over voltage <sup>1) 2) 4)</sup>                  | 230<br>± 20                                                                                                | V<br>% |
| Impulse spark-over voltage <sup>4)</sup>                   |                                                                                                            |        |
| at 100 V/μs - for 99 % of measured values                  | < 400                                                                                                      | V      |
| - typical values of distribution                           | < 350                                                                                                      | V      |
| at 1 kV/μs - for 99 % of measured values                   | < 450                                                                                                      | V      |
| - typical values of distribution                           | < 420                                                                                                      | V      |
| Service life                                               |                                                                                                            |        |
| 10 operations 50 Hz; 1 s <sup>5)</sup>                     | 10                                                                                                         | A      |
| 1 operation 50 Hz; 0.18 s (9 cycles) <sup>5)</sup>         | 30                                                                                                         | A      |
| 10 operations [5x (+) & 5x (-)] 8/20 μs <sup>5)</sup>      | 10                                                                                                         | kA     |
| 1 operation 8/20 μs <sup>5)</sup>                          | 10                                                                                                         | kA     |
| 1 operation 10/350 μs <sup>5)</sup>                        | 5                                                                                                          | kA     |
| Insulation resistance at 100 V <sub>dc</sub> <sup>4)</sup> | > 10                                                                                                       | GΩ     |
| Capacitance at 1 MHz <sup>4)</sup>                         | < 1.5                                                                                                      | pF     |
| Transverse delay time <sup>3)</sup>                        | < 0.2                                                                                                      | μs     |
| Arc voltage at 1 A                                         | ~ 30                                                                                                       | V      |
| Glow to arc transition current                             | ~ 1                                                                                                        | A      |
| Glow voltage                                               | ~ 200                                                                                                      | V      |
| Weight                                                     | ~ 1.4                                                                                                      | g      |
| Operation and storage temperature                          | -40 ... +90                                                                                                | °C     |
| Climatic category (IEC 60068-1)                            | 40/ 90/ 21                                                                                                 |        |
| Marking, blue negative                                     | <b>EPCOS</b><br><b>230 YY O</b><br>230 - Nominal voltage<br>YY - Year of production<br>O - Non radioactive |        |

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
  - 2) In ionized mode
  - 3) Test according to ITU-T Rec. K.12
  - 4) Tip or ring electrode to center electrode
  - 5) 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

## Dimensional drawing



*Not to scale*

*Dimensions in mm*

tin-plated

*Non controlled document*

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

## Important notes

The following applies to all products named in this publication:

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