

Circuit Breaker for Equipment thermal, Threaded-neck type, 1 pole



T9-211: Threaded neck with nut PA66

Approvals and Compliances

Description

- Threaded neck type
- Thermal circuit breaker
- 1-pole
- On request available with elevated glow-wire ratings
- Quick connect terminals 6.3 x 0.8 mm

Unique Selling Proposition

- Reset type
- Cycling trip-free release
- Compact design
- Different mounting possibilities

Applications

- Power supplies
- Uninterruptible power supply
- Power tools
- Industrial appliances
- HVAC
- Household appliances

Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Product News](#)

Technical Data

| | |
|------------------------------------|--|
| Rated Voltage AC | 240 V, 50 / 60 Hz |
| Rated Voltage DC | 48 / 32 V, see approvals |
| Rated current | 3-16 A, see approbations |
| Conditional short circuit capacity | IEC: Inc, PC1, AC 240 V: 2 kA UL / CSA: SC, AC 240 V DC 48 / 32 V: 2 kA, C1 |
| Degree of protection front side | IP 40 |
| Endurance minimum | IEC: 200% I _r , cos φ 0.6: min. 50 switching cycles |
| Endurance typical | 3-8 A: 150% I _r , cos φ 0.9: 2500 switching cycles 10-16 A: 150% I _r , cos φ 0.9: 6000 switching cycles |
| Dielectric Strength | 1500 VAC |
| Insulation Resistance | 500 VDC > 1000 MΩ |

| | |
|---------------------|------------------------|
| Ambient temperature | 3 A: -5 °C to 60 °C |
| | 4 A: -5°C to 50 °C |
| | 5-16 A: -5 °C to 60 °C |
| Weight | 9 - 13 g |




Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

Approvals


The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: T9

| Approval Logo | Certificates | Certification Body | Description |
|---|-------------------------------|--------------------|-------------------------|
|  | VDE Approvals | VDE | VDE Certificate Number: |
|  | UL Approvals | UL | UL File Number: |
|  | CQC Approvals | CQC | CCC File Number: |





Application standards

Application standards where the product can be used

| Organization | Design | Standard | Description |
|--|--------------------------------|--------------|---|
|  | Designed for applications acc. | IEC/UL 60950 | IEC 60950-1 includes the basic requirements for the safety of information technology equipment. |

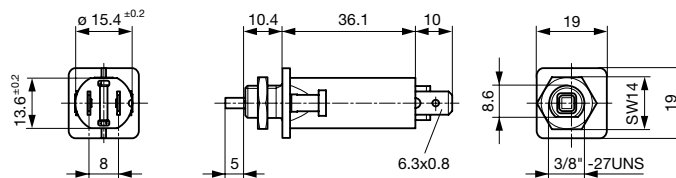
Compliances

The product complies with following Guide Lines

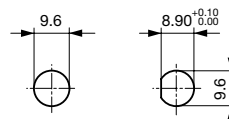
| Identification | Details | Initiator | Description |
|--|--|-------------|---|
|  | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
|  | RoHS | SCHURTER AG | EU Directive RoHS 2011/65/EU |
|  | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
|  | REACH | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

Dimension [mm]

T9-211/311

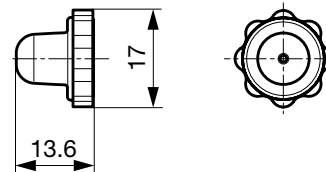
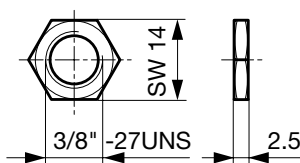






Panel thickness $s = 0.8 - 5.5$ mm



Hexagonal nut TZZ12 / TZZ51

Cover TZZ31 für IP65 optional, see accessory

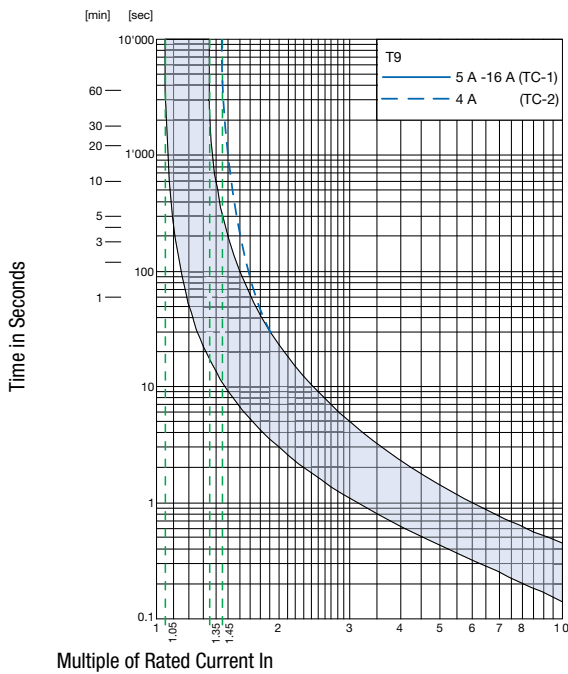


| Approval | | Rated current | Rated voltage AC | Rated voltage DC |
|--|--------------|-----------------------|------------------|------------------|
|  | UL 1077 | 3 - 12 A 14 - 16 A | 240 V 240 V | 48 V 32 V |
|  | CSA 22.2 235 | 3 - 12 A 14 - 16 A | 240 V 240 V | 48 V 32 V |
|  | IEC 60934 | 3 - 12 A 14 - 16 A | 240 V 240 V | 48 V 32 V |
|  | GB 17701 | 3 - 12 A 14 - 16 A | 240 V 240 V | 48 V 32 V |

Typical internal resistance

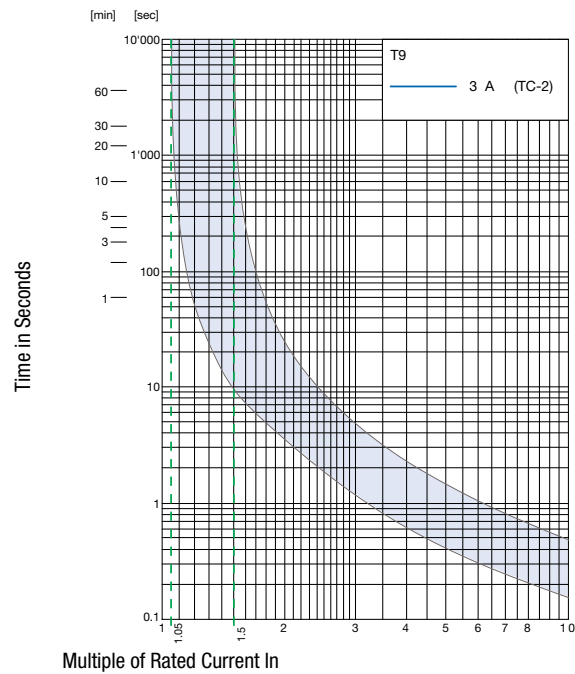
| Rated Current [A] | Internal Resistance [mΩ] |
|-------------------|--------------------------|
| 3 | 65.0 |
| 4 | 21.6 |
| 5 | 23.6 |
| 6 | 16.3 |
| 7 | 15.3 |
| 8 | 12.9 |
| 10 | 7.3 |
| 12 | 7.0 |
| 14 | 4.8 |
| 15 | 4.3 |
| 16 | 3.9 |

Time-Current-Curves



Multiple of Rated Current In

Reference Temperature +23°



Multiple of Rated Current In

Reference Temperature +23°

Effect of ambient temperature

The units are calibrated for an ambient temperature of +23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

| Ambient temperature [°C] | Correction factor |
|--------------------------|-------------------|
| -5 | 0,85 |
| +10 | 0,95 |
| +23 | 1,00 |
| +40 | 1,08 |
| +60 | 1,21 |

Example: Rated current = 10 A; Environmental temperature = 60 °C; --> Correction factor = 1.21; Resulting current = 12.1 A --> Fount to next higher rated current: 13 A

Accessory

| Part Number | Type | Resources / Description |
|-------------|-----------|--|
| 4404.0039 | TZZ31 | Protection cover for IP 65 |
| 4400.0420 | TZZ11 | Knurled nut nickel-plated |
| 4400.0559 | TZZ11-414 | Knurled nut black |
| 4400.0425 | TZZ12 | Additional hexagonal nut nickel-plated |
| 4404.0072 | TZZ51 | Additional hexagonal nut PA 66 |

Variants

| Mounting | Front printing | Rated current | Order Number |
|---------------------|------------------------------------|---------------|--------------|
| Threaded neck short | Rated current not printed on front | 3.0 A | 4404.0084 |
| Threaded neck short | Rated current not printed on front | 4.0 A | 4404.0083 |
| Threaded neck short | Rated current not printed on front | 5.0 A | 4404.0082 |
| Threaded neck short | Rated current not printed on front | 6.0 | 4404.0081 |
| Threaded neck short | Rated current not printed on front | 7.0 A | 4404.0080 |
| Threaded neck short | Rated current not printed on front | 8.0 A | 4404.0079 |
| Threaded neck short | Rated current not printed on front | 10.0 A | 4404.0078 |
| Threaded neck short | Rated current not printed on front | 12.0 A | 4404.0077 |
| Threaded neck short | Rated current not printed on front | 14.0 A | 4404.0076 |
| Threaded neck short | Rated current not printed on front | 15.0 A | 4404.0075 |
| Threaded neck short | Rated current not printed on front | 16.0 A | 4404.0074 |

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

Packaging Unit 100 Pcs