



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Circuit Breaker for Equipment thermal, Snap-in type, Fuseholder style, 1 pole



See below:

**Approvals and Compliances**

**Description**

- Snap-in type from front side (0.8...2.0mm)
- 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<br><br>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 <sub>r</sub> , cos φ 0.6: min. 50 switching cycles   |
| Endurance typical                  | 3-8 A: 150% I <sub>r</sub> , cos φ 0.9: 2500 switching cycles<br>10-16 A: 150% I <sub>r</sub> , 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                              |
|---------------|-------------------------------|--------------------|--|
|               | <a href="#">VDE Approvals</a> | VDE                | VDE Certificate Number: 40038016         |
|               | <a href="#">UL Approvals</a>  | UL                 | UL File Number: E71572                   |
|               | <a href="#">CQC Approvals</a> | CQC                | CCC Certificate Number: 2013010307617688 |

## Product standards

Product standards that are referenced

| Organization   | Design                | Standard          | Description   |
|--|-----------------------|-------------------|---|
|  | Designed according to | IEC 60934         | Circuit-breakers for equipment (CBE)                                  |
|  | Designed according to | UL 1077           | Standard for Supplementary Protectors for Use in Electrical Equipment |
|  | Designed according to | CSA C22.2 No. 235 | Supplementary Protectors  |
|  | Designed according to | GB 17701          | Circuit-breaker for equipment   |





## 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. |

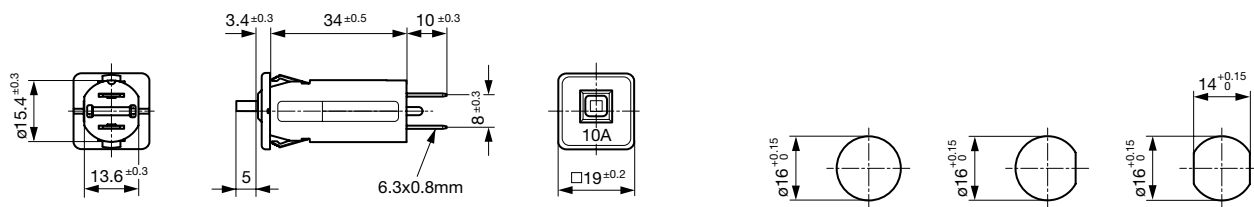
## Compliances

The product complies with following Guide Lines





| Identification   | Details                                      | Initiator   | Description   |
|--|--|-------------|---|
|    | <a href="#">CE declaration of conformity</a> | 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]

T9-611



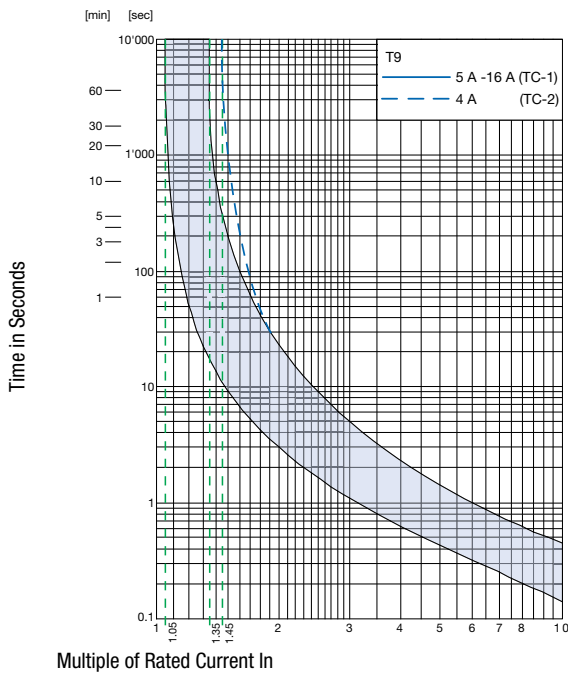
Panel thickness  $s = 0.8 - 2.0 \text{ mm}$

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

**Typical internal resistance**

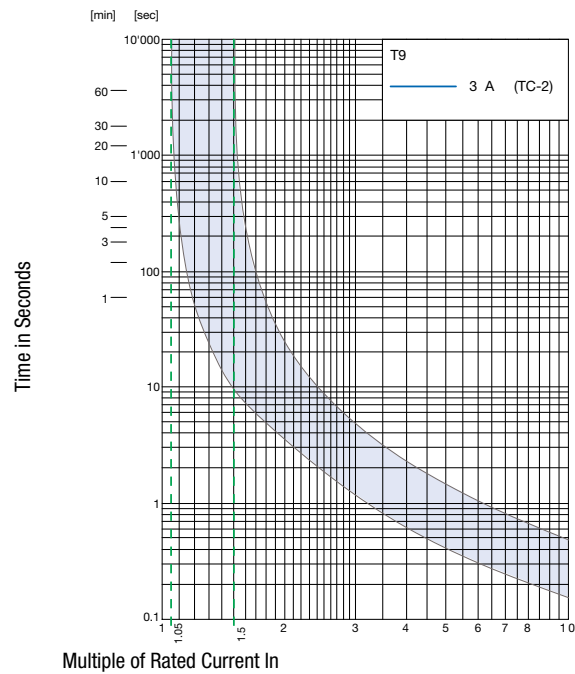
| Rated Current [A] | Internal Resistance [mΩ] |
|-------------------|--------------------------|
| 3                 | 65.0                     |
| 4                 | 21.6                     |
| 5                 | 23.6                     |
| 6                 | 16.3                     |
| 7                 | 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 |
|----------------------------------|--|---------------|--------------|
| Snap-in mounting from front side | Rated current printed on front             | 3.0 A         | 4404.0018    |
| Snap-in mounting from front side | Rated current printed on front             | 4.0 A         | 4404.0001    |
| Snap-in mounting from front side | Rated current printed on front             | 5.0 A         | 4404.0007    |
| Snap-in mounting from front side | Rated current printed on front             | 6.0           | 4404.0002    |
| Snap-in mounting from front side | Rated current printed on front             | 7.0 A         | 4404.0009    |
| Snap-in mounting from front side | Rated current printed on front             | 8.0 A         | 4404.0003    |
| Snap-in mounting from front side | Rated current printed on front             | 10.0 A        | 4404.0004    |
| Snap-in mounting from front side | Rated current printed on front             | 12.0 A        | 4404.0005    |
| Snap-in mounting from front side | Rated current printed on front             | 14.0 A        | 4404.0008    |
| Snap-in mounting from front side | Rated current printed on front             | 15.0 A        | 4404.0010    |
| Snap-in mounting from front side | Rated current printed on front             | 16.0 A        | 4404.0006    |
| Snap-in mounting from front side | Rated current printed on front 90° shifted | 4.0 A         | 4404.0066    |
| Snap-in mounting from front side | Rated current printed on front 90° shifted | 5.0 A         | 4404.0067    |
| Snap-in mounting from front side | Rated current printed on front 90° shifted | 6.0           | 4404.0068    |
| Snap-in mounting from front side | Rated current printed on front 90° shifted | 8.0 A         | 4404.0069    |
| Snap-in mounting from front side | Rated current printed on front 90° shifted | 15.0 A        | 4404.0071    |
| Snap-in mounting from front side | Rated current not printed on front         | 3.0 A         | 4404.0088    |
| Snap-in mounting from front side | Rated current not printed on front         | 4.0 A         | 4404.0089    |
| Snap-in mounting from front side | Rated current not printed on front         | 5.0 A         | 4404.0090    |
| Snap-in mounting from front side | Rated current not printed on front         | 6.0           | 4404.0091    |
| Snap-in mounting from front side | Rated current not printed on front         | 7.0 A         | 4404.0065    |
| Snap-in mounting from front side | Rated current not printed on front         | 8.0 A         | 4404.0092    |
| Snap-in mounting from front side | Rated current not printed on front         | 10.0 A        | 4404.0093    |
| Snap-in mounting from front side | Rated current not printed on front         | 12.0 A        | 4404.0063    |
| Snap-in mounting from front side | Rated current not printed on front         | 14.0 A        | 4404.0094    |
| Snap-in mounting from front side | Rated current not printed on front         | 15.0 A        | 4404.0095    |
| Snap-in mounting from front side | Rated current not printed on front         | 16.0 A        | 4404.0087    |

 Most Popular.

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

**Packaging Unit** 100 Pcs