

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

**Technical Data**

Rated Voltage AC	240 VAC
Rated Voltage DC	48 / 32 VDC
Rated current	3-16 A, see approbations
Conditional short circuit capacity Inc	IEC 60934: PC1, AC 240 V: 2 kA
	UL / CSA: SC, AC 240 V DC 48 / 32 V: 2 kA, C1
Degree of protection front side	IP40
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 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

Allowable Operation Temp.	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](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

**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="#">CCC Approvals</a>	CCC	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.

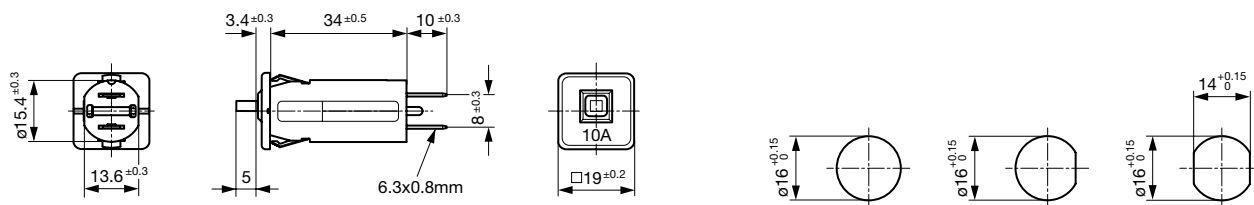
## Compliances

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	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	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



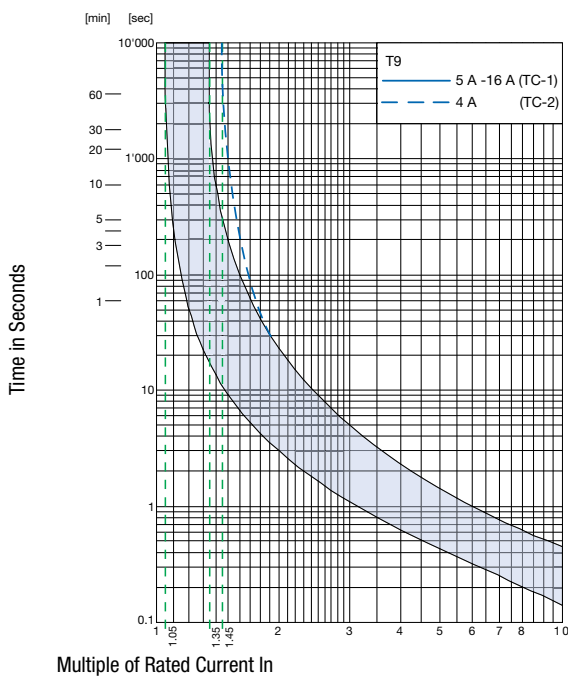
Panel thickness  $s = 0.8 - 2.0 \text{ mm}$

Approval		Rated current	Rated Voltage AC	Rated Voltage DC
	UL 1077	3 - 12 A 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 per pole**

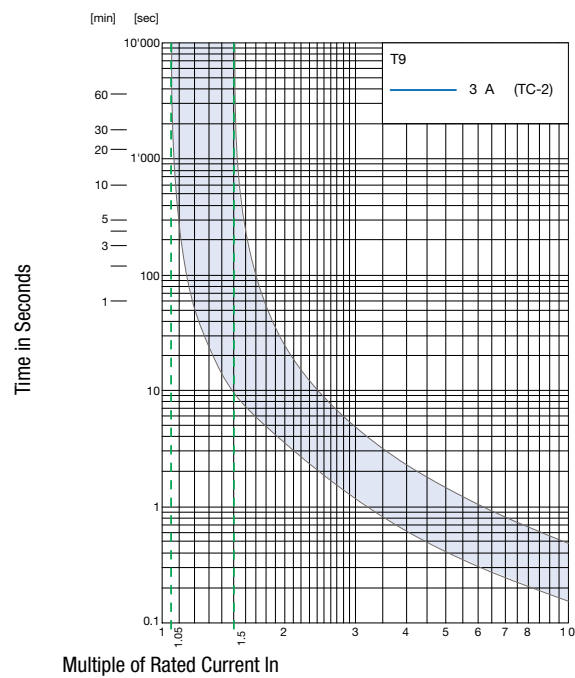
Rated Current [A]	Internal Resistance [mΩ]
3	65.0
4	21.6
5	23.6
6	16.3
7	15.3
8	12.9
10	7.3
12	7.0
14	4.8
15	4.3
16	3.9

**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 --> Found to next higher rated current: 13 A

## Variants

Mounting	Front printing	Rated current	Config. Code	
Snap-in mounting from front side	Rated current printed on front	3.0 A	T9-611P-3-[nv]	■
Snap-in mounting from front side	Rated current printed on front	4.0 A	T9-611P-4-[nv]	■
Snap-in mounting from front side	Rated current printed on front	5.0 A	T9-611P-5-[nv]	■
Snap-in mounting from front side	Rated current printed on front	6.0	T9-611P-6-[nv]	■
Snap-in mounting from front side	Rated current printed on front	7.0 A	T9-611P-7-[nv]	■
Snap-in mounting from front side	Rated current printed on front	8.0 A	T9-611P-8-[nv]	■
Snap-in mounting from front side	Rated current printed on front	10.0 A	T9-611P-10-[nv]	■
Snap-in mounting from front side	Rated current printed on front	12.0 A	T9-611P-12-[nv]	■
Snap-in mounting from front side	Rated current printed on front	14.0 A	T9-611P-14-[nv]	■
Snap-in mounting from front side	Rated current printed on front	15.0 A	T9-611P-15-[nv]	■
Snap-in mounting from front side	Rated current printed on front	16.0 A	T9-611P-16-[nv]	■
Snap-in mounting from front side	Rated current printed on front 90° shifted	4.0 A	T9-611P-4-[nv]	■
Snap-in mounting from front side	Rated current printed on front 90° shifted	8.0 A	T9-611P-8-[nv]	
Snap-in mounting from front side	Rated current printed on front 90° shifted	10.0 A	T9-611P-10-[nv]	■
Snap-in mounting from front side	Rated current printed on front 90° shifted	12.0 A	T9-611P-12-[nv]	
Snap-in mounting from front side	Rated current printed on front 90° shifted	16.0 A	T9-611P-16-[nv]	
Snap-in mounting from front side	Rated current not printed on front	3.0 A	T9-611C-3-[nv]	
Snap-in mounting from front side	Rated current not printed on front	4.0 A	T9-611C-4-[nv]	
Snap-in mounting from front side	Rated current not printed on front	5.0 A	T9-611C-5-[nv]	
Snap-in mounting from front side	Rated current not printed on front	6.0	T9-611C-6-[nv]	
Snap-in mounting from front side	Rated current not printed on front	7.0 A	T9-611C-7-[nv]	
Snap-in mounting from front side	Rated current not printed on front	8.0 A	T9-611C-8-[nv]	
Snap-in mounting from front side	Rated current not printed on front	10.0 A	T9-611C-10-[nv]	
Snap-in mounting from front side	Rated current not printed on front	12.0 A	T9-611C-12-[nv]	
Snap-in mounting from front side	Rated current not printed on front	14.0 A	T9-611C-14-[nv]	
Snap-in mounting from front side	Rated current not printed on front	15.0 A	T9-611C-15-[nv]	
Snap-in mounting from front side	Rated current not printed on front	16.0 A	T9-611C-16-[nv]	

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