

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 UL / CSA: SC, AC 240 V DC 48 / 32 V: 2 kA, C1
Degree of protection front side	IP 40
Endurance minimum	IEC: 200% Ir, cos φ 0.6: min. 50 switching cycles
Endurance typical	3-8 A: 150% Ir, cos φ 0.9: 2500 switching cycles 10-16 A: 150% Ir, 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 134485 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
	VDE Approvals	VDE	VDE Certificate Number: 40038016
	UL Approvals	UL	UL File Number: E71572
	CCC Approvals	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.

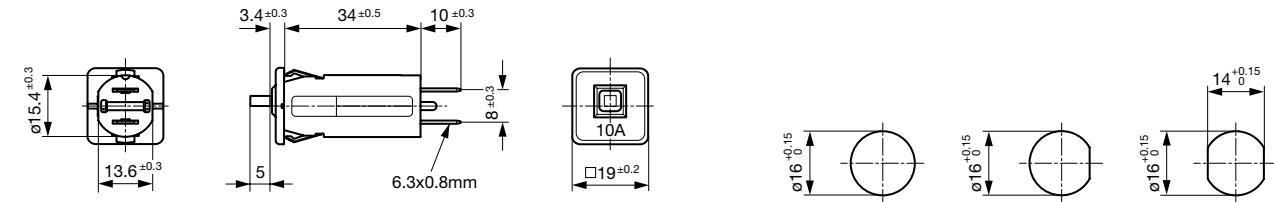
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	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]

T9-611



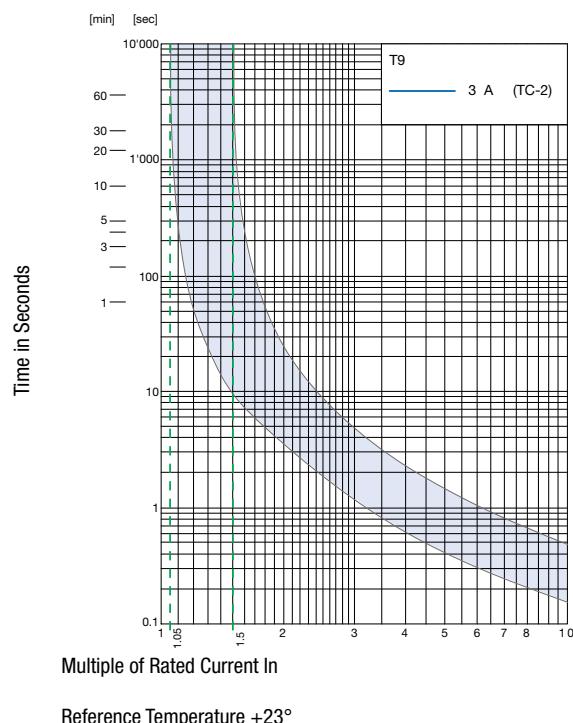
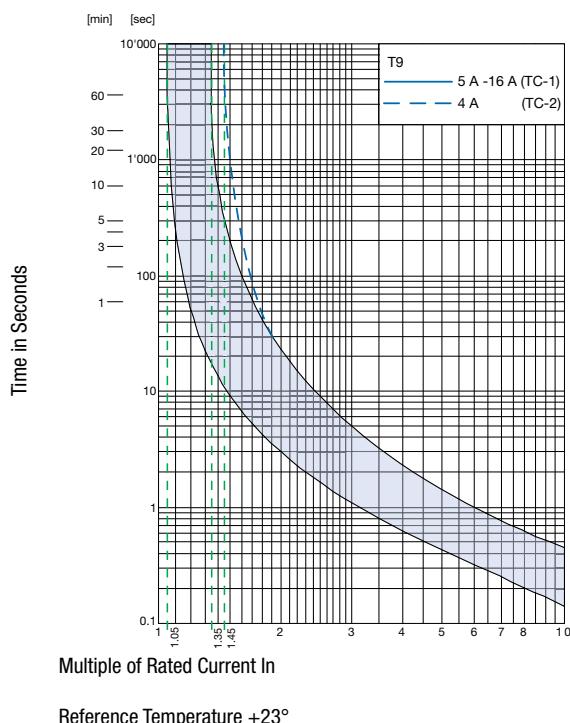
Panel thickness s = 0.8 - 2.0 mm

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

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



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 --> Round to next higher rated current: 13 A

Accessories

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

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