

Circuit Breaker for Equipment thermal, Snap-in type, Reset type with manual release, Quick connect terminals



See below:

### Approvals and Compliances

#### Description

- Snap-in version
- Thermal circuit breaker
- 1-pole
- Reset type with manual release
- Wide current range
- High breaking capacity
- Quick connect terminals 6.3 x 0.8 mm

#### Unique Selling Proposition

- Compact design
- Positively trip-free release
- Available with cover
- Different mounting possibilities

#### Applications

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

#### Weblinks

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

#### Technical Data

Rated Voltage AC	240/277 V: 50/60 Hz, see approbations
Rated Voltage DC	28 V
Rated current range AC	0.05 - 30 A
Conditional short circuit capacity	IEC: Inc, PC1, AC 240 V: 1 kA
Short circuit capacity Icn	at $I_n < 7 \text{ A/240 VAC}$ : 8 x $I_n$ at $I_n \geq 7 \text{ A/240 VAC}$ : 400 A AC/DC 28 V : 400 A
Degree of Protection	from front side IP 40 acc. to IEC 60529
Dielectric Strength	50Hz: 1.5kV Impulse 1.2/50 $\mu\text{s}$ : > 2.5kV
Insulation Resistance	500VDC > 100 M $\Omega$
Endurance typical	2 x $I_r$ : 3000 switching cycles
Endurance minimum	Reset type AC : 2 x $I_r$ , $\cos \phi$ 0.6 : DC : 2 x $I_r$ , L/R = 2 - 3 ms : 50 switching cycles

Overload	IEC: min. 40 trips @ 6 x $I_r$ , $\cos \phi$ 0.6 UL / CSA: min. 50 trips @ 1.5 x $I_r$ , $\cos \phi$ 0.75
Allowable Operation Temp.	-5 °C to 60 °C
Vibration Resistance	$\pm 1.5 \text{ mm}$ @ 10 - 60 Hz acc. to IEC 60068-2-6, test Fc 10 G @ 60 - 500 Hz acc. to IEC 60068-2-6, test Fc
Shock Resistance	100 G / 6ms acc. to IEC 60068-2-27, test Ea
Tripping Type	Thermal
Actuation Type	Reset type with manual release
Weight	ca. 10g





### 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: T13

Approval Logo	Certificates	Certification Body	Description
	<a href="#">VDE Approvals</a>	VDE	VDE Certificate Number: 123283
	<a href="#">UL Approvals</a>	UL	UL File Number: E71572
	<a href="#">CSA Approvals</a>	CSA	CSA Certification Record: LR 37712
	<a href="#">CQC Approvals</a>	CQC	CCC Certificate Number: 2012010307571195

**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**

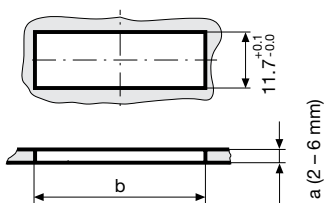
Application standards where the product can be used

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**

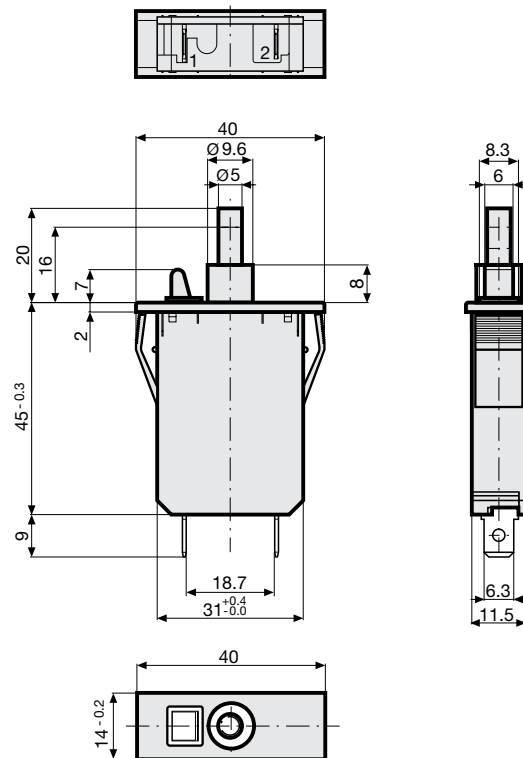
The product complies with following Guide Lines

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]**

a	b
2 - 4,5	35,6 <sup>+0.2</sup> <sub>0.0</sub>
5 - 6	36,5 <sup>+0.2</sup> <sub>0.0</sub>

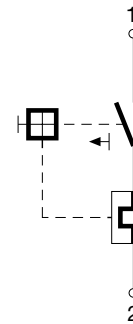
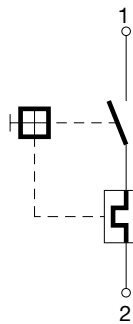
T13-671







## Diagrams

T13-...

T13-67.



Approval		Rated current	Rated Voltage AC	Rated Voltage DC
	UL 1077	0.05...30 A	277 V	28 V
	CSA C22.2 No. 235	0.05...30 A	277 V	28 V
	EN 60934	0.05...30 A	240 V	-
	GB 17701	0.05...30 A	240 V	-

**Typical internal resistance**

Rated Current [A]	Internal Resistance [ $\Omega$ ]
0.05	376.500
0.50	4.40
1.00	1.10
2.00	0.31
3.00	0.14
4.00	0.068
5.00	0.048
6.00	0.033
8.00	0.026
9.00	0.0125
10.00	0.0125
11.00	0.0085
12.00	0.0085
13.00	0.0085
14.00	0.007
15.00	0.007
16.00	0.007
17.00	0.0047
18.00	0.0047
19.00	0.0047
20.00	0.004
21.00	0.0035
22.00	0.003
23.00	0.003
24.00	0.003
25.00	0.003
26.00	0.0022
27.00	0.002
28.00	0.002
29.00	0.002
30.00	0.002

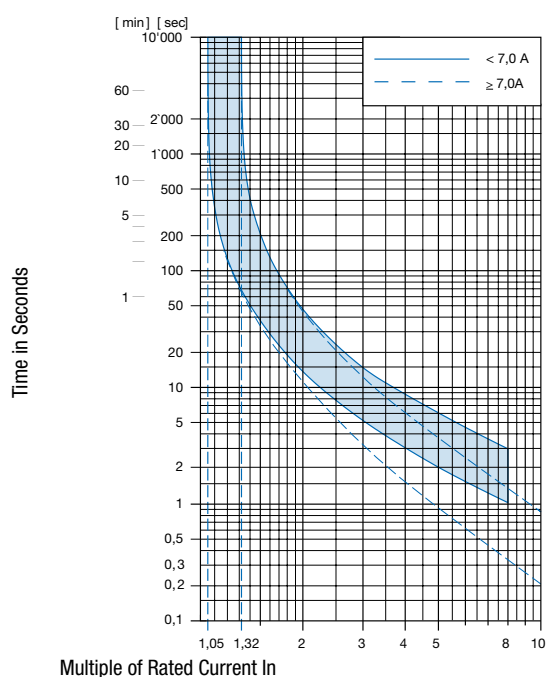
**Effect of ambient temperature**

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	0.88
0	0.90
10	0.95
23	1.00
30	1.05
40	1.10
50	1.18
60	1.26

Example: Rated current = 5 A, Environmental temperature = 40 °C, --> Correction factor = 1.1, Resulting current = 5.5 A --> Fount to next higher rated current: 6 A

## Time-Current-Curves



Reference Temperature +23°

## Config. Code

T13 - 1 2 3 B - 1.23

The characters are placeholders for the correspondingly keys of selections from the key tables.

T13 - **1** 2 3 B - 1.23 = Mounting

Mounting

Configuration  
key

Snap-in mounting from front side

6

T13 - 1 **2** 3 B - 1.23 = Actuation Type

Actuation Type

Configuration  
key

Reset type with manual release

7

T13 - 1 2 **3** B - 1.23 = Terminal

Terminal

Configuration  
key

Quick connect terminal 6.3x0.8mm

1

T13 - 1 2 3 **B** - 1.23 = Setting indication

Setting indication

Configuration  
key

Setting indication

R

T13 - 1 2 3 B - **1.23** = Rated current

Rated current

Configuration  
key

0.05 A

0.05

0.1 A

0.1

0.15 A

0.15

0.2 A

0.2

0.3 A

0.3

0.4 A

0.4

0.5 A

0.5

0.6 A

0.6

0.7 A

0.7

0.8 A

0.8

0.9 A

0.9

1.0

1

1.1 A

1.1

1.2 A

1.2

1.3 A

1.3

1.4 A

1.4

1.5 A

1.5

1.6 A

1.6

1.7 A

1.7

1.8 A

1.8

1.9 A

1.9

2.0 A

2

2.1 A

2.1

2.3 A

2.3

Other rated currents on request

Rated current	Configuration key	Rated current	Configuration key
2.5 A	2.5	9.5 A	9.5
2.8 A	2.8	10.0 A	10
3.0 A	3	11.0 A	11
3.3 A	3.3	12.0 A	12
3.5 A	3.5	13.0 A	13
4.0 A	4	14.0 A	14
4.5 A	4.5	15.0 A	15
5.0 A	5	16.0 A	16
5.5 A	5.5	17.0 A	17
6.0	6	18.0 A	18
6.5 A	6.5	19.0 A	19
7.0 A	7	20.0 A	20
7.5 A	7.5	22.0 A	22
8.0 A	8	25.0 A	25
8.5 A	8.5	28.0 A	28
9.0 A	9	30.0 A	30
Other rated currents on request		Other rated currents on request	

## Variants

Rated current	Setting indication	Config. Code	Order Number
30.0 A		T13-671-30	<a href="#">4411.0027</a>
10.0 A		T13-671-10	<a href="#">4411.0102</a>
1.0		T13-671-1	<a href="#">4411.0129</a>
2.0 A		T13-671-2	<a href="#">4411.0130</a>
3.0 A		T13-671-3	<a href="#">4411.0131</a>
0.2 A	●	T13-671R-0.2	<a href="#">4411.0230</a>

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

**Packaging Unit** 20 Pcs

## Accessories

### Description



[T-Line Accessories](#)  
Accessories to T-Line