

Circuit Breaker for Equipment thermal, Threaded neck type, Reset type, Quick connect terminals



## Approvals and Compliances

### Description

- Threaded neck type 8 mm
- Thermal circuit breaker
- 1-pole
- Reset type
- 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 tools
- Household Equipment
- Power supplies and chargers
- Industrial 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 V
Rated current range AC	0.05 - 16 A
Conditional short circuit capacity	IEC: Inc, PC1, AC 240 V: 2 kA
Short circuit capacity Icn	at $I_n < 6.5 \text{ A}/240 \text{ VAC}$ : 8 x $I_n$ at $I_n \geq 6.5 \text{ A}/240 \text{ VAC}$ : 96 A
Degree of Protection	from front side IP 40 acc. to IEC 60529
Dielectric Strength	50Hz: > 1.5 kV Impulse 1.2/50 $\mu\text{s}$ : > 2.5 kV
Insulation Resistance	500 VDC > 100 M $\Omega$
Endurance typical	2 x $I_r$ : 500 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
Ambient temperature	-5 °C to 60 °C
Vibration Resistance	$\pm 1.5 \text{ mm}$ @ 10 - 60 Hz acc. to IEC 60068-2-6, test Fc 5 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
Weight	ca. 10 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: T11

Approval Logo	Certificates	Certification Body	Description
	<a href="#">VDE Approvals</a>	VDE	VDE Certificate Number:
	<a href="#">UL Approvals</a>	UL	UL File Number:
	<a href="#">CQC Approvals</a>	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.

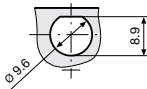
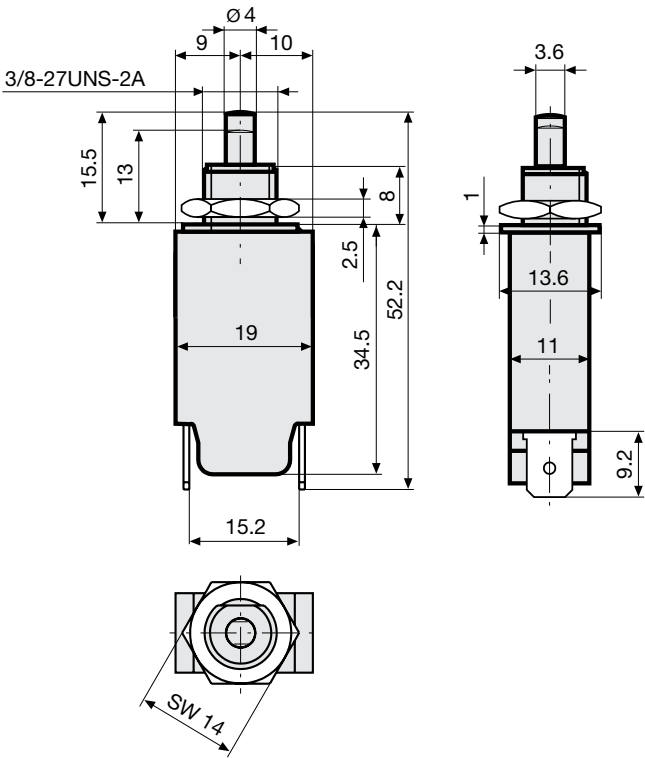
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	<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.
	<a href="#">RoHS</a>	SCHURTER AG	EU Directive RoHS 2011/65/EU
	<a href="#">China RoHS</a>	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.
	<a href="#">REACH</a>	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.

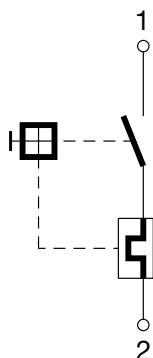
Dimension [mm]

T11-311



## Diagrams

Rated current  $\leq 7,5$  A



## Typical internal resistance

Rated Current [A]	Internal Resistance [ $\Omega$ ]
0.05	380.000
0.50	5.200
1.00	1.350
2.00	0.300
3.00	0.130
4.00	0.080
5.00	0.040
6.00	0.040
7.00	0.020
8.00	0.012
9.00	0.012
10.00	0.011
11.00	0.0095
12.00	0.0095
13.00	0.0085
14.00	0.0085
15.00	0.0075
16.00	0.0075

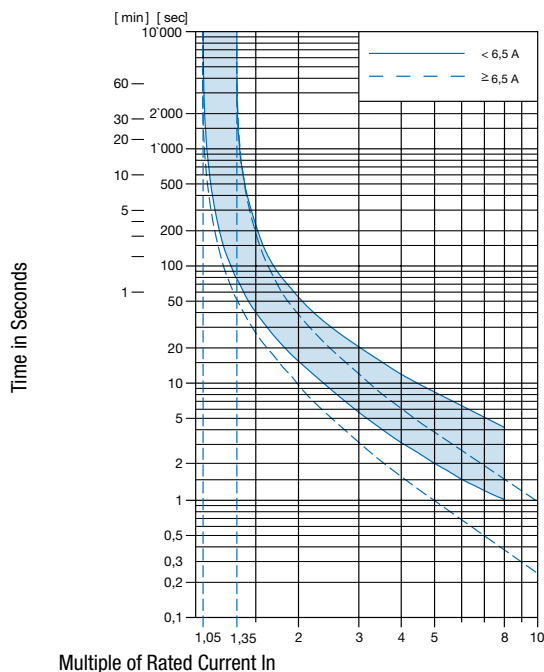
## Effect of ambient temperature

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	0.87
0	0.90
+10	0.95
+23	1.00
+30	1.04
+40	1.10
+50	1.15
+60	1.20

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



## Config. Code

T11 - 1 2 3 A B - 1.23

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

T11 - **1** 2 3 A B - 1.23 = Mounting

Mounting	Configuration key
Threaded neck type 8 mm	3

T11 - 1 **2** 3 A B - 1.23 = Actuation Type

Actuation Type	Configuration key
Reset type	1

T11 - 1 2 **3** A B - 1.23 = Terminal

Terminal	Configuration key
Quick connect terminal 6.3x0.8mm	1

T11 - 1 2 3 **A** B - 1.23 = Shunt terminal

Shunt terminal	Configuration key
Shunt terminal	N

T11 - 1 2 3 A **B** - 1.23 = Setting indication

Setting indication	Configuration key
Setting indication	R

T11 - 1 2 3 A 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

Other rated currents on request

Rated current	Configuration key	Rated current	Configuration key
2.1 A	2.1	7.0 A	7
2.3 A	2.3	7.5 A	7.5
2.5 A	2.5	8.0 A	8
2.8 A	2.8	8.5 A	8.5
3.0 A	3	9.0 A	9
3.3 A	3.3	9.5 A	9.5
3.5 A	3.5	10.0 A	10
4.0 A	4	11.0 A	11
4.5 A	4.5	12.0 A	12
5.0 A	5	13.0 A	13
5.5 A	5.5	14.0 A	14
6.0	6	15.0 A	15
6.5 A	6.5	16.0 A	16

Other rated currents on request

## Variants

Rated current	Construction variants		Config. Code	Order Number
	Shunt terminal	Setting indication		
1.0			T11-311-1	4400.0063
3.0 A			T11-311-3	4400.0345
3.0 A		●	T11-311R-3	4400.0523
4.5 A			T11-311-4.5	4400.0665
2.5 A			T11-311-2.5	4400.0730
12.0 A	●	●	T11-311NR-12	4400.0748

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

## Accessories

### Description



**T-Line Accessories**  
Accessories to T-Line