

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



See below:
Approvals and Compliances

Description

- Threaded neck type
- Thermal circuit breaker
- 1-pole
- Reset type
- Wide current range
- High breaking capacity
- Quick connect terminals 6.3 x 0.8 mm
- Versions with a rated current > 20A are delivered with screw clamp terminals.

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

Technical Data

Rated Voltage AC	AC 240/277 VAC, see approbations	Overload	IEC: min. 40 trips @ 6 x Ir, cos φ 0.6
Rated Voltage DC	28 VDC		UL / CSA: min. 50 trips @ 1.5 x Ir, cos φ 0.75
Rated current range AC	0.05 - 30 A	Allowable Operation Temp.	-5 °C to 60 °C
Conditional short circuit capacity Inc	IEC 60934: PC1, AC 240 V: 1 kA	Vibration Resistance	± 1.5 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
Short circuit capacity Icn	IEC 60934: at $I_n < 7$ A/240 VAC : $8 \times I_n$ IEC 60934: at $I_n \geq 7$ A/240 VAC : 400 A AC/DC 28 V : 400 A	Shock Resistance	100 G / 6ms acc. to IEC 60068-2-27, test Ea
Degree of Protection	front side IP40 acc. to IEC 60529	Tripping Type	Thermal
Dielectric Strength	50Hz: 1.5 kV Impulse 1.2/50 µs: > 2.5 kV	Actuation Type	Reset type
Insulation Resistance	500VDC > 100 MΩ	Weight	ca. 10 g
Endurance typical	2 x Ir: 3000 switching cycles		
Endurance minimum	Reset type AC : 2 x Ir, cos φ 0.6 : DC : 2 x Ir, L/R = 2 - 3 ms : 50 switching cycles		

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: T13

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 123283
	UL Approvals	UL	UR File Number: E71572
	CSA Approvals	CSA	CSA Certification Record: LR 37712
	CCC Approvals	CCC	CCC Certificate Number: 2024010307696712

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

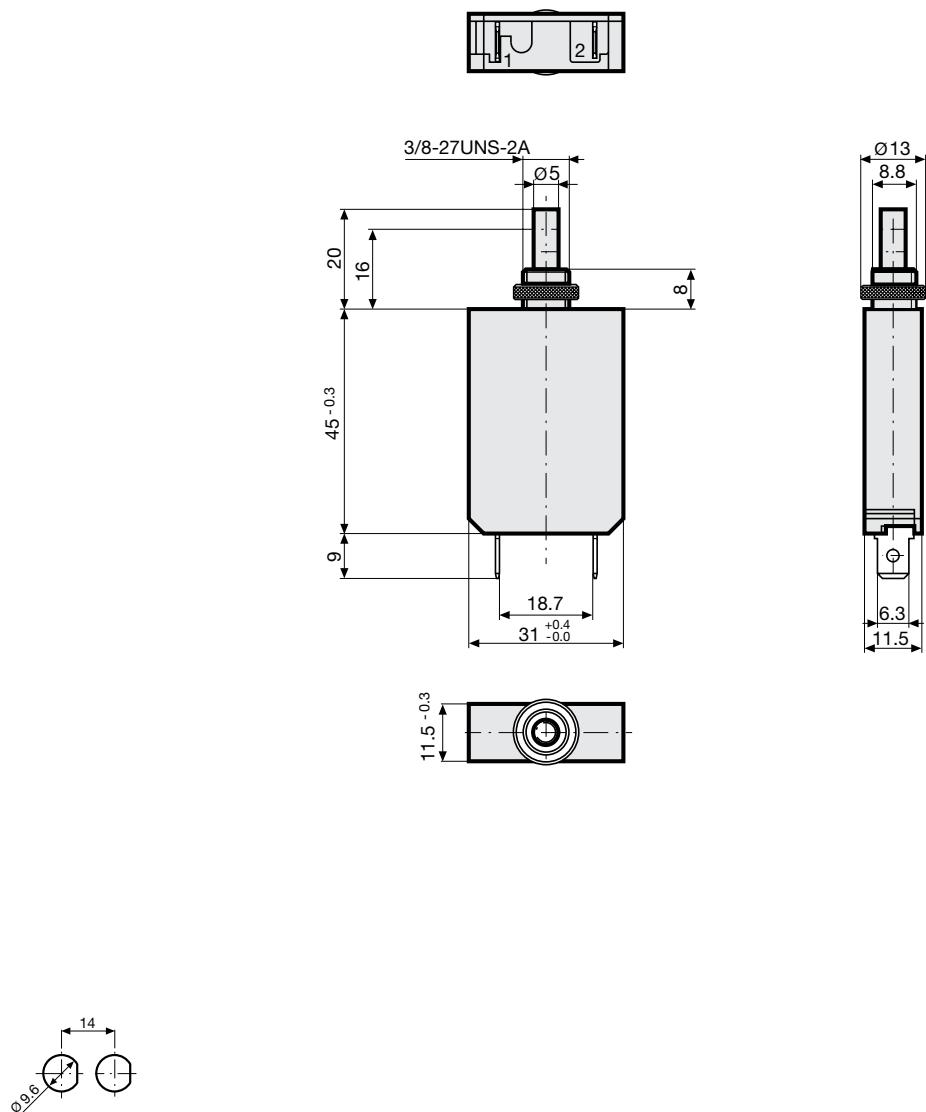
Organization	Design	Standard	Description
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

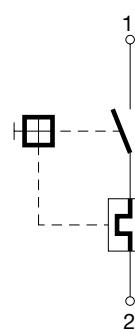
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 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]
T13-211



Diagrams

T13-...



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 per pole

Rated Current [A]	Internal Resistance [Ω]
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

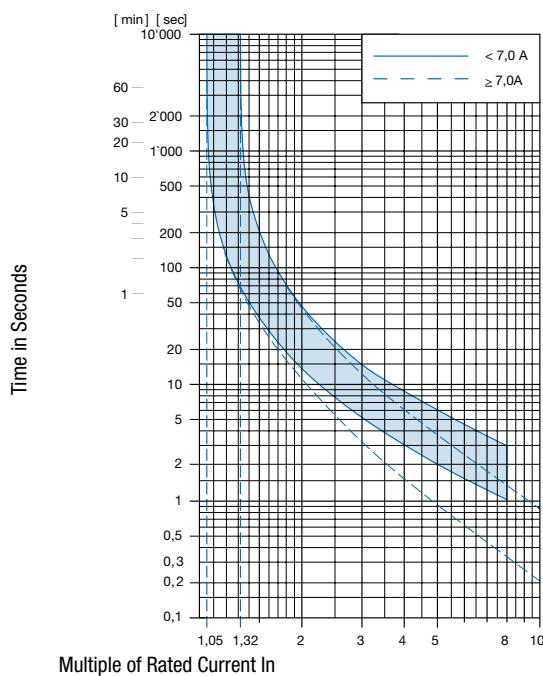
Effect of ambient temperature

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 --> Round to next higher rated current: 6 A

Time-Current-Curves



Ambient 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		Rated current	Configuration key
Mounting	Configuration key		
Threaded neck type with knurled nut	2	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
		2.5 A	2.5
		2.8 A	2.8
		3.0 A	3

T13 - 1 2 3 B - 1.23 = Actuation Type		Configuration key
Actuation Type	Configuration key	
Reset type	1	

T13 - 1 2 3 B - 1.23 = Terminal		Configuration key
Terminal	Configuration key	
Quick connect terminal 6.3x0.8mm	1	

T13 - 1 2 3 B - 1.23 = Setting indication		Configuration key
Setting indication	Configuration key	
Setting indication	R	

T13 - 1 2 3 B - 1.23 = Rated current		Configuration key
Rated current	Configuration key	
0.05 A	0.05	
0.1 A	0.1	
0.15 A	0.15	

Other rated currents on request

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

Other rated currents on request

Other rated currents on request

Variants

Rated current	Setting indication	Config. Code	Order Number
15.0 A		T13-211-15	4411.0007
20.0 A		T13-211-20	4411.0010
30.0 A		T13-211-30	4411.0017
18.0 A		T13-211-18	4411.0019
25.0 A		T13-211-25	4411.0073
30.0 A	●	T13-211R-30	4411.0221

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

Packaging Unit	20 Pcs

Accessories

Description



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