

Circuit Breaker for Equipment thermal, Threaded neck type, Reset type, Screw terminals



Description

- Threaded neck type
- Thermal circuit breaker
- 1-pole
- Reset type
- Positively trip-free release
- Wide current range
- High breaking capacity
- Bolts and nuts

Standards

- IEC 60934
- UL 1077
- CSA C22.2 235
- GB 17701

Applications

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

Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Product News](#)

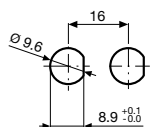
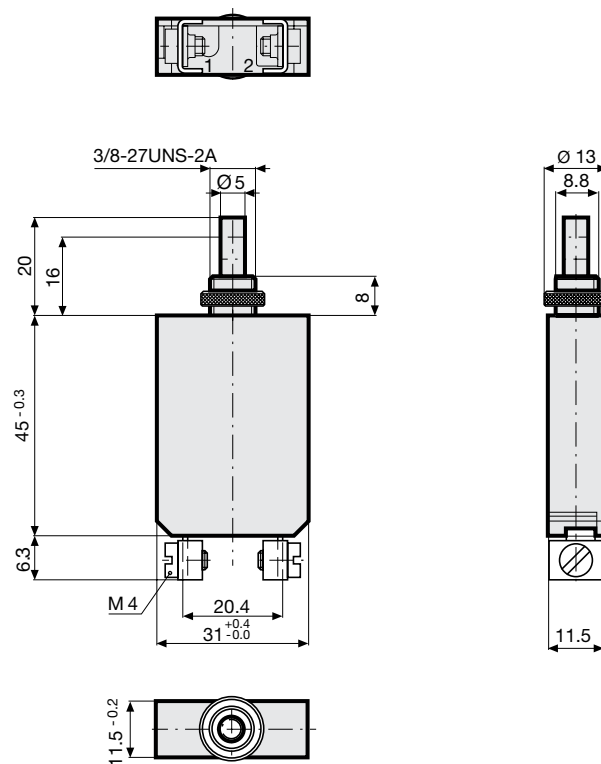
Technical Data

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 240V: 1 kA
Short circuit capacity Icn	at $I_n < 7 \text{ A/240 VAC}$: $8 \times I_n$ 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 μs : > 2.5kV
Insulation resistance	500VDC > 100 M Ω
Endurance typical	2 x Ir: 3000 switching cycles
Endurance minimum	Reset type AC : 2 x Ir , $\cos \phi$ 0.6 : DC : 2 x Ir , L/R = 2 - 3 ms : 50 switching cycles

Overload	IEC: min. 40 trips @ $6 \times I_r$, $\cos \phi$ 0.6 UL / CSA: min. 50 trips @ $1.5 \times I_r$, $\cos \phi$ 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 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
Weight	ca. 10g

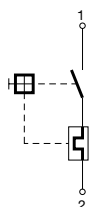
Dimension

T13-212



Diagrams

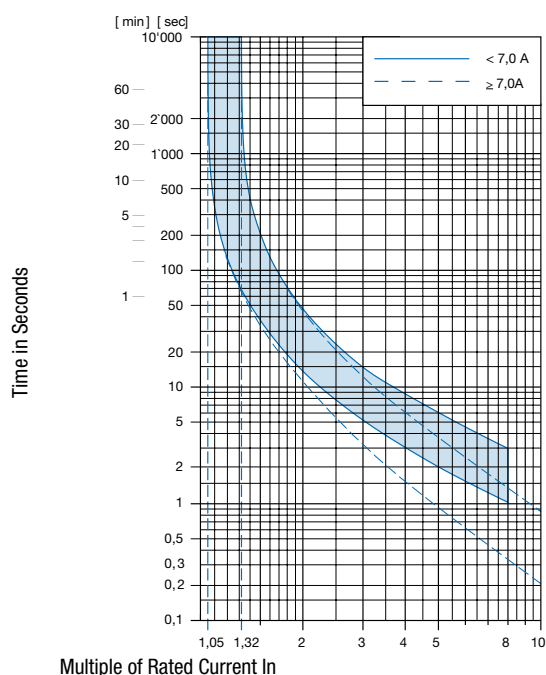
T13-...



Approvals

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	-

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	0.88
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 --> Found to next higher rated current: 6 A

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
Threaded neck type with knurled nut	2

T13 - 1 2 3 B - 1.23 = Actuation type

Actuation type	Configuration key
Reset type	1

T13 - 1 2 3 B - 1.23 = Terminal

Terminal	Configuration key
Screw clamp terminals	2

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

Other rated currents on request

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

Other rated currents on request

All Variants

Rated current	Setting indication	Config. Code	Order Number
16.0 A		T13-212-16	4411.0012
30.0 A		T13-212-30	4411.0067
12.0 A		T13-212-12	4411.0099
11.0 A	●	T13-212R-11	4411.0210
15.0 A	●	T13-212R-15	4411.0211

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

Packaging Unit 1 Pcs

Accessories

Description



T-Line Zubehör
Accessories to T_Line