

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



Description

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

Standards

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

Applications

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

Weblinks

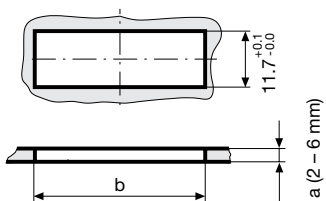
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Product News](#)

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 $I_n < 7 \text{ A}/240 \text{ VAC}$: 8 x I_n at $I_n \geq 7 \text{ A}/240 \text{ VAC}$: 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

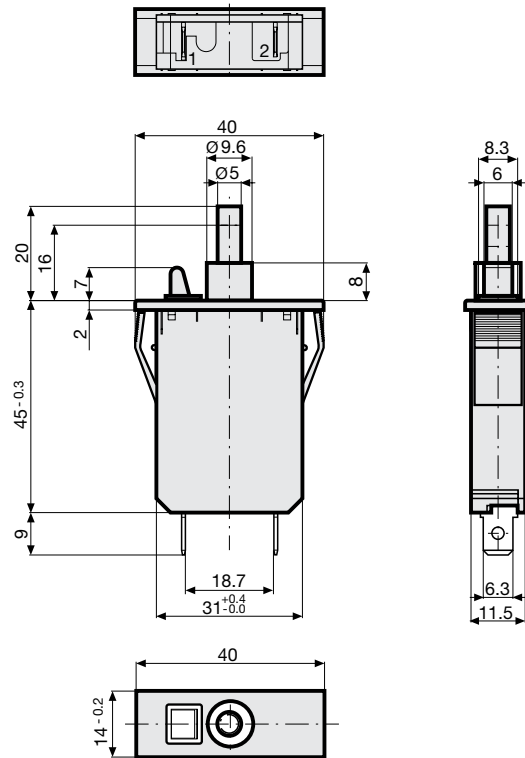
Overload	IEC: min. 40 trips @ 6 x Ir, $\cos \phi$ 0.6 UL / CSA: min. 50 trips @ 1.5 x Ir, $\cos \phi$ 0.75
Ambient temperature	-5°C to 60°C
Vibration Resistance	$\pm 1.5 \text{ mm}$ @ 10 - 60 Hz acc. to IEC 60068-2-6, test Fc 10 G @ 60 - 500 Hz acc. to IEC 60068-2-6, test Fc
Shock Resistance	100 G /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

Dimension



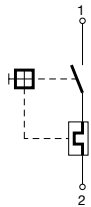
a	b
2 - 4,5	35,6 $^{+0.2}_{0.0}$
5 - 6	36,5 $^{+0.2}_{0.0}$

T13-671

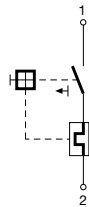


Diagrams





T13-...



T13-67.



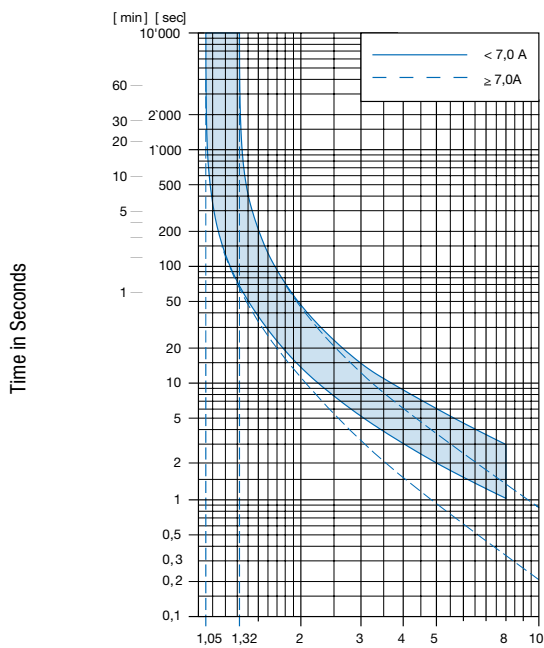
Approvals

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	-

Typical internal resistance

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

Time-Current-Curves



Multiple of Rated Current I_n

Reference Temperature $+23^\circ$

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

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

Other rated currents on request

Rated current	Configuration key
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
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

Other rated currents on request

Rated current	Configuration key	Rated current	Configuration key
12.0 A	12	19.0 A	19
13.0 A	13	20.0 A	20
14.0 A	14	22.0 A	22
15.0 A	15	25.0 A	25
16.0 A	16	28.0 A	28
17.0 A	17	30.0 A	30
18.0 A	18	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	4411.0027
10.0 A		T13-671-10	4411.0102
1.0		T13-671-1	4411.0129
2.0 A		T13-671-2	4411.0130
3.0 A		T13-671-3	4411.0131
0.2 A	●	T13-671R-0.2	4411.0230

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-Linie Zubehör
Accessories to T-Line