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



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
- Versions with a rated current > 20A are delivered with screw clamp

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
Rated Voltage DC	28 VDC
Rated current range AC	0.05 - 30 A
Conditional short circuit capacity Inc	IEC 60934: PC1, AC 240 V: 1 kA
Short circuit capacity Icn	IEC 60934: at ln < 7 A/240 VAC : 8 x ln
	IEC 60934: at In ≥ 7 A/240 VAC : 400 A
	AC/DC 28 V : 400 A
Degree of Protection	front side IP40 acc. to IEC 60529
Dielectric Strength	50Hz: 1.5kV
	Impulse 1.2/50 µs: > 2.5 kV
Insulation Resistance	$500\text{VDC} > 100\text{M}\Omega$
Endurance typical	2 x Ir: 3000 switching cycles
Endurance minimum	Reset type
	AC: 2 x lr, cos φ 0.6:
	DC: $2 \times Ir$, $L/R = 2 - 3 \text{ ms}$:
	50 switching cycles

Overload	IEC: min. 40 trips
	@ 6 x lr, cos φ 0.6
	UL / CSA: min. 50 trips
	@ 1.5 x lr, cos φ 0.75
Allowable Operation Temp.	-5°C to 60°C
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
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

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
_DVE	VDE Approvals	VDE	VDE Certificate Number: 123283
71 °	UL Approvals	UL	UR File Number: E71572
®	CSA Approvals	CSA	CSA Certification Record: LR 37712
(1)	CCC Approvals	ccc	CCC Certificate Number: 2024010307696712

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)
(UL)	Designed according to	UL 1077	Standard for Supplementary Protectors for Use in Electrical Equipment
CSA Group	Designed according to	CSA C22.2 No. 235	Supplementary Protectors
(W)	Designed according to	GB 17701	Circuit-breaker for equipment

Application standards

Application standards where the product can be used

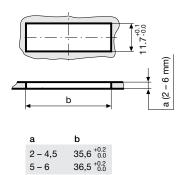
Organization	Design	Standard	Description
<u>IEC</u>	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

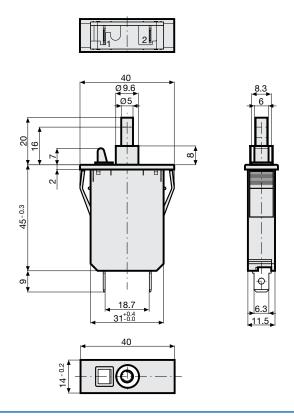
The product complies with following Guide Lines

Identification	Details	Initiator	Description
C€	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.
UK CA	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	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
51)	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	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]

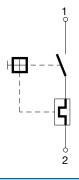


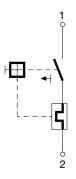
T13-671



Diagrams

T13-... T13-67.





Approval		Rated current	Rated Voltage AC	Rated Voltage DC
	UL 1077	0.0530 A	277 V	28 V
	CSA C22.2 No. 235	0.0530 A	277 V	28 V
	EN 60934	0.0530 A	240 V	-
	GB 17701	0.0530 A	240 V	-

Typical internal resistance per pole

rypicai internai 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		

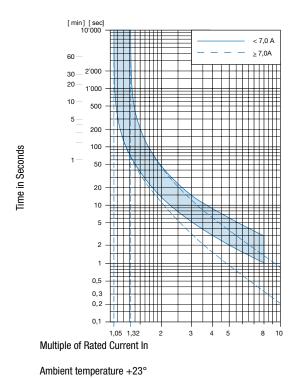
Effect of ambient temperature

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 $^{\circ}$ C, --> Correction factor = 1.1, Resulting current = 5.5 A --> Round to next higher rated current: 6 A

Time-Current-Curves



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

Rated current	Configuration key
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
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	

Variants

Other rated currents on request

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
0.2 A	•	T13-671R-0.2	4411.0230

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

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each

product selected for their own applications.

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4411.0131