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

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

Overload

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	from front side IP40 acc. to IEC 60529	
Dielectric Strength	50 Hz: 1.5 kV	
	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	

Overioad	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
Weight	ca. 10g
	

IEC: min 40trine

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
AI °	UL Approvals	UL	UL File Number: E71572
(CSA Approvals	CSA	CSA Certification Record: LR 37712
(1)	CCC Approvals	CCC	CCC Certificate Number: 2020970307003503

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
GF 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>	Designed for applications acc.		IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

Compliances

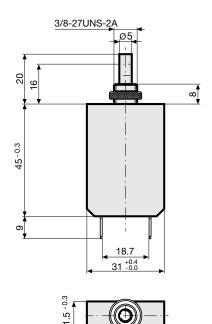
The product complies with following Guide Lines

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.
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
50	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]

T13-211



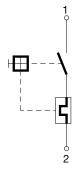






Diagrams

T13-...



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

Typical internal resistance per pole

rypical internal resis	
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

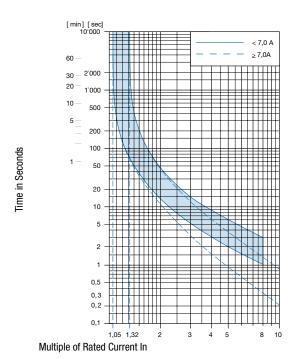
Effect of ambient temperature

The units are calibrated for an ambient temperature of $\pm 23^{\circ}$ 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

Time-Current-Curves

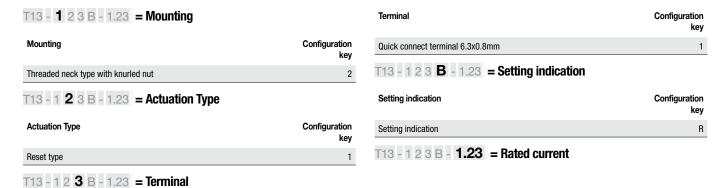


Config. Code

T13 - 1 2 3 B - 1.23

Reference Temperature +23°

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



Rated current	Configuration key	Rated current	Configuration key
0.05 A	0.05	3.5 A	3.5
0.1 A	0.1	4.0 A	4
0.15 A	0.15	4.5 A	4.5
0.2 A	0.2	5.0 A	5
0.3 A	0.3	5.5 A	5.5
0.4 A	0.4	6.0	6
0.5 A	0.5	6.5 A	6.5
0.6 A	0.6	7.0 A	7
0.7 A	0.7	7.5 A	7.5
0.8 A	0.8	8.0 A	8
0.9 A	0.9	8.5 A	8.5
1.0	1	9.0 A	9
1.1 A	1.1	9.5 A	9.5
1.2 A	1.2	10.0 A	10
1.3 A	1.3	11.0 A	11
1.4 A	1.4	12.0 A	12
1.5 A	1.5	13.0 A	13
1.6 A	1.6	14.0 A	14
1.7 A	1.7	15.0 A	15
1.8 A	1.8	16.0 A	16
1.9 A	1.9	17.0 A	17
2.0 A	2	18.0 A	18
2.1 A	2.1	19.0 A	19
2.3 A	2.3	20.0 A	20
2.5 A	2.5	22.0 A	22
2.8 A	2.8	25.0 A	25
3.0 A	3	28.0 A	28
3.3 A	3.3	30.0 A	30

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	

Most Popular.

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

Packaging Unit

20 Pcs

Accessories

Description



T-Line Accessories Accessories to T-Line

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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Other Similar products are found below:

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