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



Description

- Snap-in versionThermal circuit breaker
- 1-pole
- I-pole
- Reset type with manual release
- Wide current range
- High breaking capacity
- Bolts and nuts

Unique Selling Proposition

- Compact design
- Positively trip-free release
- Available with cover
- Different mounting possibilities

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 capa- city 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 lr: 3000 switching cycles
Endurance minimum	Reset type
	AC : 2 x lr , cos φ 0.6 :
	DC : 2 x lr , L/R = 2 - 3 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.

See below: Approvals and Compliances

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

T13-672

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
NE	VDE Approvals	VDE	VDE Certificate Number: 123283
91	UL Approvals	UL	UR File Number: E71572
() ()	CSA Approvals	CSA	CSA Certification Record: LR 37712
	CCC Approvals	000	CCC Certificate Number: 2020970307003503

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)
(H)	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
	Designed according to	GB 17701	Circuit-breaker for equipment

Application standards

Application standards where the product can be used

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

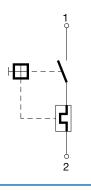
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
CE	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.
COMPLIANT	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	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.

Diagrams

T13-...



Thermal (T- and TA-Line) https://www.schurter.com /PG17_20

T13-672

Approval	UL 1077	Rated current 0.0530 A	Rated Voltage AC 277 V	Rated Voltage DC 28 V
(SPE	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	-

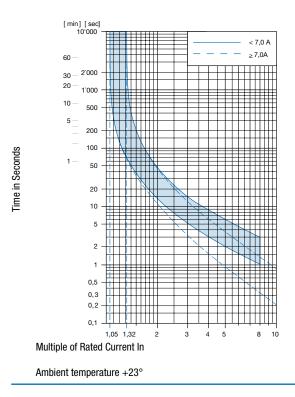
Effect of ambient temperature

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



Config. Code

T13 - 1 2 3 B - 1.23

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

T13-672

Configuration key 1.6 1.7 1.8 1.9 2 2.1 2.3 2.5 2.8 3 3.3 3.5 4 4.5 5 5.5 6 6.5 7 7.5 8 8.5 9 9.5 10 11 12 13 14 15 16 17 18 19 20 22 25 28 30

T13 - 1 2 3 B - 1.23 = Mounting		Rated current
Mounting	Configuration key	1.6 A
Const in mounting from front side	-	1.7 A
Snap-in mounting from front side	6	1.8 A
T13 - 1 2 3 B - 1.23 = Actuation Type		1.9 A
		2.0 A
Actuation Type	Configuration key	2.1 A
Reset type with manual release	7	2.3 A
	1	2.5 A
T13 - 1 2 3 B - 1.23 = Terminal		2.8 A
- · · ·	0 <i>c v</i>	3.0 A
Terminal	Configuration key	3.3 A
Screw clamp terminals	2	3.5 A
	E	4.0 A
T13 - 1 2 3 B - 1.23 = Setting indication		4.5 A
Satting indication	Configuration	5.0 A
Setting indication	key	5.5 A
Setting indication	R	6.0
		6.5 A
T13 - 1 2 3 B - 1.23 = Rated current		7.0 A
Rated current	Configuration	7.5 A
	key	8.0 A
0.05 A	0.05	8.5 A
0.1 A	0.1	9.0 A
0.15 A	0.15	9.5 A
0.2 A	0.2	10.0 A
0.3 A	0.3	11.0 A
0.4 A	0.4	12.0 A
0.5 A	0.5	13.0 A
0.6 A	0.6	14.0 A
0.7 A	0.7	15.0 A
0.8 A	0.8	16.0 A
0.9 A	0.9	17.0 A
1.0	1	18.0 A
1.1 A	1.1	19.0 A
1.2 A	1.2	20.0 A
1.3 A	1.3	22.0 A
1.4 A	1.4	25.0 A
1.5 A	1.5	28.0 A
Other rated currents on request		30.0 A

Other rated currents on request

Variants

Rated current	Setting indication	Config. Code	Order Number
15.0 A		T13-672-15	4411.0145
25.0 A		T13-672-25	4411.0146
30.0 A		T13-672-30	4411.0193
5.0 A		T13-672-5	4411.0206
10.0 A		T13-672-10	4411.0207
7.5 A		T13-672-7.5	4411.0241

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

Packaging Unit

20 Pcs