

Circuit Breaker for Equipment thermal, Threaded neck type, Reset type, Quick connect terminals



Description

- Threaded neck type
- Thermal circuit breaker
- 1-pole
- Reset type
- Positively trip-free release
- 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](#)

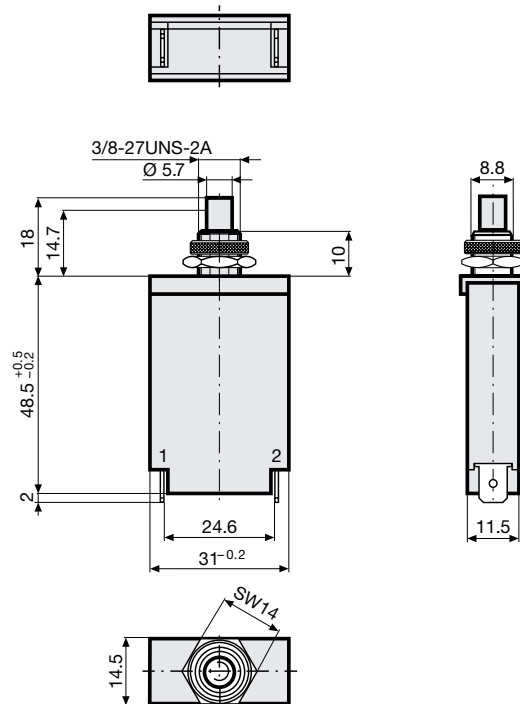
Technical Data

Rated Voltage AC	240 V; 50/60 Hz
Rated Voltage DC	28 V
Rated current range AC	0.05 - 15/16 A, see approbations
Conditional short circuit capacity	IEC: Inc, PC1, AC 240V: 1 kA
Short circuit capacity Icn	at $I_n < 7 \text{ A/240 VAC}$: 8 x I_n at $I_n \geq 7 \text{ A/240 VAC}$: 200 A AC/DC 28 V : 400 A
Degree of Protection	from front side IP 40 acc. to IEC 60529
Dielectric Strength	50Hz: > 1.5 kV Impulse 1.2/50 μ s: > 2.5 kV
Insulation resistance	500 VDC > 100 M Ω
Endurance typical	2 x I_r : 5000 switching cycles
Endurance minimum	Reset type AC : 2 x I_r , $\cos \phi$ 0.6 : DC : 2 x I_r , L/R = 2 - 3 ms : 50 switching cycles

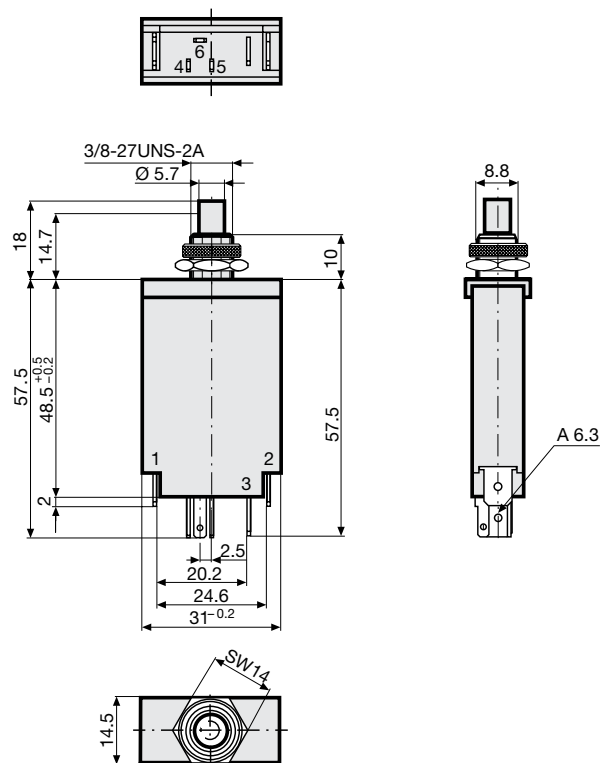
Overload	IEC: min. 40 trips @ 6 x I_r , $\cos \phi$ 0.6 UL / CSA: min. 50 trips @ 1.5 x I_r , $\cos \phi$ 0.75
Ambient temperature	-5 °C to 60 °C
Vibration Resistance	$\pm 1.5 \text{ mm}$ @ 10 - 60 Hz acc. to IEC 60068-2-6, test Fc 10 G @ 60 - 500 Hz acc. to IEC 60068-2-6, test Fc
Shock Resistance	100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

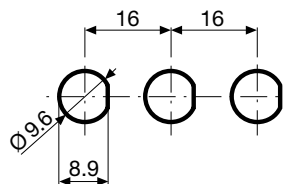
Dimension

T12-211



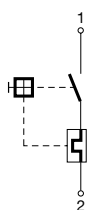
T12-211SN



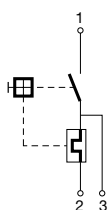


Diagrams

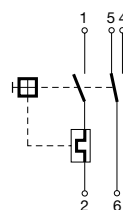
Tap 4,8 x 0,8 mm



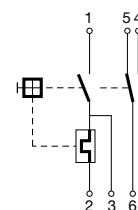
Tap 4,8 x 0,8 mm



Tap 4,8 x 0,8 mm



Tap 4,8 x 0,8 mm



Approvals

Approval		Main circuit			Auxiliary circuit		
		Rated current	Rated voltage AC	Rated voltage DC	Rated current	Rated voltage AC	Rated voltage DC
	UL 1077	0.05...15 A	240 V	28 V	2 A	120 V	-
	CSA C22.2 No. 235				3 A	-	28 V
	CSA C22.2 No. 235	0.3...16 A	240 V	28 V	1 A	240 V	-
	IEC 60934	0.05...16 A	240 V	28 V	1 A	240 V	28 V
	GB 17701	0.05...16 A	240 V	28 V	1 A	240 V	28 V

Typical internal resistance

Rated Current [A]	Internal Resistance [Ω]
0.05	225.000
0.50	3.300
1.00	0.880
2.00	0.267
3.00	0.128
4.00	0.073
5.00	0.040
6.00	0.031
7.00	0.018
8.00	0.018
9.00	0.010
10.00	0.0087
11.00	0.0087
12.00	0.0087
13.00	0.0087
14.00	0.0070
15.00	0.0070
16.00	0.0055

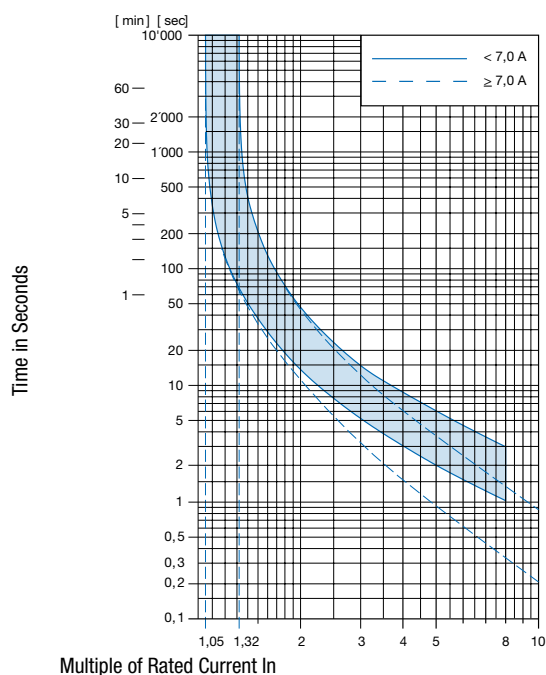
Effect of ambient temperature

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	0.87
0	0.90
10	0.95
23	1.00
30	1.05
40	1.12
50	1.20
60	1.30

Example: Rated current = 5 A; Environmental temperature = 50 °C; --> Correction factor = 1.2; Resulting current = 6.0 A

Time-Current-Curves



Reference Temperature +23°

Config. Code

T12 - 1 2 3 A B C - 1.23

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

T12 - **1** 2 3 A B C - 1.23 = Mounting

Mounting

Configuration
key

Threaded neck type with hexagonal- and knurled nut

2

T12 - 1 **2** 3 A B C - 1.23 = Actuation type

Actuation type

Configuration
key

Reset type

1

T12 - 1 2 **3** A B C - 1.23 = Terminal

Terminal

Configuration
key

Quick connect terminal 6.3x0.8mm

1

T12 - 1 2 3 **A** B C - 1.23 = Auxiliary contact

Auxiliary contact

Configuration
key

Auxiliary contact

S

T12 - 1 2 3 A **B** C - 1.23 = Shunt terminal

Shunt terminal

Configuration
key

Shunt terminal

N

T12 - 1 2 3 A B **C** - 1.23 = Setting indication

Setting indication

Configuration
key

Setting indication

R

T12 - 1 2 3 A B C - **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	Rated current	Configuration key
1.5 A	1.5	5.5 A	5.5
1.6 A	1.6	6.0	6
1.7 A	1.7	6.5 A	6.5
1.8 A	1.8	7.0 A	7
1.9 A	1.9	7.5 A	7.5
2.0 A	2	8.0 A	8
2.1 A	2.1	8.5 A	8.5
2.3 A	2.3	9.0 A	9
2.5 A	2.5	9.5 A	9.5
2.8 A	2.8	10.0 A	10
3.0 A	3	11.0 A	11
3.3 A	3.3	12.0 A	12
3.5 A	3.5	13.0 A	13
4.0 A	4	14.0 A	14
4.5 A	4.5	15.0 A	15
5.0 A	5	16.0 A	16
Other rated currents on request		Other rated currents on request	

Variants

Rated current	Auxiliary contact	Construction variants		Config. Code	Order Number
		Shunt terminal	Setting indication		
12.0 A				T12-211-12	4410.0019
0.8 A	●			T12-211S-0.8	4410.0044
2.5 A	●			T12-211S-2.5	4410.0046
10.0 A				T12-211-10	4410.0106
6.5 A	●			T12-211S-6.5	4410.0264
1.0	●	●	●	T12-211SNR-1	4410.0655

Most Popular.

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