T11-811

Circuit Breaker for Equipment thermal, Drop-in type, Reset type, Quick connect terminals



Description

- Drop-in 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 tools
- Household Equipment
- Power supplies and chargers
- Industrial 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

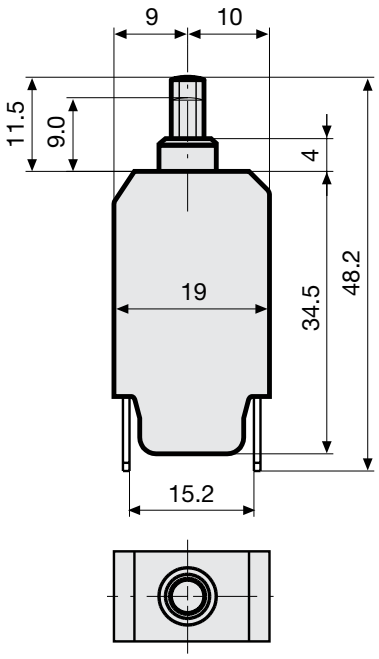
Technical Data

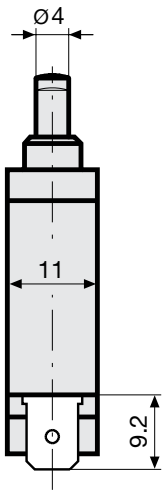
Rated Voltage AC	240 V; 50/60 Hz
Rated Voltage DC	48 V
Rated current range AC	0.05 - 16 A
Conditional short circuit capacity	IEC: Inc, PC1, AC 240V: 2kA
Short circuit capacity Icn	at In < 6.5 A/240 VAC : 8 x In
	at In ≥ 6.5 A/240 VAC : 96 A
Degree of Protection	from front side IP 40 acc. to IEC 60529
Dielectric Strength	50 Hz: > 1.5 kV Impulse 1.2/50 µs: > 2.5 kV
Insulation resistance	500 VDC > 100 MΩ
Endurance typical	2 x Ir: 500 switching cycles
Endurance minimum	Reset type AC : 2 x Ir , cos φ 0.6 : DC : 2 x Ir , L/R = 2 - 3 ms : 50 switching cycles

Overload	IEC: min. 40 trips @ 6 x Ir, cos φ 0.6
	UL / CSA: min. 50 trips @ 1.5 x Ir, cos φ 0.75
Ambient temperature	-5 °C to 60 °C
Vibration Resistance	± 1.5 mm @ 10 - 60 Hz acc. to IEC 60068-2-6, test Fc 5 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

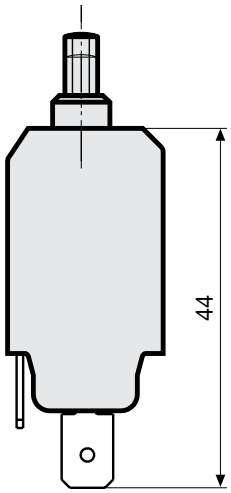
Dimension

T11-811 ≤7,5A

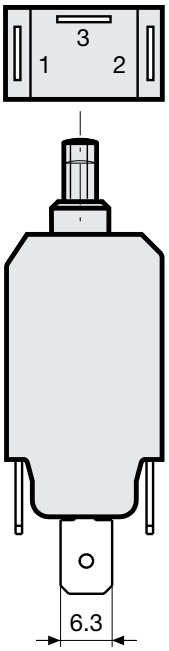




T11-811 >7,5 A

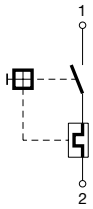


T11-811N

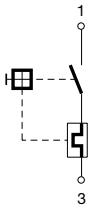


Diagrams

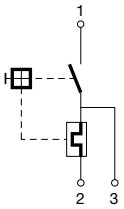
Rated current ≤7,5 A



Rated current >7,5 A



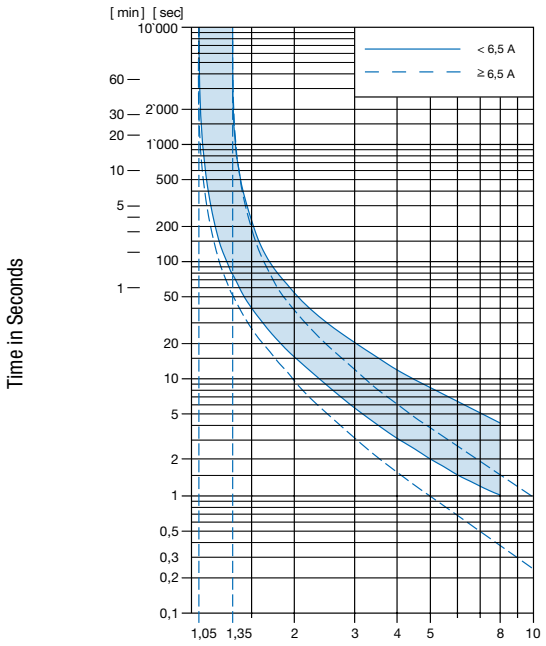
Shunt terminal T11-...N ≤6,5 A



Typical internal resistance

Rated Current [A]	Internal Resistance [Ω]
0.05	380.000
0.50	5.200
1.00	1.350
2.00	0.300
3.00	0.130
4.00	0.080
5.00	0.040
6.00	0.040
7.00	0.020
8.00	0.012
9.00	0.012
10.00	0.011
11.00	0.0095
12.00	0.0095
13.00	0.0085
14.00	0.0085
15.00	0.0075
16.00	0.0075

Time-Current-Curves



Reference Temperature +23°

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	1.04
+40	1.10
+50	1.15
+60	1.20

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

T11 - 1 2 3 A B - 1.23

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

T11 - **1** 2 3 A B - 1.23 = Mounting

Mounting	Configuration key
Drop-in type	8

T11 - 1 **2** 3 A B - 1.23 = Actuation type

Actuation type	Configuration key
Reset type	1

T11 - 1 2 **3** A B - 1.23 = Terminal

Terminal	Configuration key
Quick connect terminal 6.3x0.8mm	1

T11 - 1 2 3 **A** B - 1.23 = Shunt terminal

Shunt terminal	Configuration key
Shunt terminal	N

T11 - 1 2 3 A **B** - 1.23 = Setting indication

Setting indication	Configuration key
Setting indication	R

T11 - 1 2 3 A 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
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

Other rated currents on request

Rated current	Configuration key
9.0 A	9
9.5 A	9.5
10.0 A	10
11.0 A	11
12.0 A	12

Other rated currents on request

Rated current	Configuration key
13.0 A	13
14.0 A	14
15.0 A	15
16.0 A	16

Other rated currents on request

Variants

Rated current	Construction variants		Config. Code	Order Number
	Shunt terminal	Setting indication		
3.0 A			T11-811-3	4400.0112
5.0 A			T11-811-5	4400.0114
5.5 A			T11-811-5.5	4400.0120
2.5 A			T11-811-2.5	4400.0178
6.0			T11-811-6	4400.0179

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

19.01.2015

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.