Circuit Breaker for Equipment thermal, THT terminals for PCB mounting, 1 pole

new



Description
- Thermal circuit breaker
- 1-pole
- Reset type
- Cycling trip-free release
- THT connectors

Standards
- IEC 60934
- UL 1077
- CSA C22.2 235
- GB 17701

Applications
- Designed for standard and medical applications
- Power supplies
- Uninterruptible power supply
- Power tools
- Industrial appliances
- HVAC
- Household appliances

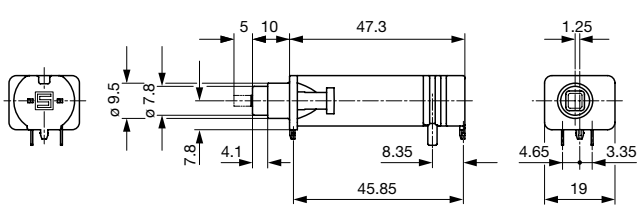
Weblinks
pdf-datasheet, html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, REACH, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, Detailed request for product, Product News, Video

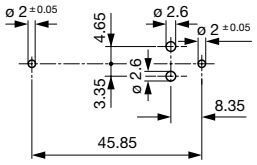
Technical Data

Rated Voltage AC	240 V, 50 / 60 Hz
Rated Voltage DC	48 / 32 V, see approvals
Rated current	3-15 A, see approbations
Conditional short circuit capacity	IEC: Inc, PC1, AC 240 V: 2 kA
	UL / CSA: SC, AC 240 V DC 48 / 32 V: 2 kA, C1
Degree of protection front side	IP 40
Endurance minimum	IEC: 200% Ir, cos φ 0.6: min. 50 switching cycles
Endurance typical	3-8 A: 150% Ir, cos φ 0.9: 2500 switching cycles
	10-15 A: 150% Ir, cos φ 0.9: 6000 switching cycles
Dielectric Strength	1500 VAC
Insulation resistance	500 VDC > 1000 MΩ

Ambient temperature	3 A: -5 °C to 60 °C
	4 A: -5°C to 50 °C
	5-15 A: -5 °C to 60 °C
Soldering Methods	Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-20 / Test Ta, method 1
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-20 / Test Tb, method 1A
Weight	approx. 12.5 g

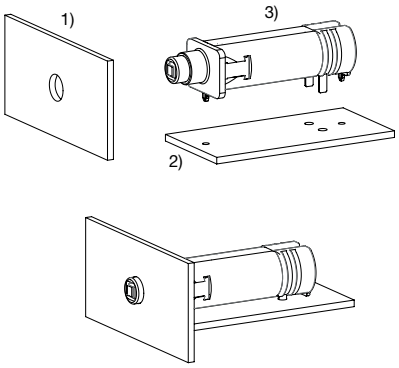
Dimension





Drilling diagram

Assembly Instructions



1) Front panel
2) PCB
3) T9-818

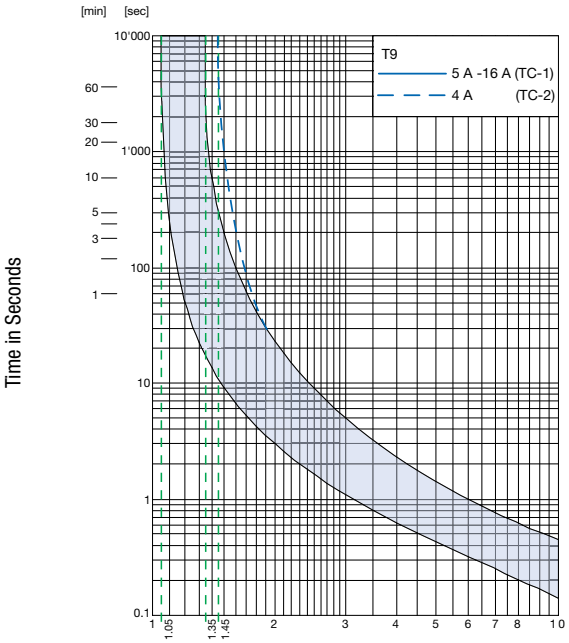
Approvals

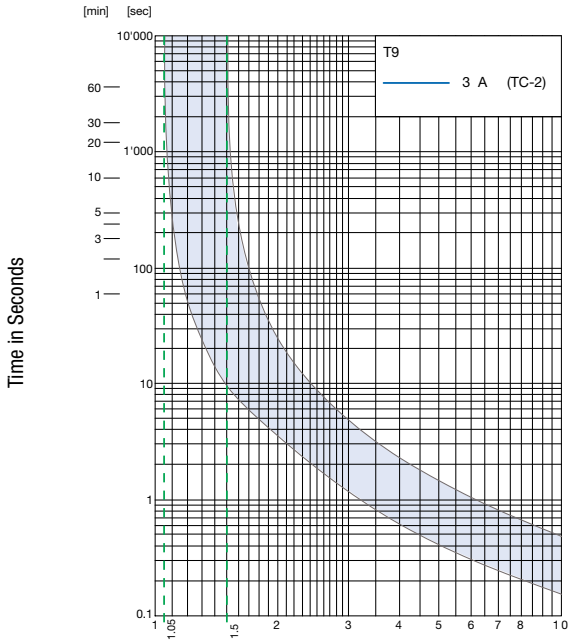
Approval		Rated current	Rated voltage AC	Rated voltage DC
c UL us	UL 1077	3 - 12 A 14 - 15 A	240 V 240 V	48 V 32 V
c UL us	CSA 22.2 235	3 - 12 A 14 - 15 A	240 V 240 V	48 V 32 V
VDE	IEC 60934	3 - 12 A 14 - 15 A	240 V 240 V	48 V 32 V
CCC	GB 17701	3 - 12 A 14 - 15 A	240 V 240 V	48 V 32 V

Typical internal resistance

Rated Current [A]	Internal Resistance [mΩ]
3	80.0
4	26.3
5	24.1
6	19.0
7	18.0
8	14.8
10	13.0
12	12.7
14	9.7
15	8.0

Time-Current-Curves





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	0,85
+10	0,95
+23	1,00
+40	1,08
+60	1,21

Example: Rated current = 10 A; Environmental temperature = 60 °C; --> Correction factor = 1.21; Resulting current = 12.1 A --> Fount to next higher rated current: 13 A

Variants

connection type	Rated current	Order Number
Solder THT	3.0 A	4404.0096
Solder THT	4.0 A	4404.0097
Solder THT	5.0 A	4404.0098
Solder THT	6.0	4404.0099
Solder THT	7.0 A	4404.0100
Solder THT	8.0 A	4404.0101
Solder THT	10.0 A	4404.0102
Solder THT	12.0 A	4404.0103
Solder THT	14.0 A	4404.0104
Solder THT	15.0 A	4404.0105

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

Packaging Unit 100 Pcs

13.04.2015

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.