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

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

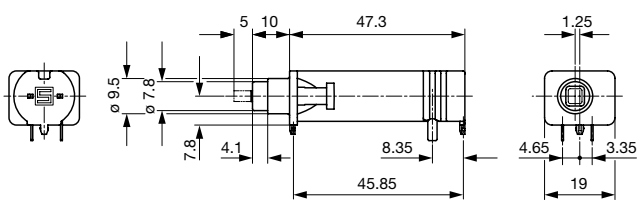
Weblinks
pdf-datasheet, html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, Detailed request for product

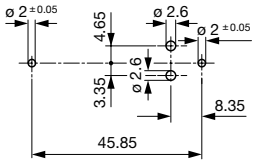
Technical Data

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 240V: 2kA
	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

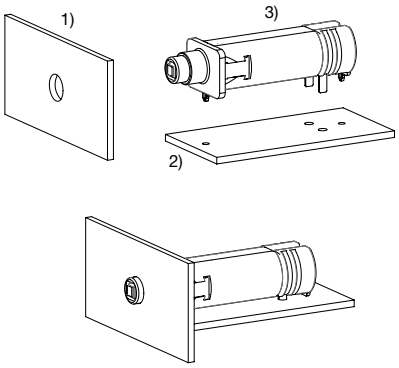
Dimension





Drilling diagram

Assembly Instructions



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

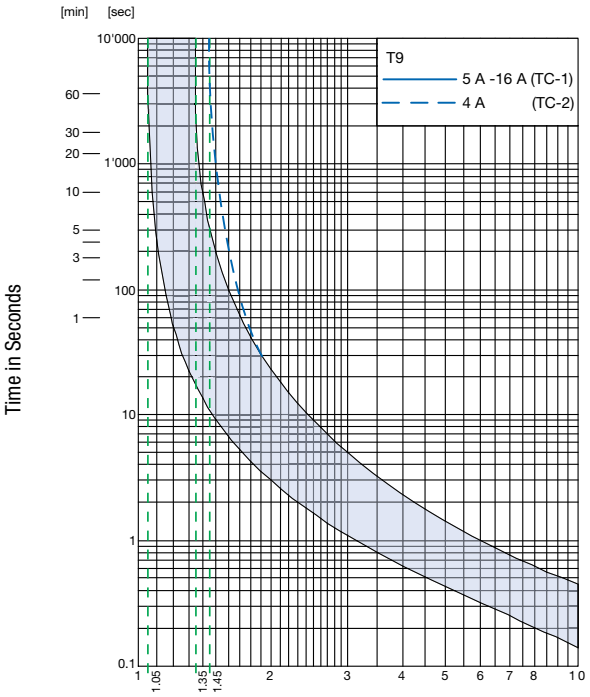
Approvals

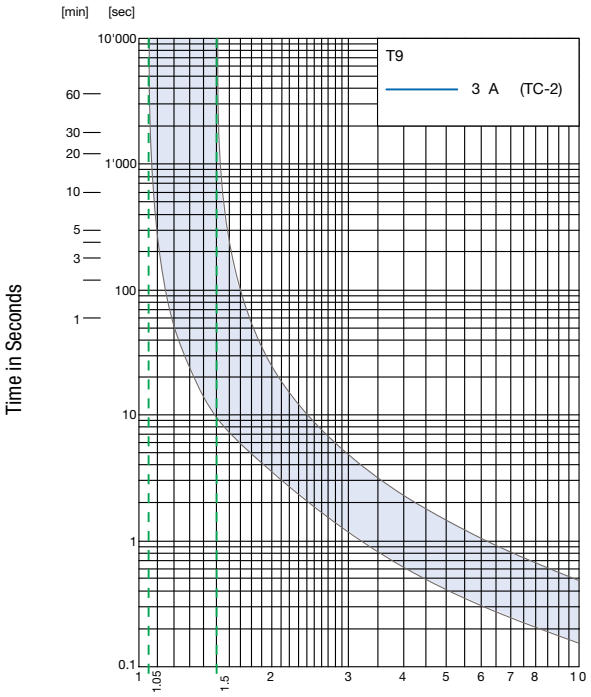
Approval		Rated current	Rated voltage AC	Rated voltage DC
c UL us	UL 1077	3 - 12 A 14 - 15 A	240 V 240 V	48 V 32 V
c UL us	CSA 22.2 235	3 - 12 A 14 - 15 A	240 V 240 V	48 V 32 V
VDE	IEC 60934	3 - 12 A 14 - 15 A	240 V 240 V	48 V 32 V
CCC	GB 17701	3 - 12 A 14 - 15 A	240 V 240 V	48 V 32 V

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

Mounting	Rated current	Order Number	
THT	3A	4404.0096	■
THT	4A	4404.0097	■
THT	5A	4404.0098	■
THT	6A	4404.0099	■
THT	7A	4404.0100	■
THT	8A	4404.0101	■
THT	10A	4404.0102	■
THT	12A	4404.0103	■
THT	14A	4404.0104	■
THT	15A	4404.0105	■

■ Most Popular.

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

Packaging Unit 100 Pcs

07.02.2014