Circuit Breaker for Equipment thermal, Threaded-neck type, 1 pole



See below:
Approvals and Compliances

Description
- Threaded neck type
- Thermal circuit breaker
- 1-pole
- On request available with elevaled glow-wire ratings
- Quick connect terminal 6.3 x 0.8 mm

Unique Selling Proposition
- Reset type
- Cycling trip-free release
- Compact design
- Different mounting possibilities

Applications
- Power supplies
- Uninterruptible power supply
- Power tools
- Industrial appliances
- HVAC
- Household appliances

Weblinks
pdf data sheet, html datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Product News

Technical Data

Rated Voltage AC	240
Rated Voltage DC	48/32
Rated current	3-16 A, see approbations
Conditional short circuit capacity Inc	IEC 60934: PC1, AC 240 V: 2 kA
	UL / CSA: SC, AC 240 V DC 48 / 32 V: 2 kA, C1
Degree of protection front side	IP40
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
	10-16 A: 150% Ir, cos φ 0.9: 6000 switching cycles
Dielectric Strength	1500 VAC
Insulation Resistance	500 VDC > 1000 MΩ

Allowable Operation Temp.	3 A: -5 °C to 60 °C
	4 A: -5°C to 50 °C
	5-16 A: -5 °C to 60 °C
Weight	9 - 13 g

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.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: T9

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40038016
	UL Approvals	UL	UR File Number: E71572
	CCC Approvals	CCC	CCC Certificate Number: 2024010307702466

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)
UL	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
CCC	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

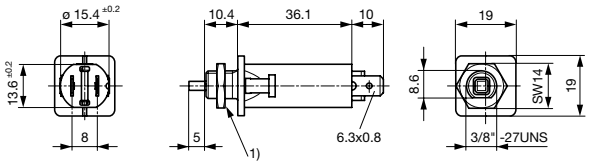
Compliances

The product complies with following Guide Lines

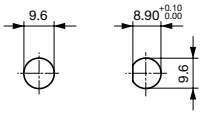
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UKCA	UKCA declaration 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.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
50	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.

Dimension [mm]

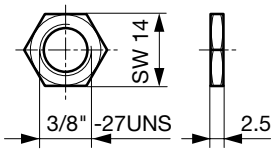
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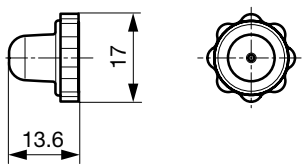
Pannel thickness 0.8 - 5.5 mm
1) max. torque: 0.6Nm



Hexagonal nut TZZ12 / TZZ51



Cover TZZ31für IP65 optional, see accessory

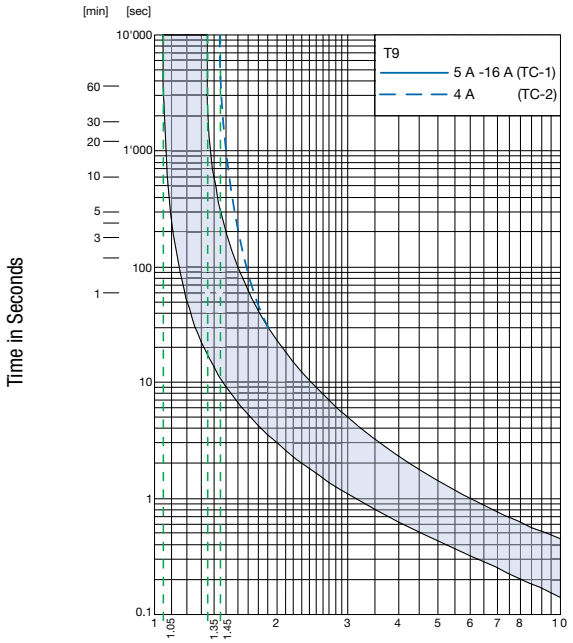


Approval		Rated current	Rated Voltage AC	Rated Voltage DC
	UL 1077	3 - 12 A 14 - 16 A	240 V 240 V	48 V 32 V
	CSA 22.2 235	3 - 12 A 14 - 16 A	240 V 240 V	48 V 32 V
	IEC 60934	3 - 12 A 14 - 16 A	240 V 240 V	48 V 32 V
	GB 17701	3 - 12 A 14 - 16 A	240 V 240 V	48 V 32 V

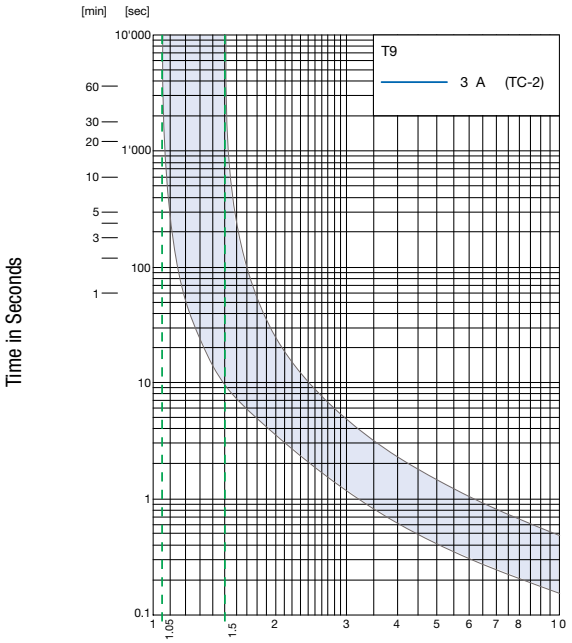
Typical internal resistance per pole

Rated Current [A]	Internal Resistance [mΩ]
3	65.0
4	21.6
5	23.6
6	16.3
7	15.3
8	12.9
10	7.3
12	7.0
14	4.8
15	4.3
16	3.9

Time-Current-Curves



Ambient temperature +23°



Ambient 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	0,85
+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 --> Round to next higher rated current: 13 A

Accessories

Part Number	Type	Resources / Description
4404.0039	TZZ31	Protection cover for IP65
4400.0420	TZZ11	Knurled nut nickel-plated
4400.0559	TZZ11-414	Knurled nut black
4400.0425	TZZ12	Additional hexagonal nut nickel-plated
4404.0072	TZZ51	Additional hexagonal nut PA 66

Variants

Mounting	Front printing	Rated current	Order Number
Threaded-neck type	Rated current not printed on front	3.0 A	4404.0049
Threaded-neck type	Rated current not printed on front	4.0 A	4404.0019
Threaded-neck type	Rated current not printed on front	5.0 A	4404.0025
Threaded-neck type	Rated current not printed on front	6.0	4404.0020
Threaded-neck type	Rated current not printed on front	7.0 A	4404.0027
Threaded-neck type	Rated current not printed on front	8.0 A	4404.0021
Threaded-neck type	Rated current not printed on front	10.0 A	4404.0022
Threaded-neck type	Rated current not printed on front	12.0 A	4404.0023
Threaded-neck type	Rated current not printed on front	14.0 A	4404.0026
Threaded-neck type	Rated current not printed on front	15.0 A	4404.0028

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

Packaging Unit 100 Pcs

02.09.2025

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.