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



T9-311: Threaded neck type with nut nickelplated

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 datasheet, html-datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Product News

Technical Data

240 V, 50 / 60 Hz
48 / 32 V, see approvals
3-16 A, see approbations
IEC: Inc, PC1, AC 240 V: 2 kA
UL / CSA: SC, AC 240 V DC 48 / 32 V: 2 kA, C1
IP 40
IEC: 200% Ir, $\cos \phi$ 0.6: min. 50 switching cycles
3-8 A: 150% lr, cos φ 0.9: 2500 switching cycles
10-16 A: 150% Ir, cos φ 0.9: 6000 switching cycles
1500 VAC
500 VDC > 1000 MΩ

Ambient temperature	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

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
₽ E	VDE Approvals	VDE	VDE Certificate Number: 40038016
c FU °us	UL Approvals	UL	UL File Number: E71572
(I)	CQC Approvals	CQC	CCC Certificate Number: 2013010307617688

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	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
(W)	Designed according to	GB 17701	Circuit-breaker for equipment

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment. $\label{eq:continuous}$

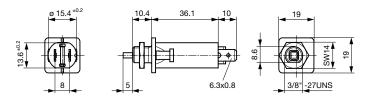
Compliances

The product complies with following Guide Lines

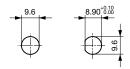
	3		
Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
ROHS	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
5 0	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]

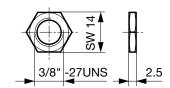
T9-211/311



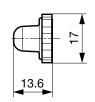
Pannel thickness s = 0.8 - 5.5 mm



Hexagonal nut TZZ12 / TZZ51



Cover TZZ31für IP65 optional, see accessory





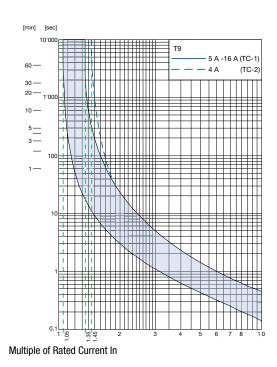
Approval		Rated current	Rated voltage AC	Rated voltage DC
c FL °us	UL 1077	3 - 12 A 14 - 16 A	240 V 240 V	48 V 32 V
c 711 ° us	CSA 22.2 235	3 - 12 A 14 - 16 A	240 V 240 V	48 V 32 V
DE	IEC 60934	3 - 12 A 14 - 16 A	240 V 240 V	48 V 32 V
(W)	GB 17701	3 - 12 A 14 - 16 A	240 V 240 V	48 V 32 V

Typical internal resistance

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

Time in Seconds



Multiple of Rated Current In

[min] [sec]

60 -

Time in Seconds

10'000

Reference Temperature +23°

Reference Temperature +23°

3 A (TC-2)

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 $^{\circ}$ C; --> Correction factor = 1.21; Resulting current = 12.1 A --> Fount to next higher rated current: 13 A

Accessory

Part Number	Туре	Resources / Description
4404.0039	TZZ31	Protection cover for IP 65
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
Threaded-neck type	Rated current not printed on front	16.0 A	4404.0024

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Packaging Unit

100 Pcs

product selected for their own applications.