

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



T9-211: Threaded neck with nut PA66

**Description**

- Threaded neck type
- Thermal circuit breaker
- 1-pole
- Reset type
- Cycling trip-free release
- Quick connect terminals 6.3 x 0.8 mm

Standards

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

Characteristics

- 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](#)

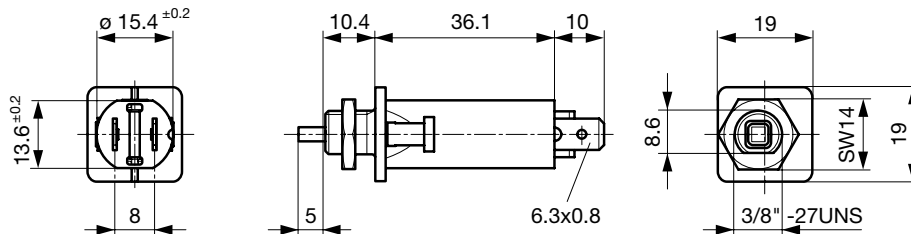
Technical Data

| | |
|------------------------------------|--|
| Rated Voltage AC | 240 V, 50 / 60 Hz |
| Rated Voltage DC | 48 / 32 V, see approvals |
| Rated current | 3-16 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% I _n , cos phi 0.6: min. 50 cycles |
| Endurance typical | 3-8 A; 150% I _n , cos phi 0.9: 2500 cycles 10-16 A; 150% I _n , cos phi 0.9: 6000 cycles |
| Dielectric Strength | 1500 VAC |
| Insulation resistance | 500 VDC > 1000 MΩ |

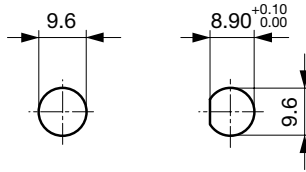
| | |
|---------------------|-------------------------|
| Ambient temperature | 3 A: -5 °C to 60 °C |
| | 4 A: -30 °C to 50 °C |
| | 5-16 A: -30 °C to 60 °C |
| Weight | 9 - 13 g |

Dimensions

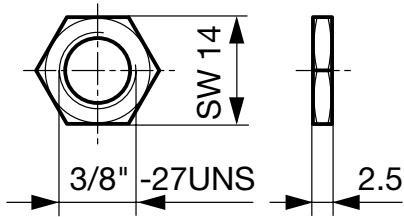
T9-211/311



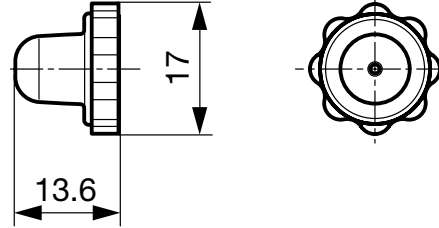
Pannel thickness s = 0.8 - 5.5 mm



Hexagonal nut TZZ12 / TZZ51



Cover TZZ31 für IP65 optional, see accessory



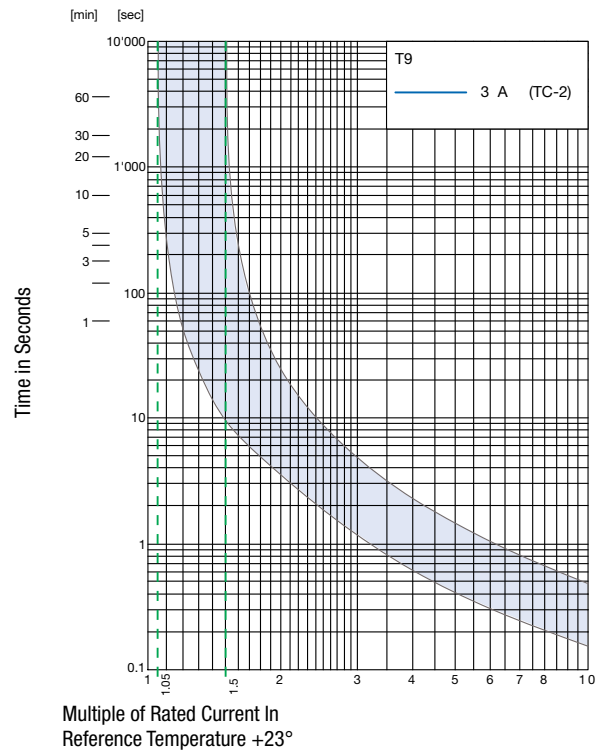
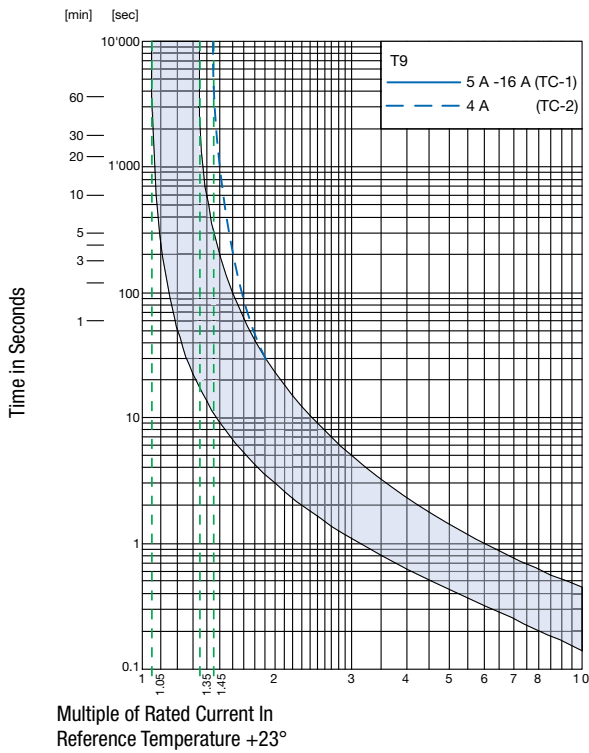
Typical internal resistance

| 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 |

Approvals

| 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 | 4 - 12 A 14 - 16 A | 240 V 240 V | 48 V 32 V |
| GB 17701 | 4 - 12 A 14 - 16 A | 240 V 240 V | 48 V 32 V |

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 at +23°C | 10,0 A |
| Ambient temperature [°C] | +60°C |
| Correction factor | 1,21 |
| Chosen rated current at +60°C ambient temperature | 10,0 A x 1.21 = 12.1 A |

Variants

| Mounting | Front printing | Rated current | Order Number |
|---------------------|------------------------------------|---------------|--------------|
| Threaded neck short | Rated current not printed on front | 3A | 4404.0084 |
| Threaded neck short | Rated current not printed on front | 4A | 4404.0083 |
| Threaded neck short | Rated current not printed on front | 5A | 4404.0082 |
| Threaded neck short | Rated current not printed on front | 6A | 4404.0081 |
| Threaded neck short | Rated current not printed on front | 7A | 4404.0080 |
| Threaded neck short | Rated current not printed on front | 8A | 4404.0079 |
| Threaded neck short | Rated current not printed on front | 10A | 4404.0078 |
| Threaded neck short | Rated current not printed on front | 12A | 4404.0077 |
| Threaded neck short | Rated current not printed on front | 14A | 4404.0076 |
| Threaded neck short | Rated current not printed on front | 15A | 4404.0075 |
| Threaded neck short | Rated current not printed on front | 16A | 4404.0074 |

Packaging Unit 100 Pcs

Accessory

| Part Number | Type | 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 |