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Circuit Breaker for Equipment thermal, Threaded neck type, Reset type, Screw terminals



### Description

- Threaded neck type
- Thermal circuit breaker
- 1-pole
- Reset type
- Wide current range
- High breaking capacity
- Bolts and nuts

### Unique Selling Proposition

- Compact design
- Positively trip-free release
- Available with cover
- Different mounting possibilities

### Standards

- Approval Reference Type: T13
- IEC 60934
- UL 1077
- CSA C22.2 No. 235
- GB 17701

### Applications

- Power supplies
- Uninterruptible power supply
- Power tools
- Household appliances

### Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Product News](#)

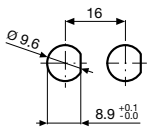
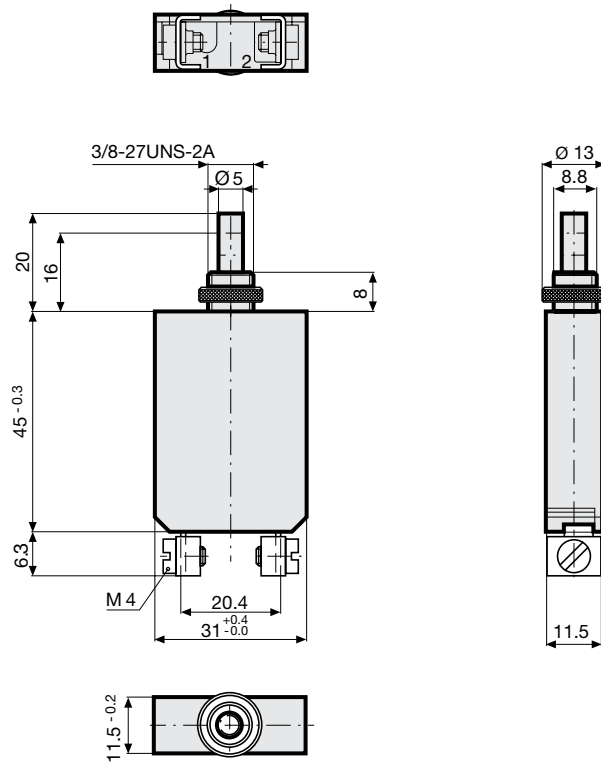
### Technical Data

|                                    |  |
|------------------------------------|--|
| Rated Voltage AC                   | 240/277 V; 50/60 Hz, see approbations  |
| Rated Voltage DC                   | 28 V   |
| Rated current range AC             | 0.05 - 30 A  |
| Conditional short circuit capacity | IEC: Inc, PC1, AC 240 V: 1 kA  |
| Short circuit capacity Icn         | at $I_n < 7 \text{ A}/240 \text{ VAC}$ : $8 \times I_n$<br>at $I_n \geq 7 \text{ A}/240 \text{ VAC}$ : 400 A<br>AC/DC 28 V : 400 A |
| Degree of Protection               | from front side IP 40 acc. to IEC 60529  |
| Dielectric Strength                | 50Hz: 1.5kV<br>Impulse 1.2/50 $\mu\text{s}$ : > 2.5kV  |
| Insulation Resistance              | 500VDC > 100 M $\Omega$  |
| Endurance typical                  | 2 x Ir: 3000 switching cycles  |
| Endurance minimum                  | Reset type<br>AC : 2 x Ir , $\cos \phi$ 0.6 :<br>DC : 2 x Ir , L/R = 2 - 3 ms :<br>50 switching cycles                             |

|                      |   |
|----------------------|---|
| Overload             | IEC: min. 40 trips<br>@ 6 x Ir, $\cos \phi$ 0.6<br>UL / CSA: min. 50 trips<br>@ 1.5 x Ir, $\cos \phi$ 0.75                  |
| Ambient temperature  | -5 °C to 60 °C  |
| Vibration Resistance | $\pm 1.5 \text{ mm}$ @ 10 - 60 Hz<br>acc. to IEC 60068-2-6, test Fc<br>10 G @ 60 - 500 Hz<br>acc. to IEC 60068-2-6, test Fc |
| Shock Resistance     | 100 G / 6ms<br>acc. to IEC 60068-2-27, test Ea  |
| Tripping Type        | Thermal   |
| Actuation Type       | Reset type  |
| Weight               | ca. 10g   |

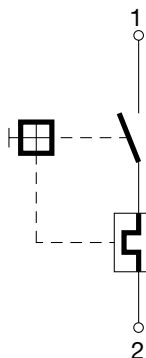
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)





**Dimension [mm]**  
T13-212



**Diagrams**

T13-...



| Approval  |                   | Rated current | Rated voltage AC | Rated voltage DC |
|---|-------------------|---------------|------------------|------------------|
|  | UL 1077           | 0.05...30 A   | 277 V            | 28 V             |
|  | CSA C22.2 No. 235 | 0.05...30 A   | 277 V            | 28 V             |
|  | EN 60934          | 0.05...30 A   | 240 V            | -                |
|  | GB 17701          | 0.05...30 A   | 240 V            | -                |

**Typical internal resistance**

| Rated Current [A] | Internal Resistance [ $\Omega$ ] |
|-------------------|----------------------------------|
| 0.05              | 376.500                          |
| 0.50              | 4.40                             |
| 1.00              | 1.10                             |
| 2.00              | 0.31                             |
| 3.00              | 0.14                             |
| 4.00              | 0.068                            |
| 5.00              | 0.048                            |
| 6.00              | 0.033                            |
| 8.00              | 0.026                            |
| 9.00              | 0.0125                           |
| 10.00             | 0.0125                           |
| 11.00             | 0.0085                           |
| 12.00             | 0.0085                           |
| 13.00             | 0.0085                           |
| 14.00             | 0.007                            |
| 15.00             | 0.007                            |
| 16.00             | 0.007                            |
| 17.00             | 0.0047                           |
| 18.00             | 0.0047                           |
| 19.00             | 0.0047                           |
| 20.00             | 0.004                            |
| 21.00             | 0.0035                           |
| 22.00             | 0.003                            |
| 23.00             | 0.003                            |
| 24.00             | 0.003                            |
| 25.00             | 0.003                            |
| 26.00             | 0.0022                           |
| 27.00             | 0.002                            |
| 28.00             | 0.002                            |
| 29.00             | 0.002                            |
| 30.00             | 0.002                            |

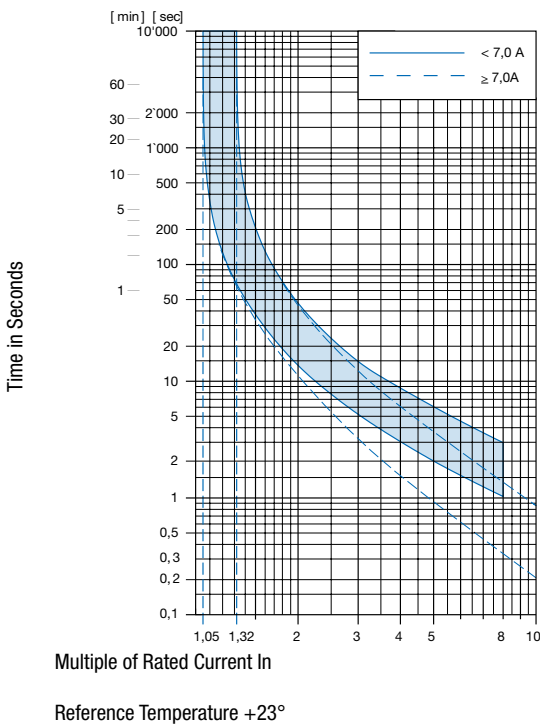
**Effect of ambient temperature**

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                       | 0.88              |
| 0                        | 0.90              |
| 10                       | 0.95              |
| 23                       | 1.00              |
| 30                       | 1.05              |
| 40                       | 1.10              |
| 50                       | 1.18              |
| 60                       | 1.26              |

Example: Rated current = 5 A; Environmental temperature = 40 °C; --> Correction factor = 1.1; Resulting current = 5.5 A --> Fount to next higher rated current: 6 A

**Time-Current-Curves**



**Config. Code**

T13 - 1 2 3 B - 1.23

The characters are placeholders for the correspondingly keys of selections from the key tables.

T13 - 1 **2** 3 B - 1.23 = Mounting

T13 - 1 2 **3** B - 1.23 = Terminal

| Mounting                            | Configuration key |
|-------------------------------------|-------------------|
| Threaded neck type with knurled nut | 2                 |

| Terminal              | Configuration key |
|-----------------------|-------------------|
| Screw clamp terminals | 2                 |

T13 - 1 **2** 3 B - 1.23 = Actuation Type

T13 - 1 2 3 **B** - 1.23 = Setting indication

| Actuation Type | Configuration key |
|----------------|-------------------|
| Reset type     | 1                 |

| Setting indication | Configuration key |
|--------------------|-------------------|
| Setting indication | R                 |

T13 - 1 2 3 B - 1.23 = Rated current

| Rated current | Configuration key |
|---------------|-------------------|
| 0.05 A        | 0.05              |
| 0.1 A         | 0.1               |
| 0.15 A        | 0.15              |
| 0.2 A         | 0.2               |
| 0.3 A         | 0.3               |
| 0.4 A         | 0.4               |
| 0.5 A         | 0.5               |
| 0.6 A         | 0.6               |
| 0.7 A         | 0.7               |
| 0.8 A         | 0.8               |
| 0.9 A         | 0.9               |
| 1.0           | 1                 |
| 1.1 A         | 1.1               |
| 1.2 A         | 1.2               |
| 1.3 A         | 1.3               |
| 1.4 A         | 1.4               |
| 1.5 A         | 1.5               |
| 1.6 A         | 1.6               |
| 1.7 A         | 1.7               |
| 1.8 A         | 1.8               |
| 1.9 A         | 1.9               |
| 2.0 A         | 2                 |
| 2.1 A         | 2.1               |
| 2.3 A         | 2.3               |
| 2.5 A         | 2.5               |
| 2.8 A         | 2.8               |
| 3.0 A         | 3                 |
| 3.3 A         | 3.3               |

Other rated currents on request

| Rated current | Configuration key |
|---------------|-------------------|
| 3.5 A         | 3.5               |
| 4.0 A         | 4                 |
| 4.5 A         | 4.5               |
| 5.0 A         | 5                 |
| 5.5 A         | 5.5               |
| 6.0           | 6                 |
| 6.5 A         | 6.5               |
| 7.0 A         | 7                 |
| 7.5 A         | 7.5               |
| 8.0 A         | 8                 |
| 8.5 A         | 8.5               |
| 9.0 A         | 9                 |
| 9.5 A         | 9.5               |
| 10.0 A        | 10                |
| 11.0 A        | 11                |
| 12.0 A        | 12                |
| 13.0 A        | 13                |
| 14.0 A        | 14                |
| 15.0 A        | 15                |
| 16.0 A        | 16                |
| 17.0 A        | 17                |
| 18.0 A        | 18                |
| 19.0 A        | 19                |
| 20.0 A        | 20                |
| 22.0 A        | 22                |
| 25.0 A        | 25                |
| 28.0 A        | 28                |
| 30.0 A        | 30                |

Other rated currents on request

Variants

| Rated current | Setting indication | Config. Code | Order Number |
|---------------|--------------------|--------------|--------------|
| 16.0 A        |                    | T13-212-16   | 4411.0012    |
| 30.0 A        |                    | T13-212-30   | 4411.0067    |
| 12.0 A        |                    | T13-212-12   | 4411.0099    |
| 11.0 A        | ●                  | T13-212R-11  | 4411.0210    |
| 15.0 A        | ●                  | T13-212R-15  | 4411.0211    |

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

Packaging Unit 20 Pcs

## Accessories

### Description



T-Linie Zubehör  
Accessories to T-Line

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