

Circuit Breaker for Equipment thermal, Snap-in rear side, 1 pole

**Description**

- Snap-in type from rear side (0.5...3.0mm),
- 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](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

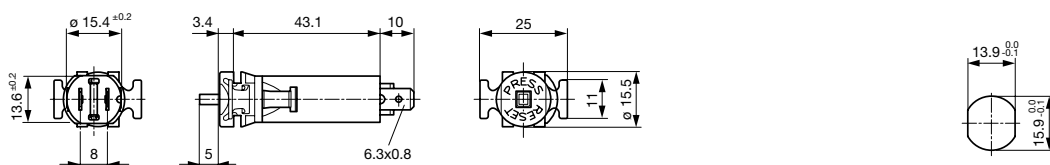
**Technical Data**

|                                    |                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 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 <sub>n</sub> , cos phi 0.6: min. 50 cycles                                                           |
| Endurance typical                  | 3-8 A; 150% I <sub>n</sub> , cos phi 0.9: 2500 cycles<br>10-16 A; 150% I <sub>n</sub> , cos phi 0.9: 6000 cycles |
| Dielectric Strength                | 1500VAC                                                                                                          |
| Insulation resistance              | 500 VDC > 1000 MΩ                                                                                                |

|                         |                         |
|-------------------------|-------------------------|
| Ambient temperature 3 A | 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**

T9-711



Pannel thickness s = 0.5 - 3.0 mm

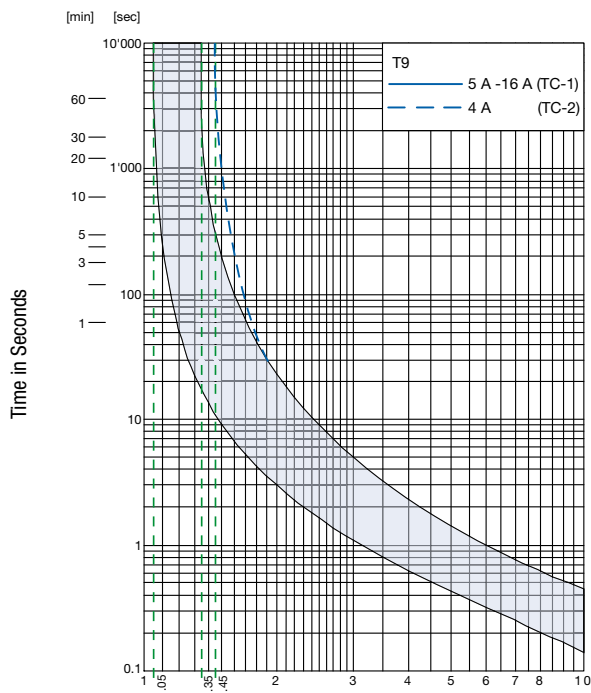
## Typical internal resistance

| 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                      |

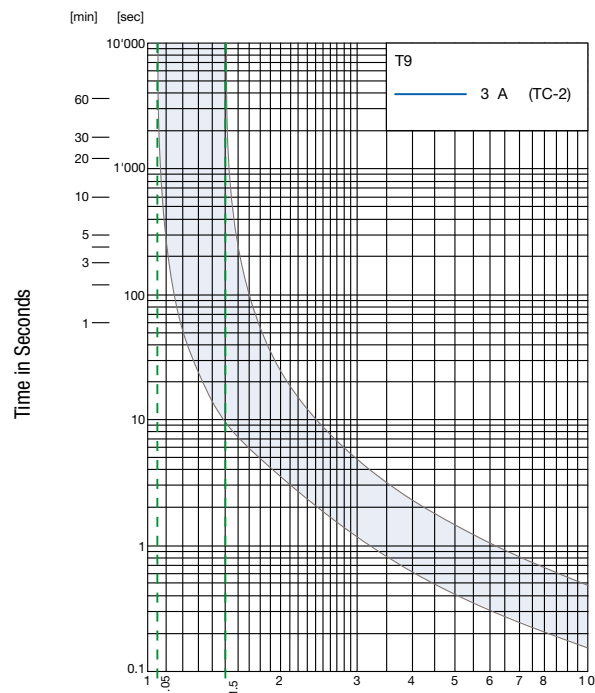
## Approvals

| Approval                                                                            |              | Rated current         | Rated voltage AC | Rated voltage DC |
|-------------------------------------------------------------------------------------|--------------|-----------------------|------------------|------------------|
|  US | UL 1077      | 3 - 12 A<br>14 - 16 A | 240 V<br>240 V   | 48 V<br>32 V     |
|  US | CSA 22.2 235 | 3 - 12 A<br>14 - 16 A | 240 V<br>240 V   | 48 V<br>32 V     |
|     | IEC 60934    | 3 - 12 A<br>14 - 16 A | 240 V<br>240 V   | 48 V<br>32 V     |

## Time-Current-Curves



Multiple of Rated Current In  
Reference Temperature +23°



Multiple of Rated Current In  
Reference 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:

**Example**

| Ambient temperature [°C] | Correction factor | Rated current at +23°C                            | 10,0 A                 |
|--------------------------|-------------------|---------------------------------------------------|------------------------|
| -5                       | 0,85              | Ambient temperature [°C]                          | +60°C                  |
| +10                      | 0,95              | Correction factor                                 | 1,21                   |
| +23                      | 1,00              | Chosen rated current at +60°C ambient temperature | 10,0 A x 1,21 = 12,1 A |
| +40                      | 1,08              |                                                   |                        |
| +60                      | 1,21              |                                                   |                        |

**Variants**

| Mounting               | Front printing                     | Rated Current | Order Number |
|------------------------|------------------------------------|---------------|--------------|
| Snap-in type rear side | Rated current not printed on front | 3A            | 4404.0057    |
| Snap-in type rear side | Rated current not printed on front | 4A            | 4404.0029    |
| Snap-in type rear side | Rated current not printed on front | 5A            | 4404.0035    |
| Snap-in type rear side | Rated current not printed on front | 6A            | 4404.0030    |
| Snap-in type rear side | Rated current not printed on front | 7A            | 4404.0037    |
| Snap-in type rear side | Rated current not printed on front | 8A            | 4404.0031    |
| Snap-in type rear side | Rated current not printed on front | 10A           | 4404.0032    |
| Snap-in type rear side | Rated current not printed on front | 12A           | 4404.0033    |
| Snap-in type rear side | Rated current not printed on front | 14A           | 4404.0036    |
| Snap-in type rear side | Rated current not printed on front | 15A           | 4404.0038    |
| Snap-in type rear side | Rated current not printed on front | 16A           | 4404.0034    |

**Packaging Unit** 100 Pcs

**Accessory**

| Part Number | Type      |                                        |
|-------------|-----------|----------------------------------------|
| 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         |