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Circuit Breaker for Equipment thermal, Rocker actuation, 1 pole



### Description

- Thermal circuit breaker
- 1-pole
- Snap-in version
- Positively trip-free release
- Different rocker colours
- High configurability
- Wide current range

### Standards

- Approval Reference Type: TA35
- IEC 60934
- UL 1077
- CSA C22.2 No. 235
- GB 17701

### Applications

- Power tools
- Industrial appliances
- Equipment for construction
- Cleaning equipment
- Commercial and household kitchen appliances

### Weblinks

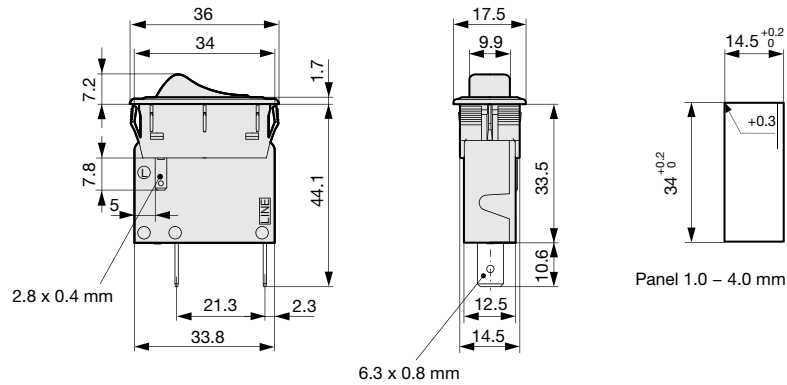
[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Product News](#)

### Technical Data

|                                    |  |                      |  |
|------------------------------------|--|----------------------|--|
| Rated Voltage AC                   | 240 V; 50/60 Hz  | Overload             | IEC: min. 40 trips<br>@ 6 x I <sub>r</sub> , cos φ 0.6   |
| Rated Voltage DC                   | 32 V   |                      | UL / CSA: min. 50 trips<br>@ 1.5 x I <sub>r</sub> , cos φ 0.75   |
| Rated current range AC             | 0.05 - 20 A  | Ambient temperature  | -30°C to 60°C  |
| Conditional short circuit capacity | 0.05...20 A: 2 kA, SC (C1) @ 240 VAC   | Vibration Resistance | ± 0.75 mm @ 10 - 60 Hz<br>acc. to IEC 60068-2-6, test Tc<br>10 G @ 60 - 500 Hz<br>acc. to IEC 60068-2-6, test Tc |
| Degree of Protection               | from front side IP 40 acc. to IEC 60529  | Shock Resistance     | 30 G / 18 ms<br>acc. to IEC 60068-2-27, test Ea  |
| Dielectric Strength                | 50Hz: > 2.5 kV<br>Impulse 1.2/50 μs: > 4 kV  | Tripping Type        | Thermal  |
| Insulation Resistance              | 500VDC > 100 MΩ  | Actuation Type       | Rocker   |
| Endurance typical                  | mechanical: 50'000 switching cycles<br>AC: 1 x I <sub>r</sub> , cos φ 0.6:<br>30'000 switching cycles<br>DC: 1 x I <sub>r</sub> , L/R = 2 - 3 ms:<br>50'000 switching cycles | Weight               | 16.5 - 18.5 g  |

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

## Dimension [mm]



## Diagrams

1-pole, 1 bimetal, illuminated







1) Line, 2) Load  
Codepos AAA = C2F, C4F, C7F, C8F, C9F

1-pole, 1 bimetal, non illuminated



1) Line, 2) Load  
Codepos AAA = CFT, CGT

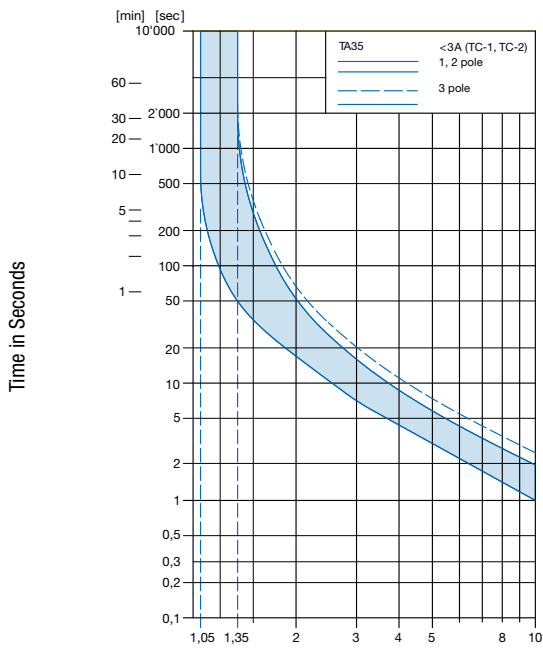
The keys / codepos are listed in the key table of the basic function for selection.

| Approval  |                  | Rated current | Rated voltage AC | Rated voltage DC |
|---|------------------|---------------|------------------|------------------|
|  US | UL 1077          | 0.05...20 A   | 240 V            | 32 V             |
|  US | CSA C22.2<br>235 | 0.05...20 A   | 240 V            | 32 V             |
|     | IEC 60934        | 0.05...20 A   | 240 V            | 32 V             |
|     | GB 17701         | 0.05...20 A   | 240 V            | 32 V             |

Typical internal resistance

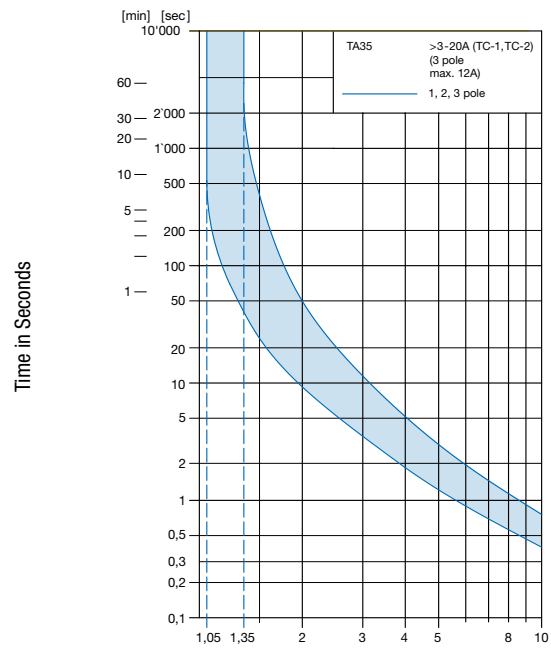
| Rated Current [A] | Internal Resistance [ $\Omega$ ] |
|-------------------|----------------------------------|
| 0.05              | 200.000                          |
| 0.1               | 70.000                           |
| 0.5               | 2.750                            |
| 1.0               | 0.720                            |
| 1.5               | 0.340                            |
| 2.0               | 0.187                            |
| 2.5               | 0.115                            |
| 2.8               | 0.089                            |
| 3.0               | 0.059                            |
| 4.0               | 0.059                            |
| 5.0               | 0.044                            |
| 6.0               | 0.028                            |
| 7.0               | 0.0142                           |
| 8.0               | 0.0142                           |
| 10.0              | 0.0109                           |
| 12.0              | 0.0086                           |
| 13.0              | 0.0072                           |
| 14.0              | 0.0072                           |
| 15.0              | 0.0056                           |
| 16.0              | 0.0056                           |
| 18.0              | 0.0052                           |
| 20.0              | 0.0052                           |

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:

| Ambient temperature [°C] | Correction factor |
|--------------------------|-------------------|
| -30                      | 0.77              |
| -20                      | 0.81              |
| 0                        | 0.90              |
| +23                      | 1.00              |
| +40                      | 1.03              |
| +50                      | 1.04              |
| +60                      | 1.06              |

Example: Rated current = 5 A; Environmental temperature = 50 °C; --> Correction factor = 1.04; Resulting current = 5.2 A --> Fount to next higher rated current: 6 A

## Config. Code

TA35 - CBD B F 120 C0 - CZMXX

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




### TA35 - CBD B F 120 C0 - CZMXX = Basic function

| Basic function  | Configuration key |
|---|-------------------|
| 1-pole, 1 bimetal, illuminated 240 V                      | C2F               |
| 1-pole, 1 bimetal, illuminated 120 V                      | C4F               |
| 1-pole, 1 bimetal, illuminated 24 V                       | C7F               |
| 1-pole, 1 bimetal, illuminated 12 V                       | C8F               |
| 1-pole, 1 bimetal, illuminated 5 V                        | C9F               |
| 1-pole, 1 bimetal, without illumination                   | CFT               |
| 1-pole, 1 bimetal, momentary switch, without illumination | CGT               |


### TA35 - CBD B F 120 C0 - CZMXX = Rocker colour

| Rocker colour      | Configuration key |
|--------------------|-------------------|
| Clear transparent  | 1                 |
| Red transparent    | 3                 |
| Green transparent  | 4                 |
| Orange transparent | 6                 |
| Blue transparent   | 7                 |
| Black              | B                 |
| Green              | G                 |
| Red                | R                 |
| White              | W                 |
| Orange             | X                 |
| Yellow             | Y                 |

### TA35 - CBD B F 120 C0 - CZMXX = Legend

| Legend  | Configuration key |
|---|-------------------|
| embossed       | F                 |
| white printed  | H                 |
| black printed  | K                 |

## Legend

| Legend   | Configuration key |
|--|-------------------|
| white printed   | L                 |
| black printed  | M                 |

### TA35 - CBD B F 120 C0 - CZMXX = Rated current

| Rated current  | Configuration key |
|--|-------------------|
| without thermal overload protection / temporarily without VDE approval | C00               |
| 0.05 A   | Z05               |
| 0.1 A  | J01               |
| 0.2 A  | J02               |
| 0.3 A  | J03               |
| 0.4 A  | J04               |
| 0.5 A  | J05               |
| 0.8 A  | J08               |
| 1.0 A  | J10               |
| 1.2 A  | J12               |
| 1.5 A  | J15               |
| 2.0 A  | J20               |
| 2.5 A  | J25               |
| 3.0 A  | 030               |
| 3.5 A  | 035               |
| 4.0 A  | 040               |
| 5.0 A  | 050               |
| 6.0 A  | 060               |
| 7.0 A  | 070               |
| 8.0 A  | 080               |
| 10.0 A   | 100               |
| 12.0 A   | 120               |
| 13.0 A   | 130               |
| 14.0 A   | 140               |
| 15.0 A   | 150               |
| 16.0 A   | 160               |

Other rated currents on request

| Rated current                   | Configuration key |
|---------------------------------|-------------------|
| 18.0 A                          | 180               |
| 20.0 A                          | 200               |
| Other rated currents on request |                   |

TA35 - CBD B F 120 **C0** - CZMXX = Reserve

| Reserve | Configuration key |
|---------|-------------------|
| reserve | C0                |

TA35 - CBD B F 120 C0 - **CZMXX** = Accessories

| Factory mounted accessories | Configuration key |
|-----------------------------|-------------------|
| Without cover               |                   |

For subsequent fitting accessories see:

[http://www.schurter.com/pdf/english/typ\\_TA35\\_Accessories.pdf](http://www.schurter.com/pdf/english/typ_TA35_Accessories.pdf)

## All Variants

| Basic function  | Rocker colour   | Legend        | Rated current | Accessories   | Config. Code    | Order Number |
|---|-----------------|---------------|---------------|---------------|-----------------|--------------|
| 1-pole, 1 bimetal, without illumination                   | White           | black printed | 2.0 A         | Without cover | TA35-CFTWKJ20C0 | 4435.0029    |
| 1-pole, 1 bimetal, without illumination                   | White           | embossed      | 3.0 A         | Without cover | TA35-CFTWF030C0 | 4435.0019    |
| 1-pole, 1 bimetal, without illumination                   | White           | black printed | 3.0 A         | Without cover | TA35-CFTWM030C0 | 4435.0082    |
| 1-pole, 1 bimetal, illuminated 120 V                      | Red transparent | white printed | 3.0 A         | Without cover | TA35-C4F3H030C0 | 4435.0431    |
| 1-pole, 1 bimetal, without illumination                   | Red             | black printed | 3.0 A         | Without cover | TA35-CFTRM030C0 | 4435.0481    |
| 1-pole, 1 bimetal, without illumination                   | Black           | embossed      | 4.0 A         | Without cover | TA35-CFTBF040C0 | 4435.0028    |
| 1-pole, 1 bimetal, without illumination                   | Black           | embossed      | 5.0 A         | Without cover | TA35-CFTBF050C0 | 4435.0173    |
| 1-pole, 1 bimetal, without illumination                   | Black           | white printed | 5.0 A         | Without cover | TA35-CFTBH050C0 | 4435.0204    |
| 1-pole, 1 bimetal, without illumination                   | Black           | white printed | 6.0 A         | Without cover | TA35-CFTBH060C0 | 4435.0205    |
| 1-pole, 1 bimetal, without illumination                   | Red             | embossed      | 10.0 A        | Without cover | TA35-CFTRF100C0 | 4435.0056    |
| 1-pole, 1 bimetal, without illumination                   | Black           | embossed      | 10.0 A        | Without cover | TA35-CFTBF100C0 | 4435.0174    |
| 1-pole, 1 bimetal, momentary switch, without illumination | Black           | embossed      | 10.0 A        | Without cover | TA35-CGTBF100C0 | 4435.0471    |
| 1-pole, 1 bimetal, without illumination                   | White           | embossed      | 13.0 A        | Without cover | TA35-CFTWF130C0 | 4435.0049    |
| 1-pole, 1 bimetal, without illumination                   | White           | embossed      | 15.0 A        | Without cover | TA35-CFTWF150C0 | 4435.0037    |
| 1-pole, 1 bimetal, without illumination                   | Black           | embossed      | 15.0 A        | Without cover | TA35-CFTBF150C0 | 4435.0137    |
| 1-pole, 1 bimetal, without illumination                   | Black           | white printed | 16.0 A        | Without cover | TA35-CFTBH160C0 | 4435.0209    |
| 1-pole, 1 bimetal, without illumination                   | Black           | embossed      | 16.0 A        | Without cover | TA35-CFTBF160C0 | 4435.0300    |
| 1-pole, 1 bimetal, without illumination                   | Black           | white printed | 20.0 A        | Without cover | TA35-CFTBL200C0 | 4435.0256    |

Most Popular.

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



TA35 Accessories  
Screw-on collar with cover, IP65