Thermal (T- and TA-Line) https://www.schurter.com /PG17_20

TA35 Rocker 2Pole

Circuit Breaker for Equipment thermal, Rocker actuation, 2 pole



illuminated Red transparent

Description

- Snap-in version

- 2-pole

- Thermal circuit breaker

- Positively trip-free release

Different rocker coloursWide current range

Unique Selling Proposition - Unique UL rating of 277 VAC

- Finely graded rated currents

- IP65 with optional cover

- Method of operation acc. to IEC: S-type

- High configurability (rocker colours, lettering, illumination)



Non-illuminated white



illuminated Green transparent White, lettered

See below: Approvals and Compliances

Applications

- Power tools
- Medical and laboratory equipment
- Industrial appliances
- Equipment for construction
- Cleaning equipment
- Commercial and household kitchen appliances
- Industrial Power
- Industrial lighting arrays

Other versions on request - White front cover

Weblinks

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

| Rated Voltage AC | IEC: 240 VAC | Overload | IEC: min. 40 trips | | |
|---------------------------------|-------------------------------------|---------------------------|--|--|--|
| - | UL/CSA : 277 VAC | | @ 6 x lr, cos φ 0.6 | | |
| Rated Voltage DC | 60 VDC | | UL / CSA: min. 50 trips | | |
| Rated current range AC | 0.05 - 20 A | | @ 1.5 x lr, cos φ 0.75 | | |
| Conditional short circuit capa- | IEC 60934: 0.0520 A: 2 kA, SC (C1) | Allowable Operation Temp. | -30 °C to 60 °C | | |
| city Inc | @ 240 VAC | Storage Temperature | -40 °C to 60 °C | | |
| Degree of Protection | front side IP40 acc. to IEC 60529 | Vibration Resistance | ± 0.75 mm @ 10 - 60 Hz | | |
| Dielectric Strength | 50Hz: > 2.5 kV | | acc. to IEC 60068-2-6, test Tc 10 G @ 60 - 500 Hz | | |
| Ū. | Impulse 1.2/50 μ s: > 4 kV | | | | |
| Insulation Resistance | 500 VDC > 100 MΩ | | acc. to IEC 60068-2-6, test Tc | | |
| Lifetime | mechanical: 50'000 switching cycles | Shock Resistance | 30 G / 18ms | | |
| | AC: 1 x lr, $\cos \varphi$ 0.6: | | acc. to IEC 60068-2-27, test Ea | | |
| | 50'000 switching cycles | Tripping Type | Thermal | | |
| | DC: 1 x lr. $L/R = 2 - 3$ ms: | Actuation Type | Rocker | | |
| | 50'000 switching cycles | Weight | 29.0 - 31.5g | | |

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

TA35 Rocker 2Pole

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: TA35

| Approval Logo | Certificates | Certification Body | Description |
|-----------------------------|---------------|--------------------|--|
| Ň | VDE Approvals | VDE | VDE Certificate Number: 40019754 |
| c FL [°] us | UL Approvals | UL | UR File Number: E71572 |
| | CCC Approvals | CCC | CCC Certificate Number: 2020970307001846 |

Product standards

Product standards that are referenced

| Design | Standard | Description |
|-----------------------|---|---|
| Designed according to | IEC 60934 | Circuit-breakers for equipment (CBE) |
| Designed according to | UL 1077 | Standard for Supplementary Protectors for Use in Electrical Equipment |
| Designed according to | CSA C22.2 No. 235 | Supplementary Protectors |
| Designed according to | GB 17701 | Circuit-breaker for equipment |
| | Designed according to Designed according to Designed according to | Designed according to IEC 60934 Designed according to UL 1077 Designed according to CSA C22.2 No. 235 |

Application standards

Application standards where the product can be used

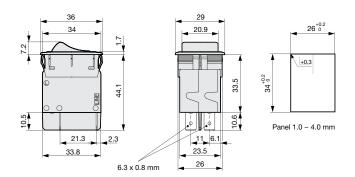
| Organization | Design | Standard | Description |
|--------------|--------------------------------|----------------|--|
| IEC. | Suitable for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |

Compliances

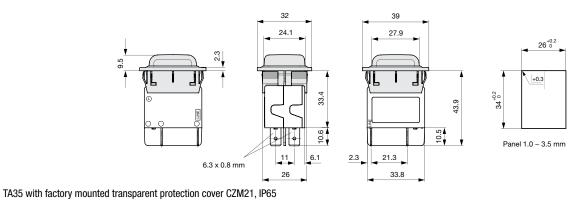
The product complies with following Guide Lines

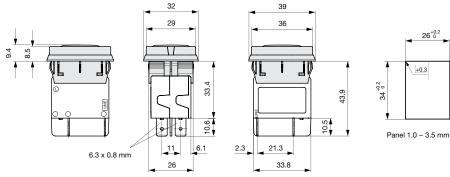
| - F F | J | | |
|----------------|--------------------------------|-------------|---|
| Identification | Details | Initiator | Description |
| CE | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
| UK CA | UKCA declaration of conformity | SCHURTER AG | The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008. |
| RoHS | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
| 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]

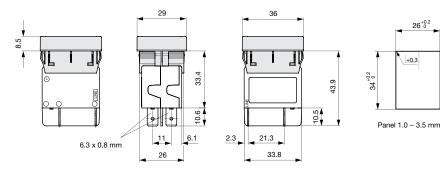


TA35 without protection cover

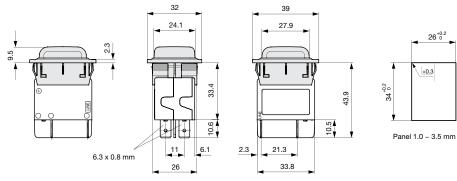




TA35 with factory mounted transparent protection cover and raised collar CZM23, IP65



TA35 with factory mounted raised collar CZM24, IP40

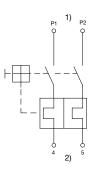


TA35 with factory mounted transparent antibacterial protection cover CZM25, IP65

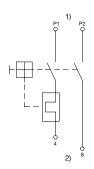
TA35 Rocker 2Pole

Diagrams

2-pole, 2 bimetal, non illuminated

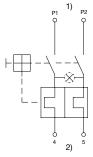


2-pole, 1 bimetal, non illuminated



1) Line, 2) Load

2-pole, 2 bimetal, illuminated

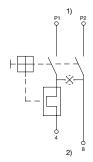




1) Line, 2) Load

1) Line, 2) Load

Codepos AAA = C12, C14, C17, C18, C19



1) Line, 2) Load Codepos AAA = C32, C34, C37, C38, C39

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

| Approval | | Rated current | Rated Voltage AC | Rated Voltage DC |
|-----------------------------|------------------|---------------|------------------|------------------|
| c FN [®] us | UL 1077 | 0.0520 A | 277 V | 32/60 V |
| c AU us | CSA C22.2 235 | 0.0520 A | 277 V | 32/60 V |
| | IEC 60934 | 0.0520 A | 240 V | 32/60 V |
| | GB 17701 | 0.0520 A | 240 V | 60 V |

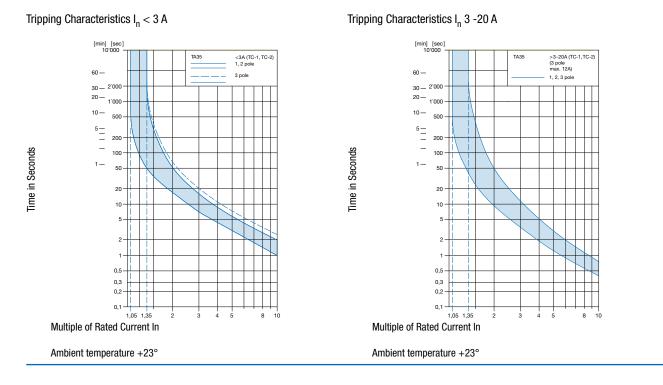
Effect of ambient temperature

The units are calibrated for an ambient temperature of $+23^{\circ}$ 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 | 0.76 |
| -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 = $50 \circ C \rightarrow$ Correction factor = 1.04, Resulting current = $5.2 A \rightarrow$ Round to next higher rated current: 6 A

Time-Current-Curves



Order number key

| T A 3 5 - | СВ | D | W F | z | 0 | 5 | с | 0 | - | 0 | 0 | 0 | - | с | z | M : | 2 | 1 |
|--------------------------------|------------|--------|---------|-------|--------|------|-------|-----|---|---|-----|--------|---|---|---|------------|----|---|
| | 1 | | 2 3 | | 4 | | 5 | | | | 6 | | | | | 7 | | _ |
| | | | | | | | | | | | | | | | | | | |
| Special marking | | | | | | | | | | | | | | | | 0 | | 6 |
| Standard Special marking (X | XX = nla | ceho | der) | | | | | | | | | | | = | | 000 XXX | | |
| opecial marking (A | 007 – pia | leene | | | | | | | | | | | | | | ///// | | |
| Accessories, fact | ory-mou | nted | (opti | onal) |) | | | | | | | | | | | Q | | 7 |
| No accessory | | | | | | | | | | | | | | = | | (blan | k) | |
| | | | | | | | | | | | | \geq | | | | | | |
| Transparent protect | ction cove | er, 2- | -pole, | IP65 | | | | | | | | And a | | = | | CZM | 21 | |
| | | | | | | | | | | | -43 | | | | | | | |
| Transparent protect | ction cove | er wit | h rais | ed co | ollar | 2-r | ole | IP6 | 5 | | | | | = | | CZM | 23 | |
| indicipation protoc | | | in raio | 00.00 | , non, | | ,010, | | • | | E | - And | | | | 0LIII | _0 | |
| | | | | | | | | | | | Ċ | | | | | | | |
| Raised collar, 2-po | le, IP40 | | | | | | | | | | | A A | | = | | CZM | 24 | |
| | | | | | | | | | | | -13 | _ | | | | | | |
| Transparent antiba | cterial pr | otect | tion co | over. | 2-pc | ole. | IP65 | | | | A. | A. | | = | | CZM | 25 | |
| | | | | | - 24 | , | | | | | | d' | | | | 5 | | |



| Rocker leg | Rocker legend, marking | | | | | |
|------------|--------------------------------|--------|--------|--|--|--|
| - 0 | Embossed | = | F | | | |
| OFF | Printed white Printed black | = | H K | | | |
| - 0 | Printed white Printed black | = = | L M | | | |

| Rated c | urre | nt [A] | | | | | | | | 0 | 4 |
|---------|------|-------------|--------|-------|----|------|---|-----|---------|---|-----|
| Thermal | ove | rload prote | ection | | | | | | | | |
| In | | Q | In | Q | Ir | า | | 0 | In | | Q |
| 0.05 A | = | Z05 | 1.1 A | = J11 | 3 | .0 A | = | 030 | 8.0 A | = | 080 |
| 0.10 A | = | J01 | 1.2 A | = J12 | 3 | .2 A | = | 032 | 8.5 A | = | 085 |
| 0.15 A | = | Z15 | 1.3 A | = J13 | 3 | .5 A | = | 035 | 9.0 A | = | 090 |
| 0.20 A | = | J02 | 1.4 A | = J14 | 3 | .7 A | = | 037 | 10.0 A | = | 100 |
| 0.25 A | = | Z25 | 1.5 A | = J15 | 4 | .0 A | = | 040 | 10.5 A | = | 105 |
| 0.30 A | = | J03 | 1.6 A | = J16 | 4 | .2 A | = | 042 | 11.0 A | = | 110 |
| 0.35 A | = | Z35 | 1.7 A | = J17 | 4 | .5 A | = | 045 | 11.5 A | = | 115 |
| 0.40 A | = | J04 | 1.8 A | = J18 | 4 | .7 A | = | 047 | 12.0 A | = | 120 |
| 0.45 A | = | Z45 | 1.9 A | = J19 | 5 | .0 A | = | 050 | 13.0 A* | = | 130 |
| 0.50 A | = | J05 | 2.0 A | = J20 | 5 | .2 A | = | 052 | 14.0 A* | = | 140 |
| 0.60 A | = | J06 | 2.1 A | = J21 | 5 | .5 A | = | 055 | 15.0 A* | = | 150 |
| 0.70 A | = | J07 | 2.2 A | = J22 | 5 | .7 A | = | 057 | 16.0 A* | = | 160 |
| 0.80 A | = | J08 | 2.3 A | = J23 | 6 | .0 A | = | 060 | 17.0 A* | = | 170 |
| 0.90 A | = | J09 | 2.5 A | = J25 | 6 | .5 A | = | 065 | 18.0 A* | = | 180 |
| 1.00 A | = | J10 | 2.8 A | = J28 | 7 | .0 A | = | 070 | 19.0 A* | = | 190 |
| | | | | | 7 | .5 A | = | 075 | 20.0 A* | = | 200 |

(additional current ratings on request)

* 3-Pole max. 12 A

Features

Standard, no other features

Q C0

=

5



| Basic | function | | | | ्र 1 |
|--------------------------------|----------------|-----|--------------|-------|----------|
| Poles | | 1 | | 2 | 3 |
| Thermal overload protection | | P1 | P1 P2 0 0 | P1 P2 | P1 P2 P3 |
| | | | | | |
| Rocke | r | | | | |
| Withou | t illumination | CFT | CBT | CBD | CKD |
| I | 380400 V | - | - | - | CD1 |
| | 220240 V | C2F | C12 | C32 | - |
| | 110120 V | C4F | C14 | C34 | - |
| IΨ | 2026 V | C7F | C17 | C37 | - |
| | 1013 V | C8F | C18 | C38 | - |
| | 47 V | C9F | C19 | C39 | - |
| Mome | ntary | | | | |
| Withou | t illumination | CGT | CET | CED | CLD |

* grey highlighted fields: configuration is not offered anymore

| Front- & Actua | | | | Q | 2 |
|----------------|-----------------------------|--------------------------|---|---|---|
| Front Bezel | Rocker without illumination | Rocker with illumination | | | |
| black | - | clear transparent | = | 1 | |
| black | - | red transparent | = | 3 | |
| black | - | green transparent | = | 4 | |
| black | - | orange transparent | = | 6 | |
| black | black | - | = | В | |
| black | green | - | = | G | |
| black | red | - | = | R | |
| black | white | - | = | W | |
| black | orange | - | = | Х | |
| black | yellow | - | = | Y | |

TA35 Rocker 2Pole

All Variants

| Basic function | Rocker colour | Legend | Rated current | Accessories | Config. Code | Order Number |
|---|-------------------|---------------|---------------|---|-------------------------------|--------------|
| 2-pole, 2 bimetal, without illumination | White | embossed | 3.0 A | Without cover | TA35-CBDWF030C0-000 | 4435.0022 |
| 2-pole, 2 bimetal, without illumination | White | black printed | 3.0 A | Without cover | TA35-CBDWM030C0-000 | 4435.0374 |
| 2-pole, 2 bimetal, without illumination | Black | white printed | 4.0 A | Without cover | TA35-CBDBH040C0-000 | 4435.0276 |
| 2-pole, 2 bimetal, without illumination | White | embossed | 5.0 A | Without cover | TA35-CBDWF050C0-000 | 4435.0039 |
| 2-pole, 1 bimetal, without illumination | White | embossed | 6.0 A | Without cover | TA35-CBTWF060C0-000 | 4435.0042 |
| 2-pole, 2 bimetal, illuminated 240 V | Green transparent | white printed | 6.0 A | Without cover | TA35-C324H060C0-000 | 4435.0265 |
| 2-pole, 1 bimetal, without illumination | White | embossed | 8.0 A | Without cover | TA35-CBTWF080C0-000 | 4435.0046 |
| 2-pole, 1 bimetal, without illumination | Black | white printed | 8.0 A | Without cover | TA35-CBTBL080C0-000 | 4435.0067 |
| 2-pole, 2 bimetal, illuminated 240 V | Blue transparent | white printed | 8.0 A | Transparent cover, IP65 | TA35-C327L080C0-000- CZM21 | 4435.0483 |
| 2-pole, 1 bimetal, without illumination | Black | white printed | 10.0 A | Without cover | TA35-CBTBL100C0-000 | 4435.0012 |
| 2-pole, 1 bimetal, without illumination | White | embossed | 10.0 A | Without cover | TA35-CBTWF100C0-000 | 4435.0047 |
| 2-pole, 2 bimetal, without illumination | White | black printed | 10.0 A | Without cover | TA35-CBDWM100C0-000 | 4435.0091 |
| 2-pole, 1 bimetal, illuminated 240 V | Green transparent | embossed | 10.0 A | Without cover | TA35-C124F100C0-000 | 4435.0187 |
| 2-pole, 2 bimetal, without illumination | White | embossed | 10.0 A | Without cover | TA35-CBDWF100C0-000 | 4435.0195 |
| 2-pole, 2 bimetal, without illumination | White | embossed | 12.0 A | Without cover | TA35-CBDWF120C0-000 | 4435.0304 |
| 2-pole, 2 bimetal, without illumination | Black | embossed | 15.0 A | Without cover | TA35-CBDBF150C0-000 | 4435.0347 |
| 2-pole, 2 bimetal, without illumination | White | black printed | 15.0 A | Raised collar with trans- parent cover, IP65 | TA35-CBDWM150C0- 000-CZM23 | 4435.0423 |
| 2-pole, 1 bimetal, without illumination | White | embossed | 20.0 A | Without cover | TA35-CBTWF200C0-000 | 4435.0002 |
| 2-pole, 2 bimetal, without illumination | White | embossed | 20.0 A | Without cover | TA35-CBDWF200C0-000 | 4435.0013 |
| 2-pole, 2 bimetal, without illumination | Black | white printed | 20.0 A | Without cover | TA35-CBDBL200C0-000 | 4435.0321 |

Most Popular.

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

Packaging Unit

10 Pcs

Accessories

Description



TA35_Accessories Screw-on collar with cover, IP65

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications. 24.08.2023