Thermal (T- and TA-Line) https://www.schurter.com /PG17\_20

## TA35 Rocker 2Pole

#### Circuit Breaker for Equipment thermal, Rocker actuation, 2 pole



illuminated Green transparent White, lettered

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 Red transparent

#### 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

Technical Data			
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. 50trips
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	Vibration Resistance	± 0.75 mm @ 10 - 60 Hz
Degree of Protection	from front side IP40 acc. to IEC 60529		acc. to IEC 60068-2-6, test Tc
Dielectric Strength	50 Hz: > 2.5 kV		10 G @ 60 - 500 Hz
3	Impulse 1.2/50 µs: > 4 kV		acc. to IEC 60068-2-6, test Tc
Insulation Resistance	500 VDC > 100 MΩ	Shock Resistance	30 G / 18ms
Lifetime	mechanical: 50'000 switching cycles		acc. to IEC 60068-2-27, test Ea
	AC: 1 x lr, $\cos \varphi$ 0.6:	Tripping Type	Thermal
	50'000 switching cycles	Actuation Type	Rocker
	DC: $1 \times Ir$ , L/R = 2 - 3 ms:	Weight	29.0 - 31.5g
	50'000 switching cycles		

#### **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
NE .	VDE Approvals	VDE	VDE Certificate Number: 40019754
c <b>FL</b> <sup>°</sup> us	UL Approvals	UL	UL File Number: E71572
	CCC Approvals	CCC	CCC Certificate Number: 2020970307001846

### **Product standards**

Product standards that are referenced

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

#### **Application standards**

Application standards where the product can be used

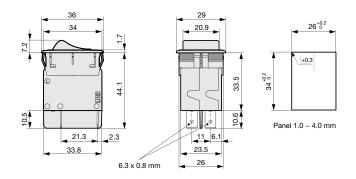
Organization	Design	Standard	Description
I <u>EC</u>	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

#### Compliances

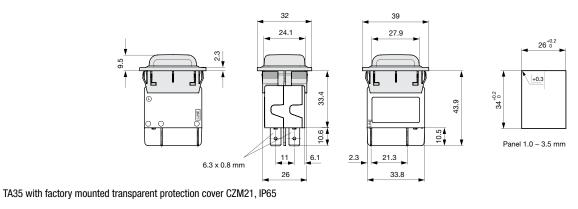
The product complies with following Guide Lines

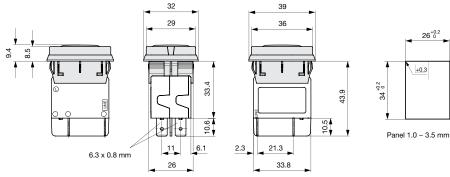
The product complete man following datable lines				
Identification	Details	Initiator	Description	
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.	
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863	
<b>50</b>	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]

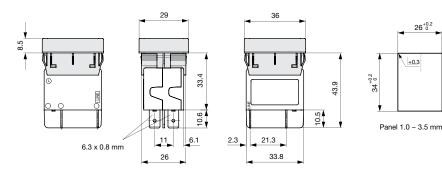


TA35 without protection cover

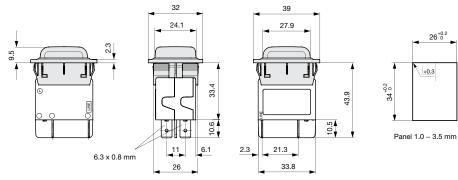




TA35 with factory mounted transparent protection cover and raised collar CZM23, IP65



TA35 with factory mounted raised collar CZM24, IP40

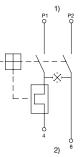


TA35 with factory mounted transparent antibacterial protection cover CZM25, IP65

## TA35 Rocker 2Pole

## Diagrams

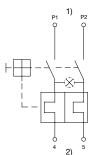
2-pole, 1 bimetal, illuminated



2-pole, 1 bimetal, non illuminated

1) Line, 2) Load Codepos AAA = C12, C14, C17, C18, C19

2-pole, 2 bimetal, illuminated



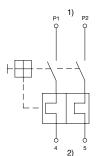


1) Line, 2) Load Codepos AAA = CBT, CET

1) Line, 2) Load

Codepos AAA = CBD, CED

2-pole, 2 bimetal, non illuminated



1)

2)

P2 Q

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 SLL us	UL 1077	0.0520 A	277 V	60 V
c <b>FN</b> <sup>°</sup> us	CSA C22.2 235	0.0520 A	277 V	60 V
	IEC 60934	0.0520 A	240 V	60 V
	GB 17701	0.0520 A	240 V	60 V



#### Typical internal resistance per pole

Typical internal resistance per pole			
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		
* 3-Pole max. 12 A			

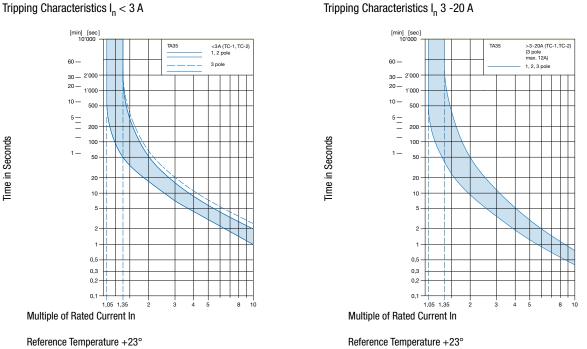
#### Effect of ambient temperature

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 °C --> Correction factor = 1.04, Resulting current = 5.2 A --> Fount to next higher rated current: 6 A

### **Time-Current-Curves**



## 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
2-pole, 1 bimetal, illuminated 240 V	C12
2-pole, 1 bimetal, illuminated 120 V	C14
2-pole, 1 bimetal, illuminated 24 V	C17
2-pole, 1 bimetal, illuminated 12 V	C18
2-pole, 1 bimetal, illuminated 5 V	C19
2-pole, 2 bimetal, illuminated 240 V	C32
2-pole, 2 bimetal, illuminated 120 V	C34
2-pole, 2 bimetal, illuminated 24 V	C37
2-pole, 2 bimetal, illuminated 12 V	C38
2-pole, 2 bimetal, illuminated 5 V	C39
2-pole, 2 bimetal, without illumination	CBD
2-pole, 1 bimetal, without illumination	CBT
2-pole, 2 bimetal, momentary switch, without illumination	CED
2-pole, 1 bimetal, momentary switch, without illumination	CET

## 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	В
Green	G

Rocker colour	Configuration key
Red	R
White	w
Orange	Х
Yellow	Y

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

Legend		Configuration key
embossed	- 0	F
white printed	OFF	Н
black printed	OFF	к
white printed	- 0	L
black printed	- 0	М

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

Rated current	Configuration key
0.05 A	Z05
0.1 A	J01
Other rated currents on request	

**Circuit Breakers** 6 **SCHURTER** ELECTRONIC COMPONENTS

## Tripping Characteristics In 3 -20 A

## TA35 Rocker 2 Pole

Rated current	Configuration key
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
Other rated currents on request	

Rated current	Configuration key
14.0 A	140
15.0 A	150
16.0 A	160
18.0 A	180
20.0 A	200

Other rated currents on request

## TA35 - CBD B F 120 **CO** - CZMXX = Reserve

Reserve	Configuration key
reserve	CO

TA35 - CBD B F 120 C0 - CZMXX = Accessories

Factory mounted accessories	Configuration key
Without cover	
Transparent cover, IP65	CZM21
Raised collar with transparent cover, IP65	CZM23
Raised collar, IP40	CZM24
Transparent cover antibacterial, IP65	CZM25
For subsequent fitting accessories see:	

For subsequent fitting accessories see:

https://www.schurter.com/pdf/english/typ\_TA35\_Accessories.pdf

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

Most Popular.

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

## TA35 Rocker 2Pole

Packaging Unit 10 Pcs

Accessories

Description



TA35 Accessories Screw-on collar with cover, IP65

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