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 colours

Unique Selling Proposition - Unique UL rating of 277 VAC

- Finely graded rated currents

- IP65 with optional cover

- Wide current range

- 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. 40trips
	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	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	50Hz: > 2.5kV		10 G @ 60 - 500 Hz
5	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
2.101.110	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
D'E	VDE Approvals	VDE	VDE Certificate Number: 40019754
c FL us	UL Approvals	UL	UL File Number: E71572
	CCC Approvals	CCC	CCC Certificate Number: 2020970307001846

Product standards

Product standards that are referenced

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

Application standards

Application standards where the product can be used

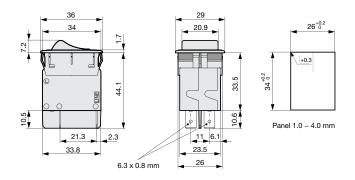
Organization	Design	Standard	Description
I <u>EC</u>	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

Compliances

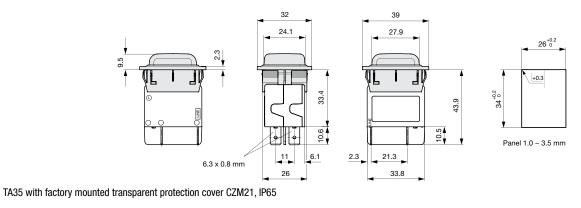
The product complies with following Guide Lines

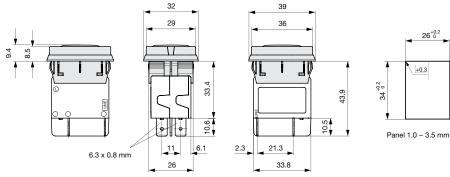
Identification	Details	Initiator	Description			
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.			
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863			
(1)	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]

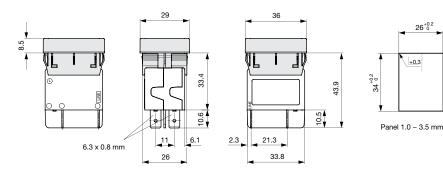


TA35 without protection cover

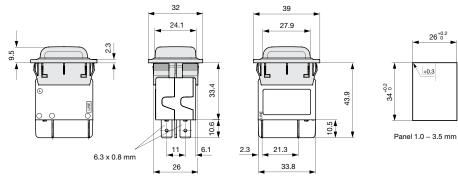




TA35 with factory mounted transparent protection cover and raised collar CZM23, IP65



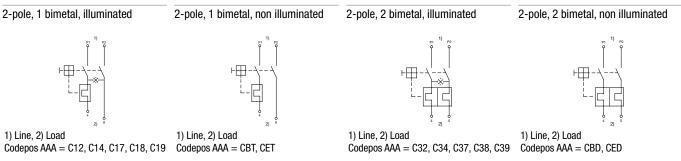
TA35 with factory mounted raised collar CZM24, IP40



TA35 with factory mounted transparent antibacterial protection cover CZM25, IP65

TA35 Rocker 2Pole

Diagrams



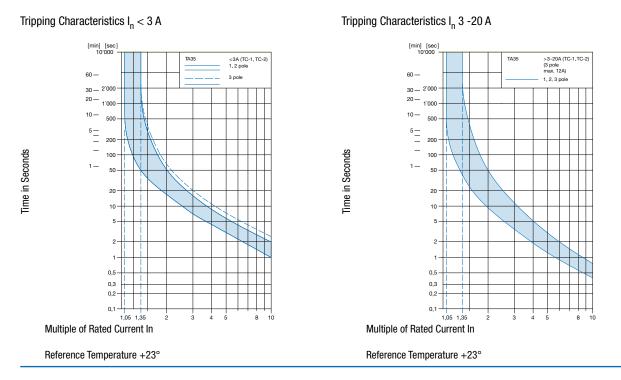
The keys / codepos are listed in the key table of the basic function for selection.

Approval		Rated current	Rated Voltage AC	Rated Voltage DC
c 🗫 us	UL 1077	0.0520 A	277 V	60 V
c FL 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

Rated Current [A]	Internal Resistance [Ω]
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	

Time-Current-Curves



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	0.76
-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

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	ΒF	120	C0 -	CZMXX	= Basic function
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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

Basic function	Configuration key
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

	key
Clear transparent	1
Red transparent	3
Green transparent	4
Orange transparent	6

Configuration

Rocker colour	Configuration key
Blue transparent	7
Black	В
Green	G
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
0.2 A	J02
0.3 A	J03
0.4 A	J04
0.5 A	J05
0.8 A	J08
1.0 A	J10
Other rated currents on request	

	key
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
18.0 A	180
20.0 A	200

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Rated current

TA35 - CBD B F 120 CO - CZMXX = Reserve

Reserve	Configuration key
reserve	CO
IESEIVE	60

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:	

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

Thermal (T- and TA-Line) https://www.schurter.com /PG17_18_19

TA35 Rocker 2Pole

Basic function	Rocker colour	Legend	Rated current	Accessories	Config. Code	Order Number
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

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.