Circuit Breaker for Equipment thermal, Rocker actuation, 2 pole







See below:

Approvals and Compliances

Description

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

Unique Selling Proposition

- Unique UL rating of 277 VAC
- Finely graded rated currents - High configurability (rocker colours, lettering, illumination)
- IP65 with optional cover

Applications

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

Weblinks

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

Technical Data

IEC: 240 V: 50/60 Hz
UL/CSA: 277 V: 50/60 Hz
60 V
0.05 - 20 A
0.0520 A: 2 kA, SC (C1) @ 240 VAC
from front side IP40 acc. to IEC 60529
50Hz: > 2.5 kV
Impulse 1.2/50 µs: > 4 kV
$500\text{VDC} > 100\text{M}\Omega$
mechanical: 50'000 switching cycles
AC: 1 x lr, cos φ 0.6:
50'000 switching cycles
DC: $1 \times Ir$, $L/R = 2 - 3 \text{ ms}$:
50'000 switching cycles

Overload	IEC: min. 40 trips
	@ 6 x lr, cos φ 0.6
	UL / CSA: min. 50 trips
	@ 1.5 x lr, cos φ 0.75
Allowable Operation Temp.	-30°C to 60°C
Vibration Resistance	± 0.75 mm @ 10 - 60 Hz
	acc. to IEC 60068-2-6, test Tc
	10 G @ 60 - 500 Hz
	acc. to IEC 60068-2-6, test Tc
Shock Resistance	30 G / 18ms
	acc. to IEC 60068-2-27, test Ea
Tripping Type	Thermal
Actuation Type	Rocker
Weight	29.0 - 31.5 g

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.

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
Ô ^V E	VDE Approvals	VDE	VDE Certificate Number: 40019754
c FU °us	UL Approvals	UL	UL File Number: E71572
(1)	CQC Approvals	CQC	CCC Certificate Number:

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	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
GROUP CSA	Designed according to	CSA C22.2 No. 235	Supplementary Protectors
(W)	Designed according to	GB 17701	Circuit-breaker for equipment

Application standards

Application standards where the product can be used

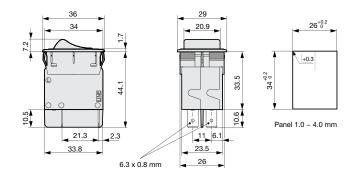
Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

Compliances

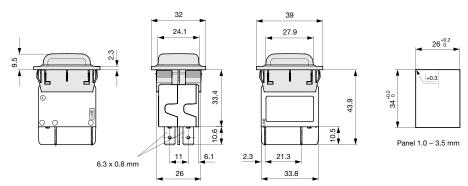
The product complies with following Guide Lines

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	EU Directive RoHS 2011/65/EU
50	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.

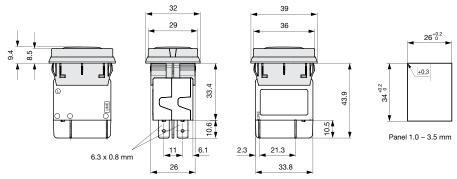
Dimension [mm]



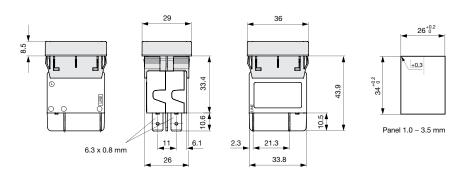
TA35 without protection cover



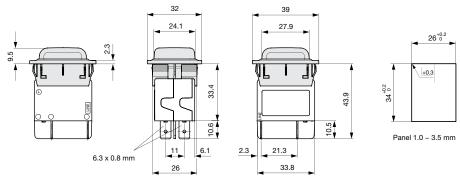
TA35 with factory mounted transparent protection cover CZM21, IP65



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

Diagrams

2-pole, 1 bimetal, illuminated

2-pole, 1 bimetal, non illuminated

2-pole, 2 bimetal, illuminated

2-pole, 2 bimetal, non illuminated







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

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

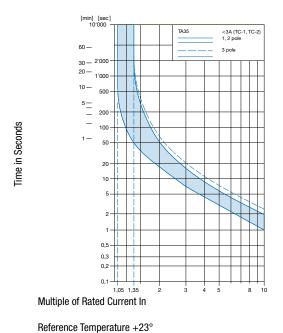
The keys / codepos are listed in the key table of the basic function for selection.

Approval	UL 1077	Rated current 0.0520 A	Rated Voltage AC 277 V	Rated Voltage DC 60 V
c 74 0s	CSA C22.2 235	0.0520 A	277 V	60 V
DE	IEC 60934	0.0520 A	240 V	60 V
(W)	GB 17701	0.0520 A	240 V	60 V

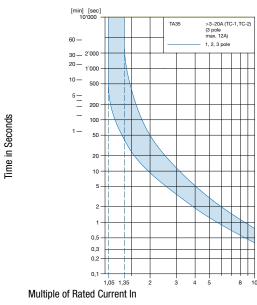
Typical internal resistance

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

Time-Current-Curves



Tripping Characteristics I_n 3 -20 A



Reference Temperature +23°

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 = $50 \, ^{\circ}\text{C}$ --> Correction factor = 1.04, Resulting current = $5.2 \, \text{A}$ --> Fount to next higher rated current: $6 \, \text{A}$

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 CO - CZMXX = Basic function	l
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 \mathbf{B} F 120 C0 - CZMXX = Rocker colour	
Rocker colour	Configuration key
Clear transparent	1
Red transparent	3
Green transparent	4

Rocker colour		Configuration key	Rated current	Configuration key
Orange transparent		6	1.2 A	J12
Blue transparent		7	1.5 A	J15
Black		В	2.0 A	J20
Green		G	2.5 A	J25
Red		R	3.0 A	030
White		W	3.5 A	035
Orange		Х	4.0 A	040
Yellow		Υ	5.0 A	050
			6.0 A	060
TA35 - CBD B F 120 C0 - CZMXX	– I egend		7.0 A	070
1730 - ODD D 1 120 00 - OZIVI/AX	- Legena		8.0 A	080
Legend		Configuration	10.0 A	100
		key	12.0 A	120
embossed	- 0	F	13.0 A	130
			14.0 A	140
			15.0 A	150
white printed	NO GFF	Н	16.0 A	160
			18.0 A	180
black printed	NO FF	K	20.0 A	200
			Other rated currents on request	
white printed	- 0	L	TAGE ORD D 5 100 CO OZNAVA Possania	
black printed	- 0	М	TA35 - CBD B F 120 C0 - CZMXX = Reserve	Configuration
				key
			reserve	CO
TA35 - CBD B F 120 C0 - CZMXX	= Rated current			
Rated current		Configuration key	TA35 - CBD B F 120 C0 - CZMXX = Accessories	
without thermal overload protection / temporarily wit	hout VDF approval	C00	Factory mounted accessories	Configuration
0.05 A	iout 152 approvai	Z05		key
0.1 A		J01	Without cover	071101
0.2 A		J02	Transparent cover, IP65	CZM21
0.3 A		J03	Raised collar with transparent cover, IP65	CZM23
0.4 A		J04	Raised collar, IP40	CZM24
0.5 A		J05	Transparent cover antibacterial, IP65	CZM25
0.8 A		J08	For subsequent fitting accessories see:	
0.071			https://www.schurter.com/pdf/english/typ_TA35_Accessories.pdf	
1.0 A		J10		

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 billietai, without illullilliation	wille	embosseu	3.U A	Williout cover	IA33-CDDWFU3UCU	4433.0022
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

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

Packaging Unit

10 Pcs

Accessories

Description



TA35 Accessories Screw-on collar with cover, IP65