![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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
- High configurability
- Wide current range

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

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

Technical Data

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

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
VDE	VDE Approvals	VDE	VDE Certificate Number: 40019754
cULus	UL Approvals	UL	UL File Number: E71572
CCC	CQC Approvals	CQC	CCC Certificate Number: 2013010307598660

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 Group	Designed according to	CSA C22.2 No. 235	Supplementary Protectors
CCC	Designed according to	GB 17701	Circuit-breaker for equipment

Application standards

Application standards where the product can be used

| Organization	Design	Standard	Description
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technologyequipment.

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	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]
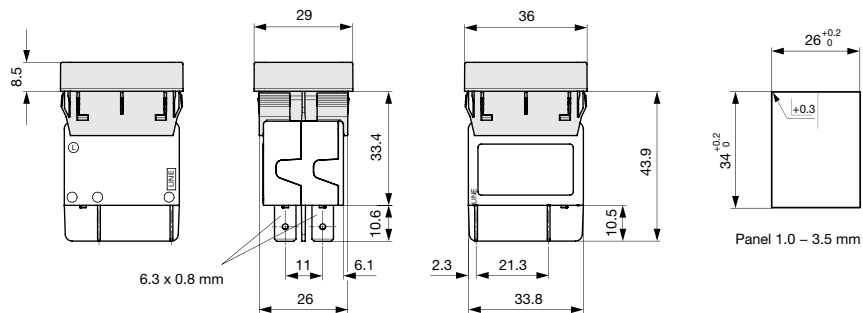

Panel 1.0 – 4.0 mm
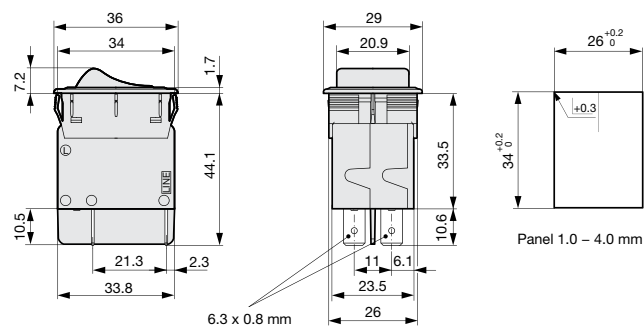
Accessories / CZM21, factory mounted transparent cover, IP65
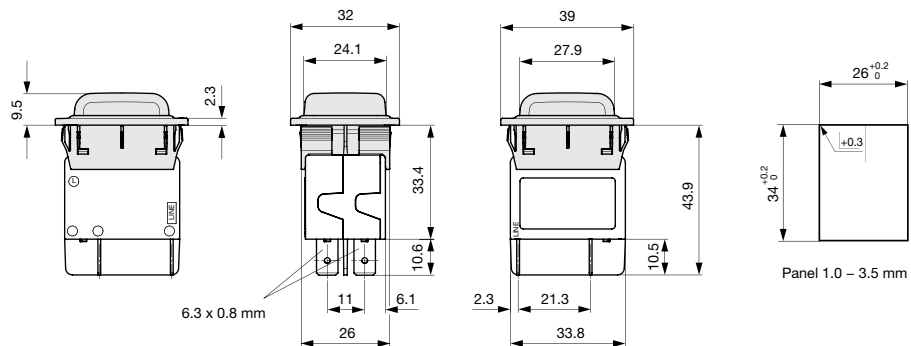

Panel 1.0 – 3.5 mm
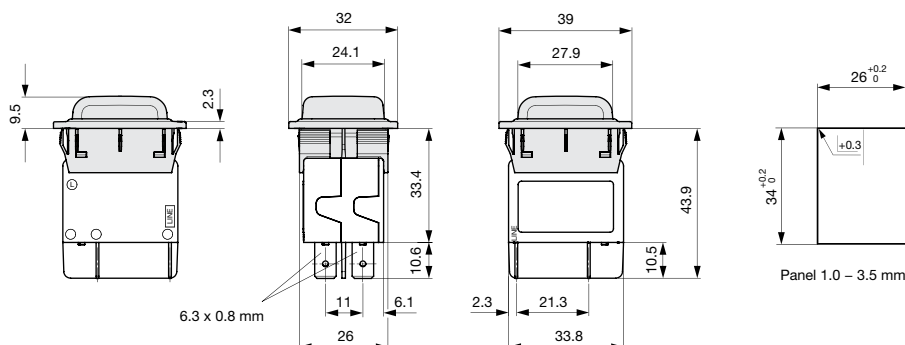
Accessories / CZM23, factory mounted raised collar with transparent cover, IP65

Panel 1.0 – 3.5 mm
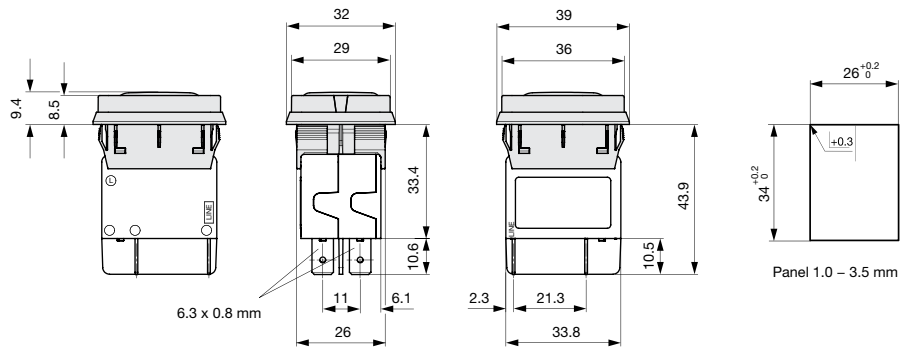
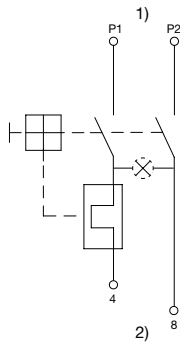Accessories / CZM24, factory mounted raised collar without cover, IP40

Panel 1.0 – 3.5 mm

Accessories / CZM25, factory mounted transparent cover, antibacterial, IP65

Panel 1.0 – 3.5 mm

Diagrams

2-pole, 1 bimetal, illuminated

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

2-pole, 1 bimetal, non illuminated
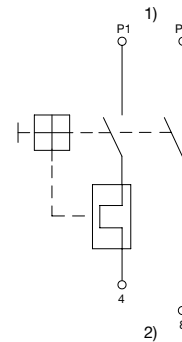
1) Line, 2) Load
Codepos AAA = CBT, CET

2-pole, 2 bimetal, illuminated
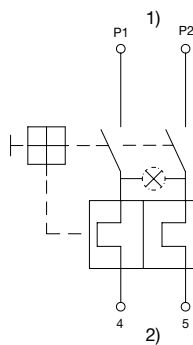
1) Line, 2) Load
Codepos AAA = C32, C34, C37, C38, C39

2-pole, 2 bimetal, non illuminated
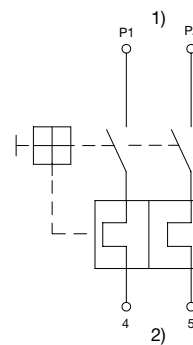
1) Line, 2) Load
Codepos AAA = CBD, CED

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

Approval		Rated current	Rated voltage AC	Rated voltage DC
cULus	UL 1077	0.05...20 A	240 V	60 V
cULus	CSA C22.2 235	0.05...20 A	240 V	60 V
VDE	IEC 60934	0.05...20 A	240 V	60 V
CCC	GB 17701	0.05...20 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

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

Time-Current-Curves

TA35 — <3A (TC-1, TC-2) — 1, 2 pole — 3 pole

Time in Seconds

Multiple of Rated Current In

Reference Temperature +23°

TA35 — >3-20A (TC-1, TC-2) (3 pole max. 12A) — 1, 2, 3 pole

Time in Seconds

Multiple of Rated Current In
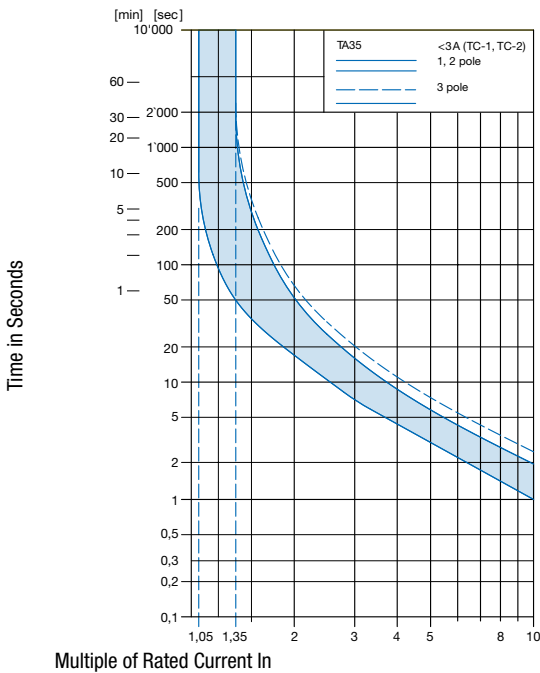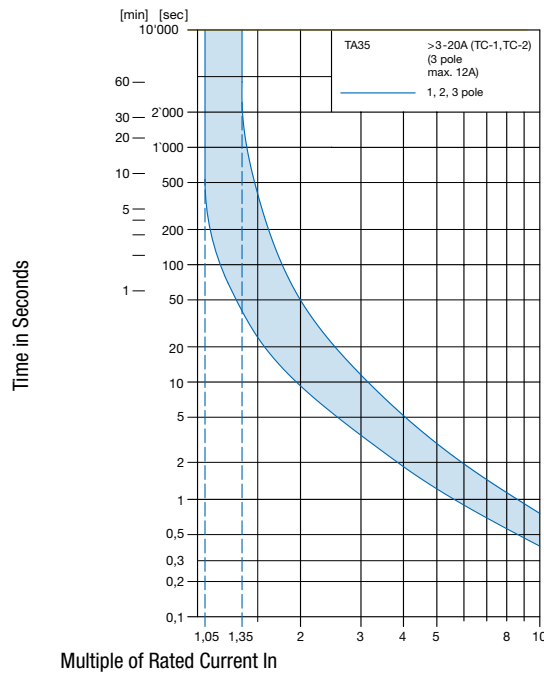
Reference Temperature +23°

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

Rocker colour	Configuration key
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	ON OFF	H
black printed	ON OFF	K
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

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 **C0** - CZMXX **= Reserve**

Reserve	Configuration key
reserve	C0

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:

http://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	White	embossed	15.0 A	Without cover	TA35-CBDWF150C0	4435.0041	▮
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 transparent 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	▮

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

█ 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

19.01.2018