

Circuit Breaker for Equipment thermal, Rocker actuation, 2 pole



Description

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

Standards

- Approval Reference Type: TA35
- VDE Certificate Number: IEC 60934
- UL File Number: UL 1077
- CSA File Number: CSA C22.2 235
- GB Standard: GB 17701

Applications

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

Weblinks

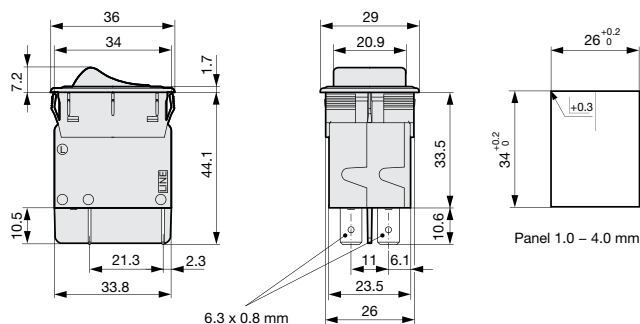
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Product News](#)

Technical Data

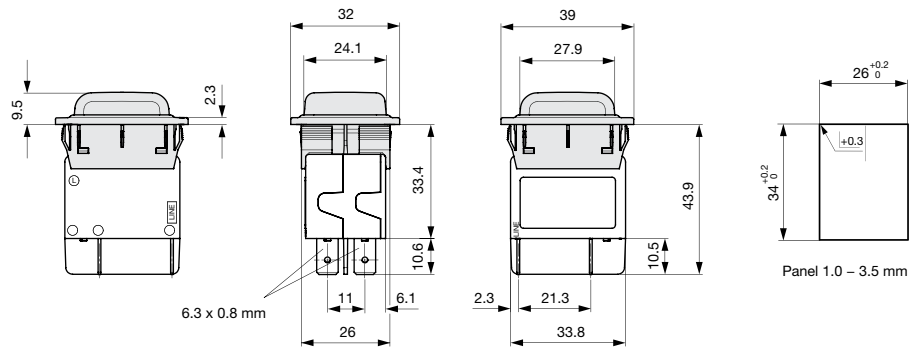
Rated Voltage AC	240 V; 50/60 Hz
Rated Voltage DC	60 V
Rated current range AC	0.05 - 20 A
Conditional short circuit capacity	0.05...20 A: 2 kA, SC (C1) @ 240 VAC
Degree of Protection	from front side IP 40 acc. to IEC 60529
Dielectric Strength	50Hz: > 2.5 kV Impulse 1.2/50 μ s: > 4 kV
Insulation resistance	500 VDC > 100 M Ω
Endurance typical	mechanical: 50'000 switching cycles AC: 1 x I _r , cos ϕ 0.6: 50'000 switching cycles DC: 1 x I _r , L/R = 2 - 3 ms: 50'000 switching cycles

Overload	IEC: min. 40 trips @ 6 x I _r , cos ϕ 0.6 UL / CSA: min. 50 trips @ 1.5 x I _r , cos ϕ 0.75
Ambient temperature	-30 °C to 60 °C
Vibration Resistance	$\pm$ 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 / 18 ms acc. to IEC 60068-2-27, test Ea
Tripping Type	Thermal
Actuation type	Rocker
Weight	29.0 - 31.5 g

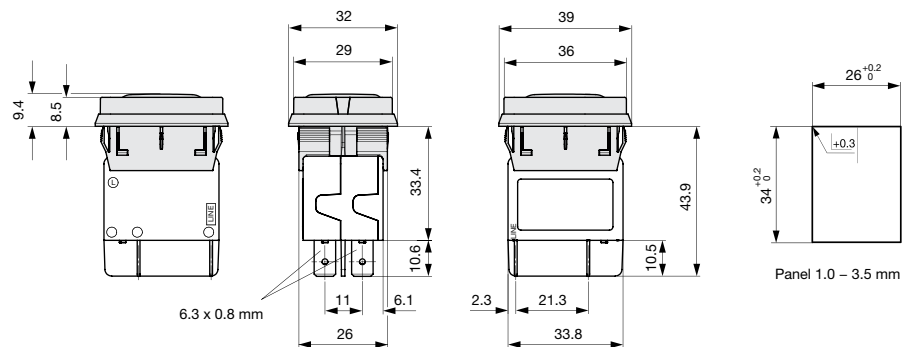
Dimension



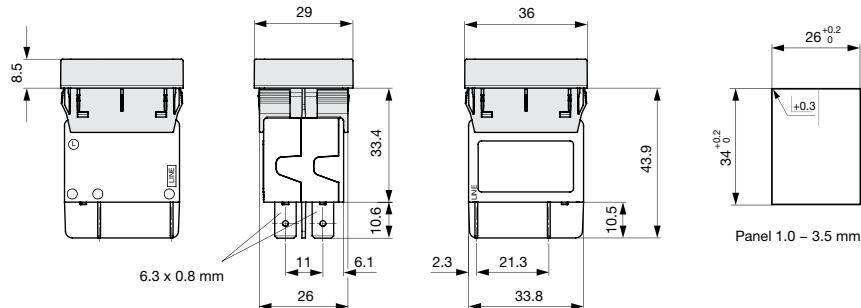
Accessories / CZM21, factory mounted transparent cover, IP65



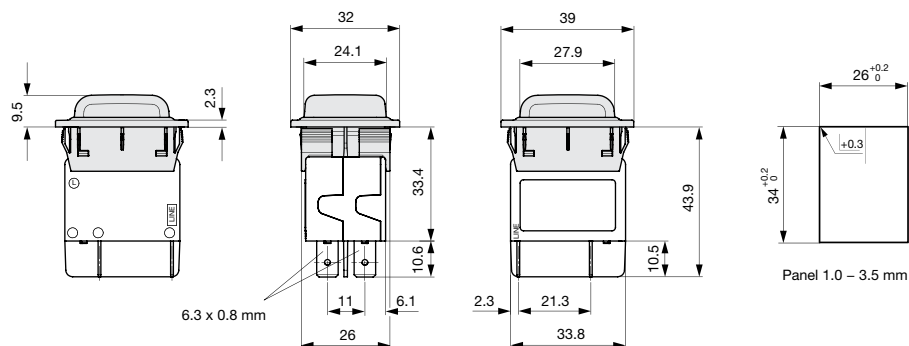
Accessories / CZM23, factory mounted raised collar with transparent cover, IP65



Accessories / CZM24, factory mounted raised collar without cover, IP40

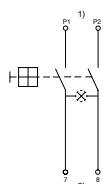


Accessories / CZM25, factory mounted transparent cover, antibacterial, IP65



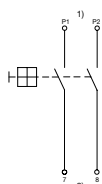
Diagrams

2-pole, 0 bimetal, illuminated



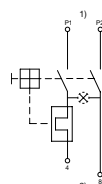
1) Line, 2) Load
Codepos AAA = C02, C04, C07, C08, C09

2-pole, 0 bimetal, non illuminated



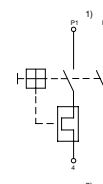
1) Line, 2) Load
Codepos AAA = CBC, CEC

2-pole, 1 bimetal, illuminated



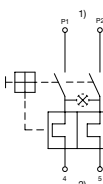
1) Line, 2) Load
Codepos AAA = C12, C14, C17, C18, C19

2-pole, 1 bimetal, non illuminated



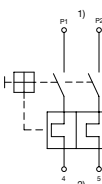
1) Line, 2) Load
Codepos AAA = CBT, CET

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.

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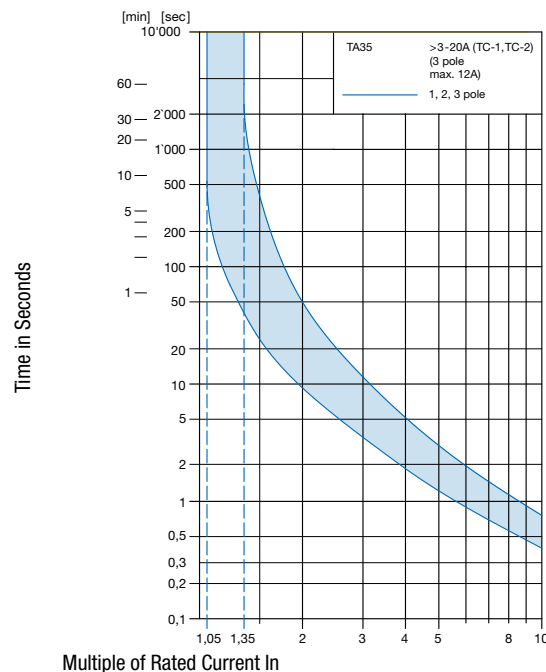
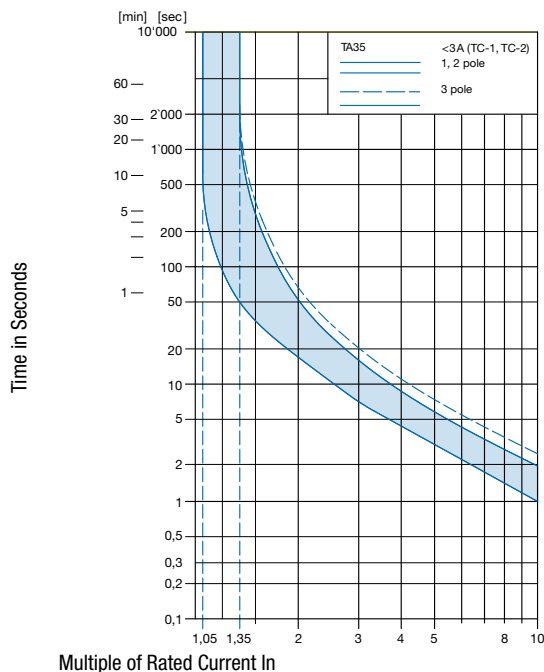
Approvals

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

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** B F 120 C0 - CZMXX = Basic function

Basic function	Configuration key
2-pole, without bimetal, illuminated 240 V	C02
2-pole, without bimetal, illuminated 120 V	C04
2-pole, without bimetal, illuminated 24 V	C07
2-pole, without bimetal, illuminated 12 V	C08
2-pole, without bimetal, illuminated 5 V	C09
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

Basic function

Basic function	Configuration key
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, without bimetal, without illumination	CBC
2-pole, 2 bimetal, without illumination	CBD
2-pole, 1 bimetal, without illumination	CBT
2-pole, without bimetal, momentary switch, without illumination	CEC
2-pole, 2 bimetal, momentary switch, without illumination	CED

Basic function	Configuration key
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	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 	H
black printed 	K
white printed 	L
black printed 	M

TA35 - CBD B F 120 C0 - CZMXX = Rated current

Rated current	Configuration key
without thermal overload protection	C00
0.05 A	Z05
0.1 A	J01
0.2 A	J02
0.3 A	J03

Other rated currents on request

Rated current	Configuration key
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
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 antibacterial, IP65	*CZM25
Transparent cover, IP65	CZM21
Raised collar with transparent cover, IP65	CZM23
Raised collar, IP65	CZM24

For subsequent fitting accessories see:

http://www.schurter.ch/accessory_cbe

*CCC Approval pending

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
2-pole, without bimetal, without illumination	White	embossed	without thermal overload protection	Transparent cover anti-bacterial, IP65	TA35-CBCWFC00C0-CZM25	4435.0702

Most Popular.

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

Packaging Unit 10 Pcs

Accessories

Description



TA35 Accessories
Screw-on collar with cover, IP65