Circuit Breaker for Equipment thermal, Rocker actuation, 1 pole



non-illuminated black



illuminated Green transparent

Description

- Thermal circuit breaker
- 1-pole
- Snap-in version
- Positively trip-free release
- Method of operation acc. to IEC: S-type
- 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

Technical Data

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

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	32 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	
5	Impulse 1.2/50 μ s: > 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 φ 0.6:	Tripping Type	Thermal	
	30'000 switching cycles	Actuation Type	Rocker	
	DC: $1 \times Ir$, $L/R = 2 - 3 \text{ ms:}$	Weight	16.5 - 18.5g	
	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 1 Pole

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 FL [°] us	UL Approvals	UL	UL File Number: E71572
	CCC Approvals	CCC	CCC Certificate Number: 2020970307001846

Product standards

Product standards that are referenced

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

Application standards

Application standards where the product can be used

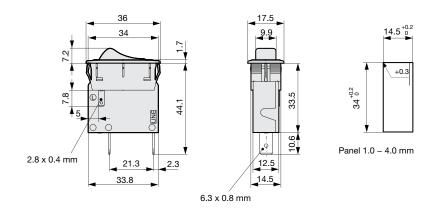
Organization	Design	Standard	Description
I <u>EC</u>	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description	
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	
(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.	

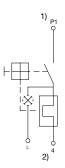
Dimension [mm]



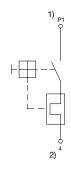
TA35 Rocker 1 Pole

Diagrams

1-pole, 1 bimetal, illuminated



1-pole, 1 bimetal, non illuminated



1) Line, 2) Load Codepos AAA = C2F, C4F, C7F, C8F, C9F

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 SL [°] us	UL 1077	0.0520 A	277 V	32 V
c FL [°] us	CSA C22.2 235	0.0520 A	277 V	32 V
	IEC 60934	0.0520 A	240 V	32 V
	GB 17701	0.0520 A	240 V	32 V

1) Line, 2) Load

Codepos AAA = CFT, CGT

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	

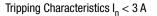
Effect of ambient temperature

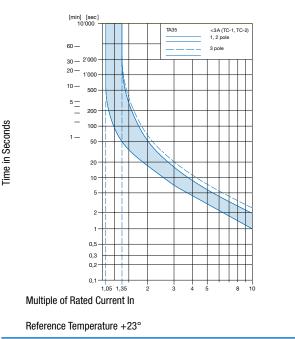
The units are calibrated for an ambient temperature of $+23^{\circ}$ C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

Ambient Temperature [°C]	Correction factor
-30	0.77
-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

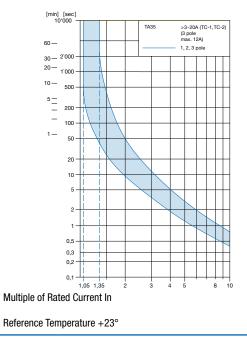
Time-Current-Curves





Tripping Characteristics I_n 3 -20 A

Time in Seconds



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
1-pole, 1 bimetal, illuminated 240 V	C2F
1-pole, 1 bimetal, illuminated 120 V	C4F
1-pole, 1 bimetal, illuminated 24 V	C7F
1-pole, 1 bimetal, illuminated 12 V	C8F
1-pole, 1 bimetal, illuminated 5 V	C9F
1-pole, 1 bimetal, without illumination	CFT
1-pole, 1 bimetal, momentary switch, without illumination	CGT

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
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
1.2 A	J12
1.5 A	J15
2.0 A	J20
Other rated currents on request	

Rated current	Configuration key
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 CO - CZMXX = Reserve

Reserve	Configuration key
reserve	CO
TA35 - CBD B F 120 CO - CZMXX = Accessories	
Factory mounted accessories	Configuration key

Without cover

For subsequent fitting accessories see:

https://www.schurter.com/pdf/english/typ_TA35_Accessories.pdf

All Variants

asic function	Rocker colour	Legend	Rated current	Accessories	Config. Code	Order Number
pole, 1 bimetal, without illumination	White	black printed	2.0 A	Without cover	TA35-CFTWKJ20C0	4435.0029
pole, 1 bimetal, without illumination	White	embossed	3.0 A	Without cover	TA35-CFTWF030C0	4435.0019
pole, 1 bimetal, without illumination	White	black printed	3.0 A	Without cover	TA35-CFTWM030C0	4435.0082
pole, 1 bimetal, illuminated 120 V	Red transparent	white printed	3.0 A	Without cover	TA35-C4F3H030C0	4435.0431
pole, 1 bimetal, without illumination	Red	black printed	3.0 A	Without cover	TA35-CFTRM030C0	4435.0481
pole, 1 bimetal, without illumination	Black	embossed	4.0 A	Without cover	TA35-CFTBF040C0	4435.0028
pole, 1 bimetal, without illumination	Black	embossed	5.0 A	Without cover	TA35-CFTBF050C0	4435.0173
pole, 1 bimetal, without illumination	Black	white printed	5.0 A	Without cover	TA35-CFTBH050C0	4435.0204
pole, 1 bimetal, without illumination	Black	white printed	6.0 A	Without cover	TA35-CFTBH060C0	4435.0205
pole, 1 bimetal, without illumination	Red	embossed	10.0 A	Without cover	TA35-CFTRF100C0	4435.0056
pole, 1 bimetal, without illumination	Black	embossed	10.0 A	Without cover	TA35-CFTBF100C0	4435.0174
pole, 1 bimetal, momentary switch, ithout illumination	Black	embossed	10.0 A	Without cover	TA35-CGTBF100C0	4435.0471
pole, 1 bimetal, without illumination	White	embossed	13.0 A	Without cover	TA35-CFTWF130C0	4435.0049
pole, 1 bimetal, without illumination	White	embossed	15.0 A	Without cover	TA35-CFTWF150C0	4435.0037
pole, 1 bimetal, without illumination	Black	embossed	15.0 A	Without cover	TA35-CFTBF150C0	4435.0137
pole, 1 bimetal, without illumination	Black	white printed	16.0 A	Without cover	TA35-CFTBH160C0	4435.0209

TA35 Rocker 1 Pole

TA35 Rocker 1 Pole

Basic function	Rocker colour	Legend	Rated current	Accessories	Config. Code	Order Number
1-pole, 1 bimetal, without illumination	Black	embossed	16.0 A	Without cover	TA35-CFTBF160C0	4435.0300
1-pole, 1 bimetal, without illumination	Black	white printed	20.0 A	Without cover	TA35-CFTBL200C0	4435.0256

Most Popular.

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

Packaging Unit

Accessories

Description



TA35 Accessories Screw-on collar with cover, IP65

X-ON Electronics

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