#### Thermal (T- and TA-Line) https://www.schurter.com /PG17\_20

# 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 coloursWide current range

Unique Selling Proposition - Unique UL rating of 277 VAC

- Finely graded rated currents

- IP65 with optional cover

- 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. 40 trips			
	UL/CSA : 277 VAC		@ 6 x lr, cos φ 0.6			
Rated Voltage DC	60 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	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 acc. to IEC 60068-2-6, test Tc			
0	Impulse 1.2/50 µs: > 4 kV					
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, $\cos \varphi$ 0.6:	Tripping Type	Thermal			
	50'000 switching cycles	Actuation Type	Rocker			
	DC: 1 x lr, 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
<b>NE</b>	VDE Approvals	VDE	VDE Certificate Number: 40019754
c <b>FL</b> <sup>°</sup> 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 to IEC 60934   Designed according to UL 1077   Designed according to CSA C22.2 No. 235

### **Application standards**

Application standards where the product can be used

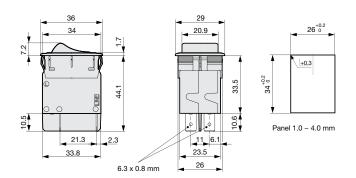
Organization	Design	Standard	Description
IEC.	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

## Compliances

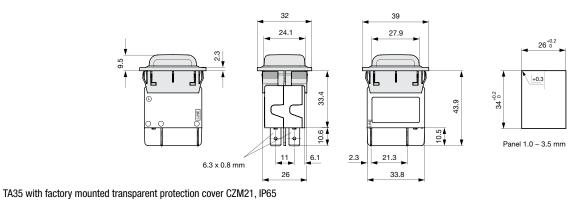
The product complies with following Guide Lines

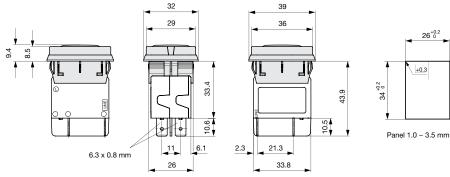
the predater complete th			
Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
<b>50</b>	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]

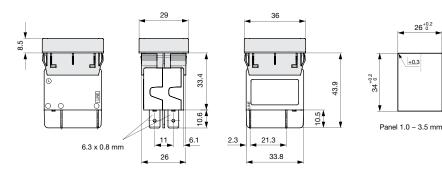


TA35 without protection cover

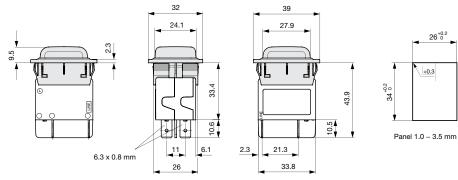




TA35 with factory mounted transparent protection cover and raised collar CZM23, IP65



TA35 with factory mounted raised collar CZM24, IP40

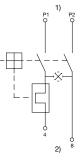


TA35 with factory mounted transparent antibacterial protection cover CZM25, IP65

# TA35 Rocker 2Pole

# Diagrams

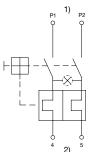
2-pole, 1 bimetal, illuminated



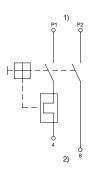


Codepos AAA = C12, C14, C17, C18, C19

2-pole, 2 bimetal, illuminated



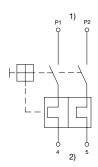
2-pole, 1 bimetal, non illuminated



1) Line, 2) Load

1) Line, 2) Load

2-pole, 2 bimetal, non illuminated



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

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 <b>FL</b> <sup>°</sup> us	UL 1077	0.0520 A	277 V	32/60 V
c <b>FL</b> us	CSA C22.2 235	0.0520 A	277 V	32/60 V
	IEC 60934	0.0520 A	240 V	32/60 V
	GB 17701	0.0520 A	240 V	60 V

#### **Circuit Breakers** 4 **SCHURTER**

ELECTRONIC COMPONENTS

#### Typical internal resistance per pole

Typical internal resis	lance per pole
Rated Current [A]	Internal Resistance [ $\Omega$ ]
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	

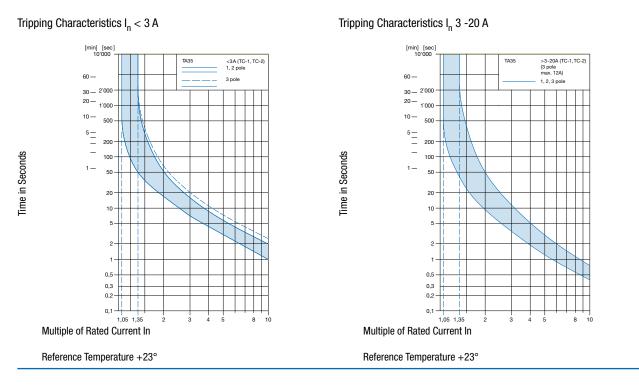
### Effect of ambient temperature

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	0.76	
-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**





Basic	function				୍ଦ୍ଧ 1		
Poles		1		3			
Therma protect	al overload ion	P1	P1 P2 0 0	P1 P2	P1 P2 P3		
Illumina	ation						
Rocke	r						
Withou	it illumination	CFT	CBT	CBD	CKD		
	380400 V	-	-	-	CD1		
	220240 V	C2F	C12	C32	-		
	110120 V	C4F	C14	C34	-		
IΨ	2026 V	C7F	C17	C37	-		
	1013 V	C8F	C18	C38	-		
I	47 V	C9F			-		
Mome	ntary						
Withou	it illumination	CGT	CET	CED	CLD		

\* grey highlighted fields: configuration is not offered anymore

Front- & Actua Front Bezel	tion color Rocker without illumination	Rocker with illumination		Q,	2
black	-	clear transparent	=	1	
black	-	red transparent	=	3	
black	-	green transparent	=	4	
black	-	orange transparent	=	6	
black	black	-	=	В	
black	green	-	=	G	
black	red	-	=	R	
black	white	-	=	W	
black	orange	-	=	Х	
black	yellow	-	=	Y	

Т	Α	3	5	-	С	в	D	w	F	z	0	5	с	0	-	0	0	0	-	С	z	м	2	1
						1		2	3		4		ł	5			6					7		
Roo	cker	leg	end	l, ma	arki	ng																Q		3
-	- 0	,			Em	bos	sed													=		F		
	N HO					nted nted														=		H K		
-	- 0	,				nted nted														=		L M		

# Rated current [A]

Rated c		nt [A] rload prote	ection						Q	4
In			In	0	In		0	In		0
0.05 A	=	Z05	1.1 A	= J11	3.0	A =	030	8.0 A	=	080
0.10 A	=	J01	1.2 A	= J12	3.2	A =	032	8.5 A	=	085
0.15 A	=	Z15	1.3 A	= J13	3.5	A =	035	9.0 A	=	090
0.20 A	=	J02	1.4 A	= J14	3.7	A =	037	10.0 A	=	100
0.25 A	=	Z25	1.5 A	= J15	4.0	A =	040	10.5 A	=	105
0.30 A	=	J03	1.6 A	= J16	4.2	A =	042	11.0 A	=	110
0.35 A	=	Z35	1.7 A	= J17	4.5	A =	045	11.5 A	=	115
0.40 A	=	J04	1.8 A	= J18	4.7	A =	047	12.0 A	=	120
0.45 A	=	Z45	1.9 A	= J19	5.0	A =	050	13.0 A*	=	130
0.50 A	=	J05	2.0 A	= J20	5.2	A =	052	14.0 A*	=	140
0.60 A	=	J06	2.1 A	= J21	5.5	A =	055	15.0 A*	=	150
0.70 A	=	J07	2.2 A	= J22	5.7	A =	057	16.0 A*	=	160
0.80 A	=	J08	2.3 A	= J23	6.0	A =	060	17.0 A*	=	170
0.90 A	=	J09	2.5 A	= J25	6.5	A =	065	18.0 A*	=	180
1.00 A	=	J10	2.8 A	= J28	7.0	A =	070	19.0 A*	=	190
					7.5	A =	075	20.0 A*	=	200

(additional current ratings on request)

\* 3-Pole max. 12 A

#### Features

Standard, no other features

0 5 C0

=

T A 3 5 - C B D W F Z 0 5 C 0 - 0	0 0	- C Z	M 2 1		
1 2 3 4 5	6		7		
Special marking		=	<b>%</b> 6		
Standard Special marking (XXX = placehoder)	Standard Special marking (XXX = placeboder)				
Accessories, factory-mounted (optional)			Q 7		
No accessory		=	(blank)		
Transparent protection cover, 2-pole, IP65		=	CZM21		
	-43				
Transparent protection cover with raised collar, 2-pole, IP65			CZM23		
	and the second		OLINEO		
Raised collar, 2-pole, IP40		=	CZM24		
	10				
Transparent antibacterial protection cover, 2-pole, IP65		=	CZM25		

# 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-CBDWF030C0-000	4435.0022
2-pole, 2 bimetal, without illumination	White	black printed	3.0 A	Without cover	TA35-CBDWM030C0-000	4435.0374
2-pole, 2 bimetal, without illumination	Black	white printed	4.0 A	Without cover	TA35-CBDBH040C0-000	4435.0276
2-pole, 2 bimetal, without illumination	White	embossed	5.0 A	Without cover	TA35-CBDWF050C0-000	4435.0039
2-pole, 1 bimetal, without illumination	White	embossed	6.0 A	Without cover	TA35-CBTWF060C0-000	4435.0042
2-pole, 2 bimetal, illuminated 240 V	Green transparent	white printed	6.0 A	Without cover	TA35-C324H060C0-000	4435.0265
2-pole, 1 bimetal, without illumination	White	embossed	8.0 A	Without cover	TA35-CBTWF080C0-000	4435.0046
2-pole, 1 bimetal, without illumination	Black	white printed	8.0 A	Without cover	TA35-CBTBL080C0-000	4435.0067
2-pole, 2 bimetal, illuminated 240 V	Blue transparent	white printed	8.0 A	Transparent cover, IP65	TA35-C327L080C0-000- CZM21	4435.0483
2-pole, 1 bimetal, without illumination	Black	white printed	10.0 A	Without cover	TA35-CBTBL100C0-000	4435.0012
2-pole, 1 bimetal, without illumination	White	embossed	10.0 A	Without cover	TA35-CBTWF100C0-000	4435.0047
2-pole, 2 bimetal, without illumination	White	black printed	10.0 A	Without cover	TA35-CBDWM100C0-000	4435.0091
2-pole, 1 bimetal, illuminated 240 V	Green transparent	embossed	10.0 A	Without cover	TA35-C124F100C0-000	4435.0187
2-pole, 2 bimetal, without illumination	White	embossed	10.0 A	Without cover	TA35-CBDWF100C0-000	4435.0195
2-pole, 2 bimetal, without illumination	White	embossed	12.0 A	Without cover	TA35-CBDWF120C0-000	4435.0304
2-pole, 2 bimetal, without illumination	Black	embossed	15.0 A	Without cover	TA35-CBDBF150C0-000	4435.0347
2-pole, 2 bimetal, without illumination	White	black printed	15.0 A	Raised collar with trans- parent cover, IP65	TA35-CBDWM150C0- 000-CZM23	4435.0423
2-pole, 1 bimetal, without illumination	White	embossed	20.0 A	Without cover	TA35-CBTWF200C0-000	4435.0002
2-pole, 2 bimetal, without illumination	White	embossed	20.0 A	Without cover	TA35-CBDWF200C0-000	4435.0013
2-pole, 2 bimetal, without illumination	Black	white printed	20.0 A	Without cover	TA35-CBDBL200C0-000	4435.0321

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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



DIN Plug/Socket Screw-on collar with cover, IP65

TA35 Accessories Screw-on collar with cover, IP65

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