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 colours

Unique Selling Proposition - Unique UL rating of 277 VAC

- Finely graded rated currents

- IP65 with optional cover

Ta alamia al Data

- Wide current range

- 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

References

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. 40trips		
-	UL/CSA : 277 VAC		@ 6 x lr, cos φ 0.6		
Rated Voltage DC	60 VDC		UL / CSA: min. 50 trips		
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	Storage Temperature	-40 °C to 60 °C		
Degree of Protection	front side IP40 acc. to IEC 60529	Vibration Resistance	± 0.75 mm @ 10 - 60 Hz		
Dielectric Strength	50Hz: > 2.5kV		acc. to IEC 60068-2-6, test Tc		
5	Impulse 1.2/50 μ s: > 4 kV		10 G @ 60 - 500 Hz		
Insulation Resistance	500 VDC > 100 MΩ		acc. to IEC 60068-2-6, test Tc		
Lifetime	mechanical: 50'000 switching cycles	Shock Resistance	30 G / 18ms		
	AC: 1 x lr, $\cos \varphi$ 0.6:		acc. to IEC 60068-2-27, test Ea		
	50'000 switching cycles	Tripping Type	Thermal		
	DC: 1 x lr, $L/R = 2 - 3$ ms:	Actuation Type	Rocker		
	50'000 switching cycles	Weight	29.0 - 31.5g		

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
Ň	VDE Approvals	VDE	VDE Certificate Number: 40019754
c FL [°] us	UL Approvals	UL	UR 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

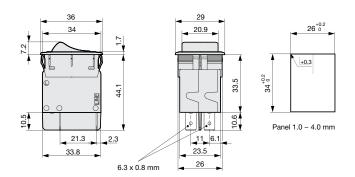
Organization	Design	Standard	Description
IEC.	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

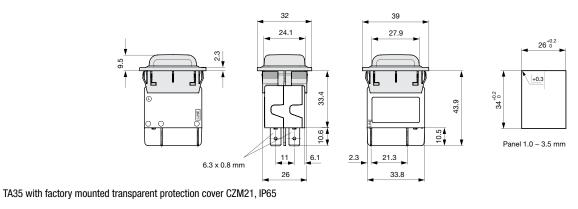
The product complies with following Guide Lines

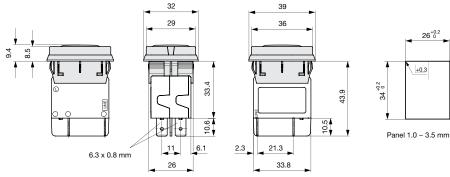
- F F	5		
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	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
5 0	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]

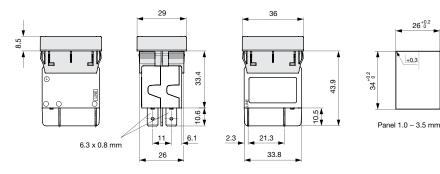


TA35 without protection cover

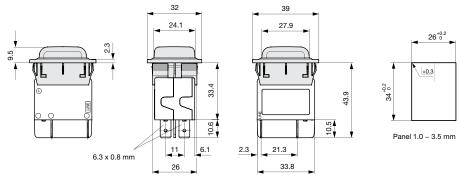




TA35 with factory mounted transparent protection cover and raised collar CZM23, IP65



TA35 with factory mounted raised collar CZM24, IP40

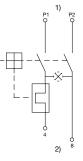


TA35 with factory mounted transparent antibacterial protection cover CZM25, IP65

TA35 Rocker 2Pole

Diagrams

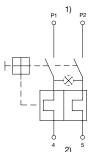
2-pole, 1 bimetal, illuminated



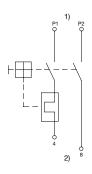


Codepos AAA = C12, C14, C17, C18, C19

2-pole, 2 bimetal, illuminated



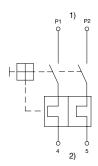
2-pole, 1 bimetal, non illuminated



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 FL us	UL 1077	0.0520 A	277 V	32/60 V
c FL [°] 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

4 | **B.SCHURTER** | Circuit Breakers

Typical internal resistance per pole

Typical internal resis	lance 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	

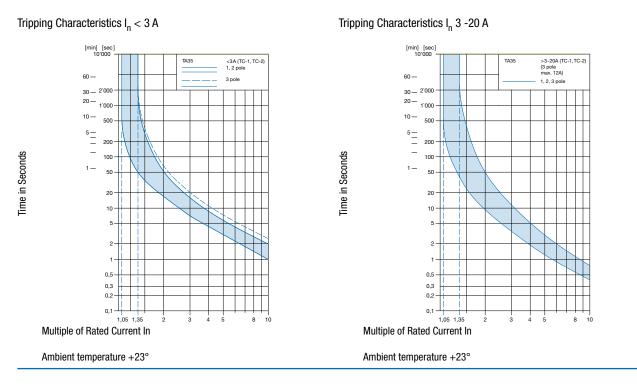
Effect of ambient temperature

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:

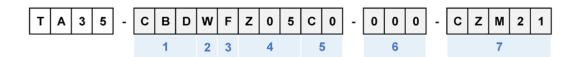
Ambient Temperature [°C]	Correction factor
-30	0.76
-20	0.81
0	0.90
+23	1.00
+40	1.03
+50	1.04
+60	1.06

Example: Rated current = 5 A, Environmental temperature = 50 °C --> Correction factor = 1.04, Resulting current = 5.2 A --> Round to next higher rated current: 6 A

Time-Current-Curves



Order number key



Basic	function				୍ଦ୍ଧ 1	
Poles		1	2	3		
Therma protecti	al overload ion	P1	P1 P2 0 0	P1 P2	P1 P2 P3	
Illumina	ation					
Rocker	r					
Withou	t 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	-	
	47 V	C9F	C19	C39	-	
Momer	ntary					
Withou	t illumination	CGT	CET	CED	CLD	

* grey highlighted fields: configuration is not offered anymore

Front- & Actua				Q	2
Front Bezel	Rocker without illumination	Rocker with illumination			
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		Q	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 -	СВ	DW	F	Z 0	5	C 0] -	0	0	0	-	с	z	м	2	1
	1	2	3	4		5			6					7		
Special marking														Q		6
Standard									=		000 XXX					
Special marking (XXX = placehoder)									-							
Accessories fact		ntad (ontio	nal)										Q		7
Accessories, fact No accessory	ory-mou	nteu (o	optio	mai)								=		(blan	k)	1
-																
Transparent protect	Transparent protection cover, 2-pole, IP65								=		CZM	21				
										d.						
									Ć							
Transparent protection cover with raised collar, 2-pole, IP65								=		CZM	23					
										~						
Paicod collar, 2 pa										AF		=		CZM	24	
Raised collar, 2-pc	ne, 1640									J.		-		CZIVI	24	
Transparent antiba	acterial pr	rotectio	n co	ver, 2-p	ole,	IP65			A.	1		=		CZM	25	
									The second	4						

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

Most Popular.

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

Packaging Unit

10 Pcs

Accessories

Description



TA35_Accessories Screw-on collar with cover, IP65