TA35 Rocker 2Pole

Circuit Breaker for Equipment thermal and thermal-magnetic, Rocker actuation, 2 pole



Non-illuminated black with magnet module

Description

Snap-in versionPositively trip-free release

- Different rocker colours

Unique Selling Proposition

- Finely graded rated currents

- IP65 with optional cover

- Wide current range

- 2-pole

- Circuit breaker thermal and thermal-magnetic

- Method of operation acc. to IEC: S-type

- Magnetic Release for short-circuit protection

- High configurability (rocker colours, lettering, illumination)



illuminated Green transparent White, lettered



Non-illuminated white

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

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. 50 trips			
Rated current range AC	0.05 - 20 A / Magnetic up to 16 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: > 2.5 kV		acc. to IEC 60068-2-6, test Tc			
-	Impulse 1.2/50		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 φ 0.6:		acc. to IEC 60068-2-27, test Ea			
	50'000 switching cycles	Tripping Type	Thermal			
	DC: $1 \times Ir$, $L/R = 2 - 3 \text{ ms:}$	Possible Tripping Types	Thermal-Magnetic			
	50'000 switching cycles	Actuation Type	Rocker			
		Weight	32g - magnetic 56g			

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
NE	VDE Approvals	VDE	VDE Certificate Number: 40019754
c AL us	UL Approvals	UL	UR File Number: E71572
	CCC Approvals	CCC	CCC Certificate Number: 2024010307676639

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)
(YL)	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
	Designed according to	GB 17701	Circuit-breaker for equipment

Application standards

Application standards where the product can be used

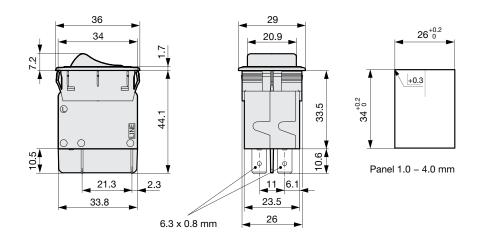
Organization	Design	Standard	Description
IEC	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

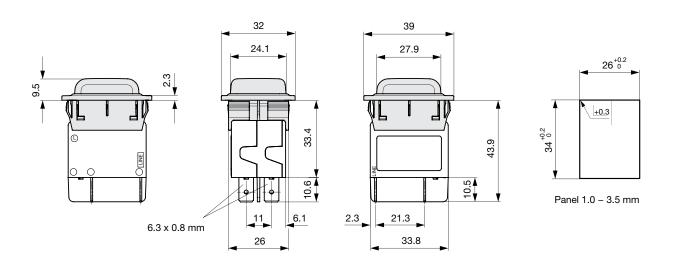
The product complies with following Guide Lines

1 1	0		
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.

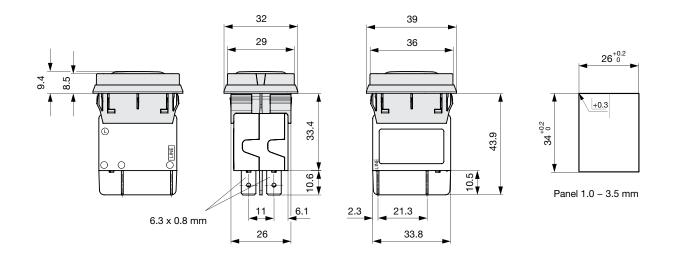
Dimension [mm]



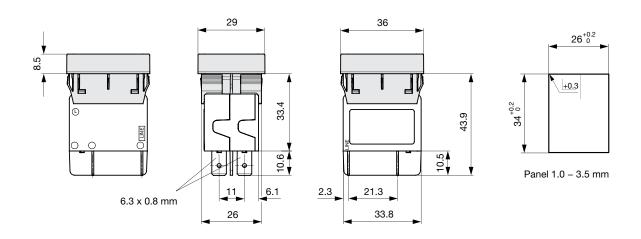
TA35 without protection cover



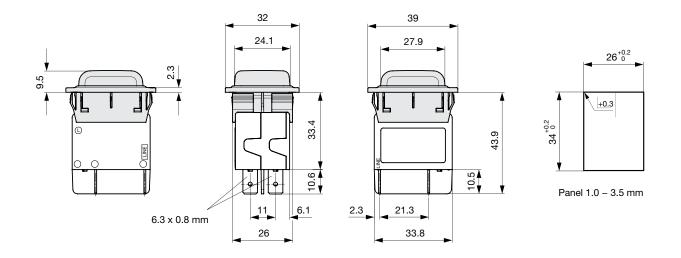
TA35 with factory mounted transparent protection cover CZM21, IP65



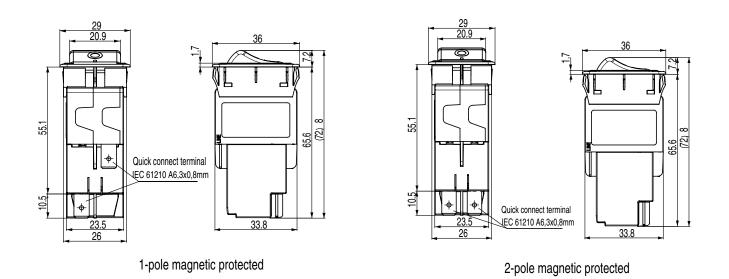
TA35 with factory mounted transparent protection cover and raised collar CZM23, IP65



TA35 with factory mounted raised collar CZM24, IP40



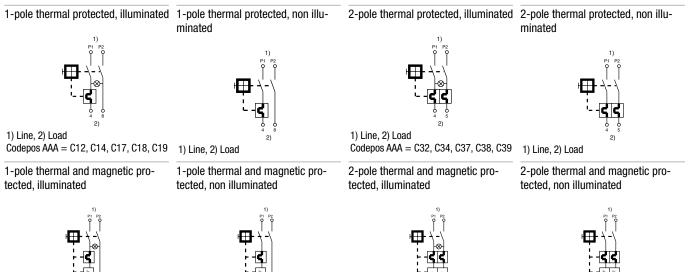
TA35 with factory mounted transparent antibacterial protection cover CZM25, IP65



TA35 1- and 2-pole protected

TA35 Rocker 2Pole

Diagrams



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

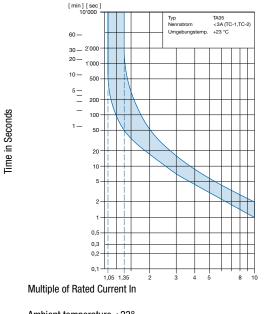
Approval		Rated current	Rated Voltage AC	Rated Voltage DC
	UL 1077	0.0520 A	277 V	32/60 V
	CSA C22.2 235	0.0520 A	277 V	32/60 V
	IEC 60934	0.0520 A	240 V	32/60 V
	GB 17701	0.0520 A	240 V	60 V

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	

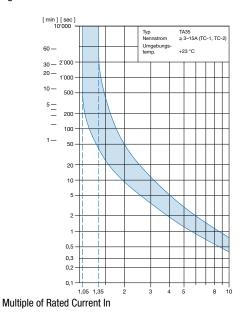
Tripping Characteristics thermal $I_n < 3 A$

Thermal (T- and TA-Line) https://www.schurter.com /PG17_18_19



Ambient temperature +23°

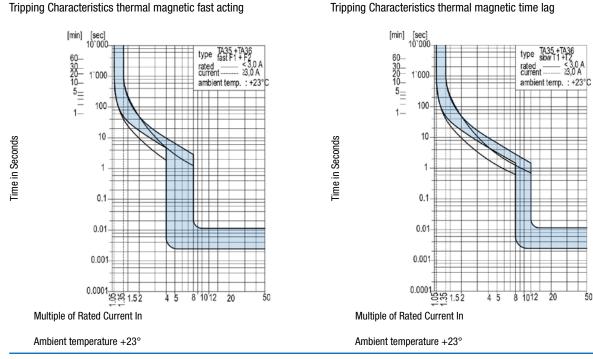
Tripping Characteristics thermal In $\geq 3 \dots \leq 15 \text{ A}$



Ambient temperature +23°

Time in Seconds

Tripping Characteristics thermal magnetic fast acting



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

Order number key

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		Ę	5			6					7		

Basic	function				۹ 1
Poles		1		2	3
Therma protecti	al overload ion	P1	P1 P2	P1 P2	P1 P2 P3
Illumina	ation				
Rocker	r				
Without	t illumination	CFT	CBT	CBD	CKD
1	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				
Without	t illumination	CGT	CET	CED	CLD

* grey highlighted fields: configuration is not offered anymore

Front- & Actua	tion color			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	-	blue transparent	=	7	
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
									-		4		_									7		

Rocker leg	end, marking		Q	3
- 0	Embossed	=	F	
ON OFF	Printed white Printed black	= =	H K	
- 0	Printed white Printed black	= =	L M	

										~	
Rated c										Q	4
Thermal	over	load prot	ection								
In		Q	In	Q		n		Q	In		Q
0.05 A	=	Z05	1.1 A	= J11	3	3.0 A*	=	030	8.0 A*	=	080
0.10 A	=	J01	1.2 A	= J12	3	3.2 A	=	032	8.5 A	=	085
0.15 A	=	Z15	1.3 A	= J13	3	3.5 A	=	035	9.0 A	=	090
0.20 A	=	J02	1.4 A	= J14	3	3.7 A	=	037	10.0 A*	=	100
0.25 A	=	Z25	1.5 A	= J15	4	1.0 A*	=	040	10.5 A	=	105
0.30 A	=	J03	1.6 A	= J16	4	1.2 A	=	042	11.0 A	=	110
0.35 A	=	Z35	1.7 A	= J17	2	1.5 A	=	045	11.5 A	=	115
0.40 A	=	J04	1.8 A	= J18	4	4.7 A	=	047	12.0 A*	=	120
0.45 A	=	Z45	1.9 A	= J19	5	5.0 A*	=	050	13.0 A	=	130
0.50 A	=	J05	2.0 A*	= J20	5	5.2 A	=	052	14.0 A	=	140
0.60 A	=	J06	2.1 A	= J21	5	5.5 A	=	055	15.0 A*	=	150
0.70 A	=	J07	2.2 A	= J22	5	5.7 A	=	057	16.0 A*	=	160
0.80 A	=	J08	2.3 A	= J23	6	6.0 A*	=	060	17.0 A	=	170
0.90 A	=	J09	2.5 A	= J25	e	6.5 A	=	065	18.0 A	=	180
1.00 A*	=	J10	2.8 A	= J28	7	7.0 A	=	070	19.0 A	=	190
					7	7.5 A	=	075	20.0 A	=	200

* Available with magnetic release (additional rated currents on request)

Characteristic Magnetic Release		Q	5
Standard, no other features	=	C0	
1-pole, time lag	=	T1	
2-poles, time lag	=	T2	
1-pole, fast acting	=	F1	
2-poles, fast acting	=	F2	

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		5				6					7		
Spe	ecia	l ma	rkir	ng																		Q		6
	ndar																			=		000		
Spe	ecial	ma	rking	g (X	XX :	= pla	aceh	lode	er)											=		XX	X	
Acc	ess	orie	es, f	acto	ory-I	mοι	inte	d (c	ptic	onal)											Q,		7
No	acce	esso	ory																	=		(bla	nk)	
Tra	nspa	aren	t pro	otec	tion	cov	er,	2-ро	ole,	IP65	5						1977			=		CZI	M21	
																	11	A						
Tra	nspa	aren	t pro	otec	tion	cov	er w	/ith r	aise	ed co	ollar	, 2- ¢	oole, l	P6	5		100			=		CZI	M23	
																	10	Je s						
																	1							
Rai	sed	colla	ar, 2	2-po	le, IF	P 40											100	1.		=		CZI	M24	
																	- EE	- A						
																		\rightarrow						
Tra	nspa	aren	t an	tiba	cteri	al p	rote	ctio	n co	ver,	2-р	ole,	IP65				1000	2		=		CZI	M25	
																	-	\triangleleft						

Variants

Basic function	Rocker colour	Legend	Rated current	Accessories	Config. Code	Order Number
Dasic IUIIGUUII	NUCKEI COIOUI	Leyenu	naleu current	AUCESSURES	Coning. Code	
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, w/o illum., magnetic T2	White	black printed	10.0 A	Without cover	TA35-CBDWM100T2-000	3-150-705
2-pole, 2 bimetal, w/o illum., magnetic F2	White	black printed	10.0 A	Without cover	TA35-CBDWM100F2-000	3-150-706
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, 2 bimetal, w/o illum., magnetic F2	White	embossed	16.0 A	Without cover	TA35-CBDWF160F2-000	3-147-647
2-pole, 2 bimetal, illuminated, ma- gnetic F2	Green transparent	embossed	16.0 A	Without cover	TA35-C324F160F2-000	3-150-707
2-pole, 2 bimetal, illuminated, ma- gnetic T2	Green transparent	embossed	16.0 A	Without cover	TA35-C324F160T2-000	3-150-708
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

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