Circuit Breaker for Equipment thermal, Rocker actuation, 2 pole



illuminated Green transparent White, lettered



non-illuminated white



illuminated Red transparent

See below:

Approvals and Compliances

Description

- Thermal circuit breaker
- 2-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

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
	UL/CSA: 277 VAC
Rated Voltage DC	60 VDC
Rated current range AC	0.05 - 20 A
Conditional short circuit capa-	IEC 60934: 0.0520 A: 2 kA, SC (C1)
city Inc	@ 240 VAC
Degree of Protection	front side IP40 acc. to IEC 60529
Dielectric Strength	50 Hz: > 2.5 kV
	Impulse 1.2/50 µs: > 4 kV
Insulation Resistance	$500\text{VDC} > 100\text{M}\Omega$
Lifetime	mechanical: 50'000 switching cycles
	AC: 1 x lr, cos φ 0.6:
	50'000 switching cycles
	DC: $1 \times Ir$, $L/R = 2 - 3 \text{ ms}$:
	50'000 switching cycles

Overload	IEC: min. 40 trips
	@ 6 x lr, cos φ 0.6
	UL / CSA: min. 50 trips
	@ 1.5 x lr, cos φ 0.75
Allowable Operation Temp.	-30 °C to 60 °C
Vibration Resistance	± 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 / 18ms
	acc. to IEC 60068-2-27, test Ea
Tripping Type	Thermal
Actuation Type	Rocker
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.

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
© VE	VDE Approvals	VDE	VDE Certificate Number: 40019754
c FL °us	UL Approvals	UL	UL File Number: E71572
(W)	CCC Approvals	CCC	CCC Certificate Number: 2020970307001846

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)
(UL)	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
(W)	Designed according to	GB 17701	Circuit-breaker for equipment

Application standards

Application standards where the product can be used

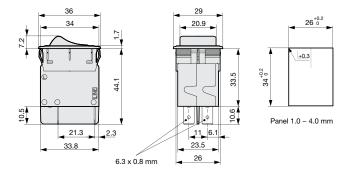
Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

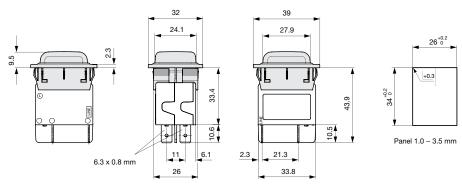
The product complies with following Guide Lines

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
5 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.

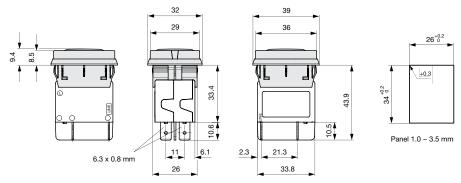
Dimension [mm]



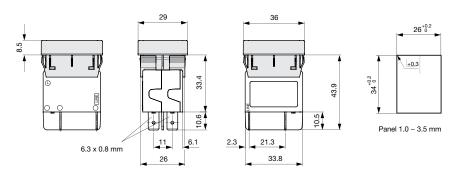
TA35 without protection cover



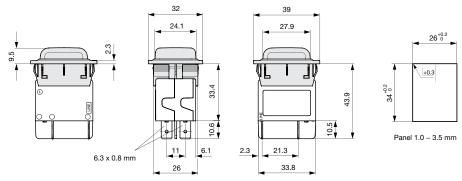
TA35 with factory mounted transparent protection cover CZM21, IP65



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

Diagrams

1) Line, 2) Load

2-pole, 1 bimetal, illuminated

2-pole, 1 bimetal, non illuminated

2-pole, 2 bimetal, illuminated

2-pole, 2 bimetal, non illuminated



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





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



1) Line, 2) Load

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

1) Line, 2) Load

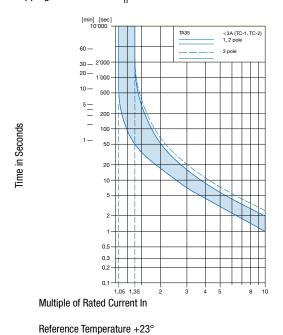
Approval		Rated current	Rated Voltage AC	Rated Voltage DC
c AU °us	UL 1077	0.0520 A	277 V	32/60 V
c FL °us	CSA C22.2 235	0.0520 A	277 V	32/60 V
\bigcirc^{V_E}	IEC 60934	0.0520 A	240 V	32/60 V
(W)	GB 17701	0.0520 A	240 V	60 V

Typical internal resistance per pole

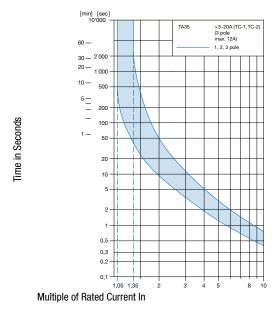
Rated Current [A]	Internal Resistance [Ω]
0.05	200.000
0.1	70.000
0.5	2.750
1.0	0.720
1.5	0.340
2.0	0.187
2.5	0.115
2.8	0.089
3.0	0.059
4.0	0.059
5.0	0.044
6.0	0.028
7.0	0.0142
8.0	0.0142
10.0	0.0109
12.0	0.0086
13.0 *	0.0072
14.0 *	0.0072
15.0 *	0.0056
16.0 *	0.0056
18.0 *	0.0052
20.0 *	0.0052
* 3-Pole max. 12 A	

Time-Current-Curves

Tripping Characteristics $I_n < 3 A$



Tripping Characteristics I_n 3 -20 A



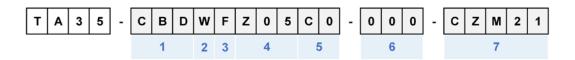
Reference Temperature +23°

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



Bas	sic 1	function				Q 1
Pol	es		1	2	2	3
	rma tecti	l overload on	P1	P1 P2	P1 P2	P1 P2 P3
Illun	mina	tion	F	F	H - \ \	F - \ - \ - \ - \ - \ - \ - \ - \ - \ -
Roc	ker	,				
Witl	hout	illumination	CFT	CBT	CBD	CKD
	1	380400 V	-	-	-	CD1
		220240 V	C2F	C12	C32	-
ーベ	א	110120 V	C4F	C14	C34	-
١Y	ץ	2026 V	C7F	C17	C37	-
ΙI		1013 V	C8F	C18	C38	-
'		47 V	C9F	C19	C39	-
Мог	men	tary				
Witl	hout	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	black	-	=	В	
black	green	-	=	G	
black	red	-	=	R	
black	white	-	=	W	
black	orange	-	=	Χ	
black	yellow	-	=	Υ	



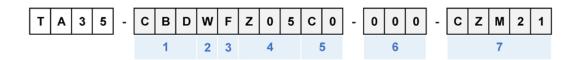
Rocker leg	Rocker legend, marking			3
- 0	Embossed	=	F	
OFF	Printed white Printed black	= =	H K	
-0	Printed white Printed black	= =	L M	

Rated current [A] Thermal overload protection								4	
In		Q	ln	Q	In		Q	In	Q
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)

Q **Features** Standard, no other features C0

^{* 3-}Pole max. 12 A



Special marking		Q	6
Standard	=	000	
Special marking (XXX = placehoder)	=	XXX	

Special marking (XXX = placehoder)	=	XXX
Accessories, factory-mounted (optional) No accessory	=	Q 7 (blank)
Transparent protection cover, 2-pole, IP65	=	CZM21
Transparent protection cover with raised collar, 2-pole, IP65	=	CZM23
Raised collar, 2-pole, IP40	=	CZM24
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	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	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 trans- parent 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

Most Popular.

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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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