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. 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	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			
electric Strength	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 x lr, $L/R = 2 - 3$ 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
	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

Organization	Design	Standard	Description
IEC.	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)
(h)	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

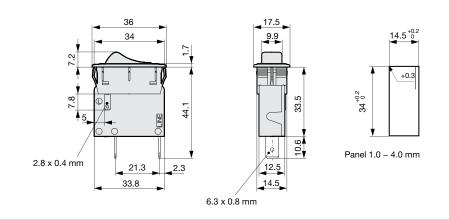
Organization	Design	Standard	Description
IEC.	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

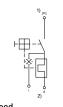
	5		
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA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



Diagrams

1-pole, 1 bimetal, non illuminated	1-pole, 1 bimetal, illuminated
2) 4	الم 2)
1) Line, 2) Load	1) Line, 2) Load



Codepos AAA = CFT, CGT

Codepos AAA = C2F, C4F, C7F, C8F, C9F

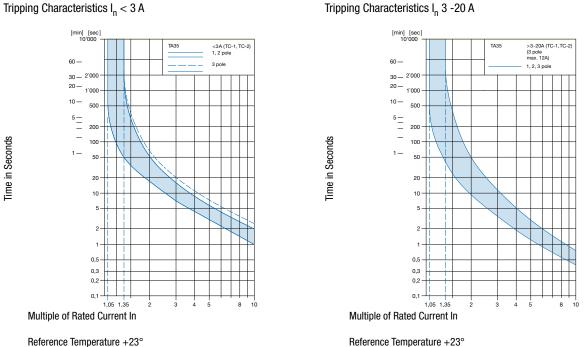
The keys / codepos are listed in the key table of the basic function for selection.

Approval		Rated current	Rated Voltage AC	Rated Voltage DC
c FL [®] us	UL 1077	0.0520 A	277 V	32 V
c W 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

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



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	0.77
-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

Tripping Characteristics In 3 -20 A



Basic	function				्र 1		
Poles		1	3				
Thermal overload protection		P1	P1 P2 0 0	P1 P2	P1 P2 P3		
Illumination							
Rocker							
Without illumination		CFT	CBT	CBD	CKD		
1	380400 V	-	-	-	CD1		
	220240 V	C2F	C12	C32	-		
l 🛆	110120 V	C4F	C14	C34	-		
IΨ	2026 V	C7F	C17	C37	-		
	1013 V	C8F	C18	C38	-		
47 V		C9F	C19	C39	-		
Mome	entary						
Witho	ut illumination	CGT	CET	CED	CLD		

* grey highlighted fields: configuration is not offered anymore

black-clear transparent=1black-red transparent=3black-green transparent=4black-orange transparent=6blackblack-=Bblackgreen-=Gblackred-=Rblackwhite-=Wblackorange-=X	Front- & Actua Front Bezel	tion color Rocker without illumination	Rocker with illumination		9	2
black-red transparent=3black-green transparent=4black-orange transparent=6blackblack-=Bblackgreen-=Gblackred-=Rblackwhite-=W	black	-	clear transparent	=	1	
black-green transparent=4black-orange transparent=6blackblack-=Bblackgreen-=Gblackred-=Rblackwhite-=W	black	-	•	=	3	
black-orange transparent=6blackblack-=Bblackgreen-=Gblackred-=Rblackwhite-=W	black	-	-	=	4	
blackgreen-=Gblackred-=Rblackwhite-=W	black	-	•	=	6	
black red - = R black white - = W	black	black	-	=	В	
black white - = W	black	green	-	=	G	
	black	red	-	=	R	
black orange - = X	black	white	-	=	W	
	black	orange	-	=	Х	
black yellow - = Y	black	yellow	-	=	Y	

T A 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		
Rocker lege	end, m	arkiı	ng																Q		3
- 0		Em	bos	sed													=		F		
OFF		Prir Prir															=		H K		
- 0		Prir Prir															=		L M		

Rated current [A]

Rated current [A] Thermal overload protection										
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 - C B D W	FZ	0 5	5 C 0	-	0 0	0	-	С	z M	2 1		
1 2	3	4	5		6	;			7			
Special marking									Q	6		
Standard Special marking (XXX = placehode	r)							=	000 XXX	000 XXX		
	· /								7000	7000		
Accessories, factory-mounted (o	Accessories, factory-mounted (optional)								Q	7		
No accessory								=	(blan	k)		
					d							
Transparent protection cover, 2-po	Transparent protection cover, 2-pole, IP65							=	CZM	21		
						1						
Transparent protection cover with ra	aised c	ollar 2	-nole IP6	5	ALC: N			=	CZM	23		
Transparent protection cover with the		01101, 2	-poie, ii e			A AN			02M	20		
Raised collar, 2-pole, IP40					1	A TO		=	CZM	24		
					e.	0						
Transparent antibacterial protection	cover	2-pole	IP65		and the second s	A CONTRACTOR		=	CZM	25		
nanoparent antibacterial protection		2 000	, 11 00			1 de			02101	20		

All Variants

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

20 Pcs

Accessories

Description



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

TA35 Accessories Screw-on collar with cover, IP65

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Circuit Breakers category:

Click to view products by Schurter manufacturer:

Other Similar products are found below :

LUGZX66-1-61-20.0-44 M39019/01-201S M39019/01-221 M39019/01-323 M39019/01-333 M39019/01-336 M39019/02-248 M39019/02-311 M39019/02-316 M39019/04-2498 M39019/05-2468 M39019/06-2548 M55629/1-016 M55629/1-018 M55629/1-021 M55629/1-033 M55629/1-036 M55629/1-046 M55629/1-048 M55629/1-058 M55629/1-067 M55629/1-070 M55629/1-079 M55629/1-084 M55629/1-085 M55629/1-101 M55629/1-109 M55629/11-102 M55629/1-120 M55629/12-045 M55629/12-046 M55629/1-330 M55629/1-366 M55629/1-387 M55629/1-401 M55629/1-450 M55629/2-022 M55629/2-030 M55629/2-072 M55629/2-082 M55629/2-099 M55629/2-101 M55629/2-102 M55629/21-BM-BM M55629/21-HM-HM M55629/21-NS-NS M55629/22-NR-NR-NR M55629/22-RS-RS-RS M55629/2-347 M55629/2-401