Thermal (T- and TA-Line) https://www.schurter.com /PG17_20

Description

Snap-in versionPositively trip-free release

- 3-pole

- Thermal circuit breaker

Different rocker coloursWide current range

Unique Selling Proposition - 1-, 2- or 3-pole versions

- Finely graded rated currents

- IP65 with optional cover

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

- High configurability (rocker colours, lettering, illumination)

TA35 Rocker 3Pole

Circuit Breaker for Equipment thermal, Rocker actuation, 3 poles



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	415 Y VAC / 240 VAC	Overload	IEC: min. 40 trips
Rated current range AC	0.05 - 12 A		@ 6 x lr, cos φ 0.6
Conditional short circuit capa- city Inc	IEC 60934: 0.0512 A: 2 kA @ 415 VAC		UL / CSA: min. 50trips @ 1.5 x lr, cos φ 0.75
Degree of Protection	front side IP40 acc. to IEC 60529	Allowable Operation Temp.	-30 °C to 60 °C
Dielectric Strength	50Hz: > 2.5kV	Storage Temperature	-40 °C to 60 °C
Insulation Resistance	Impulse 1.2/50 μs: > 4 kV 500 VDC > 100 MΩ mechanical: 50'000 switching cycles AC: 1 x Ir, cos φ 0.6:	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
	50'000 switching cycles DC: 1 x Ir, $L/R = 2 - 3$ ms:	Shock Resistance	30 G / 18ms acc. to IEC 60068-2-27, test Ea
	50'000 switching cycles	Tripping Type	Thermal
		Actuation Type	Rocker
		Weight	43.0 - 45.0g

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 3Pole

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	DesignStandardDesigned according toIEC 60934Designed according toUL 1077Designed according toCSA C22.2 No. 235

Application standards

Application standards where the product can be used

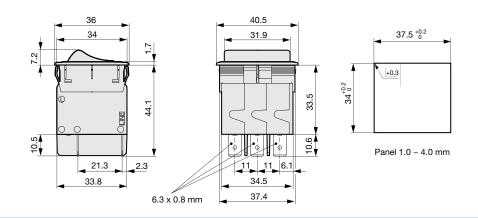
Organization	Design	Standard	Description
IEC.	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

	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.

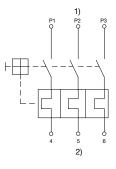
Dimension [mm]



TA35 Rocker <u>3Pole</u>

Diagrams

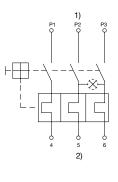
3-pole, 3 bimetal, non illuminated



3-pole, 3 bimetal, illuminated

1) Line, 2) Load

Codepos AAA = CD1



1) Line, 2) Load Codepos AAA = CKD, CLD

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

Approvals				
Approval		Rated current	Rated Voltage AC	Rated Voltage DC
c FN ° us	UL 1077	0.0512 A	415 Y / 240 V	-
c FL us	CSA C22.2 235	0.0512 A	415 Y / 240 V	-
	IEC 60934	0.0512 A	415 Y / 240 V	-
	GB 17701	0.0512 A	415 Y / 240 V	-

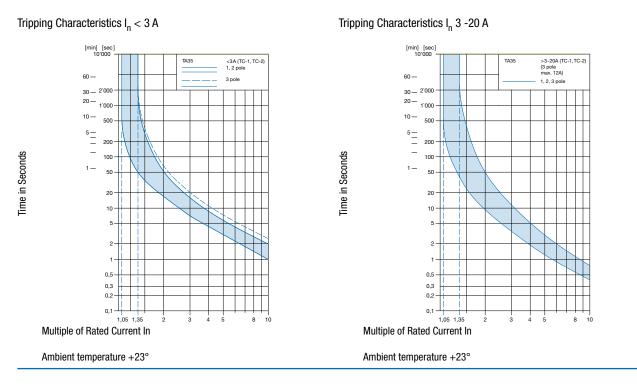
Effect of ambient temperature

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	1.06
+50	1.10
+60	1.14

Example: Rated current = 5 A, Environmental temperature = 50 °C, --> Correction factor = 1.10, Resulting current = 5.2 A --> Round to next higher rated current: 6 A

Time-Current-Curves



Order number key

Т	Α	3	5	-	с	в	D	w	F	z	0	5	с	0	-	0	0	0	-	с	z	M 2	2 1
						1		2	3		4		Ę	5			6					7	
-	Special marking												Q	6									
	Standard										=		000 XXX										
Spe	Special marking (XXX = placehoder)										-		~~~										
																						0	
	acce			acto	ory-	mou	inte	d (o	ptic	onal)									=		(blank	7
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Ira	nspa	aren	t pro	otec	tion	cov	er,	2-рс	ble, I	IP65)							A.		=		CZM2	1
																	~						
Tra	nen	aron	t pr	otec	tion	COV	or w	uith r	aise	ad co	allar	2_r	ole,	IPA	5					=		CZM2	2
na	nspa	aren	r pr	Jiec	uon	000		iui i	aise		Jiai	, ∠ -⊦	oie,	11-0	0		E	Jul .		-			.0
Rai	sed	colla	ar. 2	2-po	le, II	P40												T		=		CZM2	4
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																	The second	\checkmark					

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		
Roo	cker	· leg	end	l, ma	arki	ng																Q		3
	- 0	•			Em	bos	sed													=		F		
	N HO				Prir Prir	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

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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	C19	C39	-
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	

All Variants

Basic function	Rocker colour	Legend	Rated current	Accessories	Config. Code	Order Number
3-pole, 3 bimetal, without illumination	Black	white printed	2.5 A	Without cover	TA35-CKDBHJ25C0-000	4435.0229
3-pole, 3 bimetal, without illumination	White	embossed	3.0 A	Without cover	TA35-CKDWF030C0-000	4435.0025
3-pole, 3 bimetal, without illumination	Black	white printed	4.0 A	Without cover	TA35-CKDBH040C0-000	4435.0232
3-pole, 3 bimetal, without illumination	White	embossed	5.0 A	Without cover	TA35-CKDWF050C0-000	4435.0044
3-pole, 3 bimetal, without illumination	Black	white printed	5.0 A	Without cover	TA35-CKDBH050C0-000	4435.0048
3-pole, 3 bimetal, without illumination	Black	white printed	6.0 A	Without cover	TA35-CKDBH060C0-000	4435.0233
3-pole, 3 bimetal, without illumination	White	embossed	10.0 A	Without cover	TA35-CKDWF100C0-000	4435.0050
3-pole, 3 bimetal, without illumination	Black	white printed	10.0 A	Without cover	TA35-CKDBH100C0-000	4435.0235
3-pole, 3 bimetal, without illumination	White	embossed	12.0 A	Without cover	TA35-CKDWF120C0-000	4435.0017
3-pole, 3 bimetal, illuminated 415 V	Red transparent	white printed	12.0 A	Without cover	TA35-CD13L120C0-000	4435.0414

Most Popular.

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



TA35_Accessories Screw-on collar with cover, IP65