Circuit Breaker for Equipment thermal, Rocker actuation, 3 poles



See below:

Approvals and Compliances

Description

- Thermal circuit breaker
- 3-pole
- Snap-in version
- Positively trip-free release
- Different rocker colours
- High configurability
- Wide current range

Applications

- Power tools
- Industrial appliances
- Equipment for construction
- Cleaning equipment
- Commercial and household kitchen appliances

pdf datasheet, html-datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Product News

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Rated Voltage AC	415 Y / 240 V; 50/60 Hz
Rated current range AC	0.05 - 12 A
Conditional short circuit ca-	0.0512 A: 2 kA @ 415 VAC
pacity	
Degree of Protection	from front side IP 40 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 x Ir, $L/R = 2 - 3$ 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	
Ambient temperature	-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	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

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
Ď ^V E	VDE Approvals	VDE	VDE Certificate Number: 40019754
c SU °us	UL Approvals	UL	UL File Number: E71572
(W)	CQC Approvals	CQC	CCC Certificate Number: 2013010307598660

Product standards

Product standards that are referenced

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

Application standards

Application standards where the product can be used

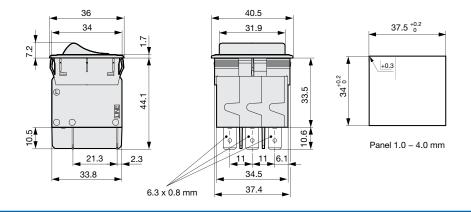
Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment. $\label{eq:continuous}$

Compliances

The product complies with following Guide Lines

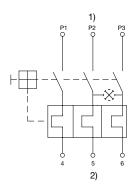
The product complies	With following dalac Elifes		
Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
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]



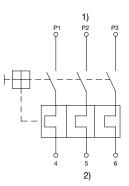
Diagrams

3-pole, 3 bimetal, illuminated



1) Line, 2) Load Codepos AAA = CD1

3-pole, 3 bimetal, non illuminated



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 W us	UL 1077	0.0512 A	415 Y/ 240 V	-
c 711 ° us	CSA C22.2 235	0.0512 A	415 Y/ 240 V	-
DVE	IEC 60934	0.0512 A	415 Y/ 240 V	-
(W)	GB 17701	0.0512 A	415 Y/ 240 V	-

Typical internal resistance

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

TA35 Rocker 3-poles max. 12 A

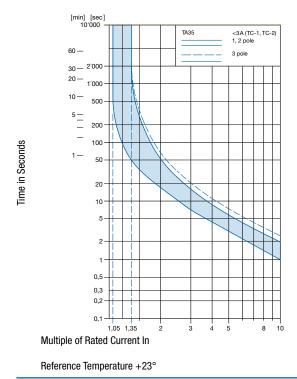
Effect of ambient temperature

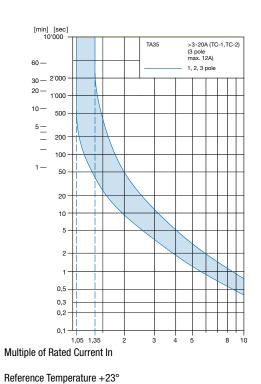
The units are calibrated for an ambient temperature of +23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

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 --> Fount to next higher rated current: 6 A

Time-Current-Curves





Config. Code

TA35 - CBD B F 120 C0 - CZMXX

The characters are placeholders for the correspondingly keys of selections from the key tables.

TA35 - CBD B F 120 CO - CZMXX = Basic	function
Basic function	Configuration key
3-pole, 3 bimetal, illuminated 415 V	CD1
3-pole, 3 bimetal, without illumination	CKD
3-pole, 3 bimetal, momentary switch, without illumination	CLD
TA35 - CBD B F 120 CO - CZMXX = Rocker	colour
Rocker colour	Configuration key
Clear transparent	1
Red transparent	3
Green transparent	4
Orange transparent	6
Blue transparent	7
Black	В
Green	G
Red	R
White	W
White Orange	W X

Legend		Configuration key
embossed	- 0	F
white printed	NO	Н
black printed	NO PHO	К
white printed	- 0	L
black printed	- 0	М
TA35 - CBD B F 120 C0 - CZMXX = I	Rated current	

Rated current	Configuration key
without thermal overload protection / temporarily without VDE approval	C00
0.05 A	Z05
0.1 A	J01
0.2 A	J02
0.3 A	J03
0.4 A	J04
0.5 A	J05
0.8 A	J08

Other rated currents on request

TA35 - CBD B F 120 C0 - CZMXX = Legend

Rated current	Configuration key
1.0 A	J10
1.2 A	J12
1.5 A	J15
2.0 A	J20
2.5 A	J25
3.0 A	030
3.5 A	035
4.0 A	040
5.0 A	050
6.0 A	060
7.0 A	070
8.0 A	080
10.0 A	100
12.0 A	120

Reserve	Configuration key
reserve	CO
	•
TA35 - CBD B F 120 C0 - CZMXX = Accessor	ies Configuration key
	Configuration
Factory mounted accessories	Configuration

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	4435.0229
3-pole, 3 bimetal, without illumination	White	embossed	3.0 A	Without cover	TA35-CKDWF030C0	4435.0025
3-pole, 3 bimetal, without illumination	Black	white printed	4.0 A	Without cover	TA35-CKDBH040C0	4435.0232
3-pole, 3 bimetal, without illumination	White	embossed	5.0 A	Without cover	TA35-CKDWF050C0	4435.0044
3-pole, 3 bimetal, without illumination	Black	white printed	5.0 A	Without cover	TA35-CKDBH050C0	4435.0048
3-pole, 3 bimetal, without illumination	Black	white printed	6.0 A	Without cover	TA35-CKDBH060C0	4435.0233
3-pole, 3 bimetal, without illumination	White	embossed	10.0 A	Without cover	TA35-CKDWF100C0	4435.0050
3-pole, 3 bimetal, without illumination	Black	white printed	10.0 A	Without cover	TA35-CKDBH100C0	4435.0235
3-pole, 3 bimetal, without illumination	White	embossed	12.0 A	Without cover	TA35-CKDWF120C0	4435.0017
3-pole, 3 bimetal, illuminated 415 V	Red transparent	white printed	12.0 A	Without cover	TA35-CD13L120C0	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