TA35 Rotary Switch 2Pol

Circuit Breaker for Equipment thermal, Rotary knob actuation, 2 pole





Thermal circuit breaker Rotary Switch, 2-pole Standard version

See below: Approvals and Compliances

Applications

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

References

Available without bezel/knob for customized front panel design

Weblinks

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

Technical Data

Description

- 2-pole

- Thermal circuit breaker ,

- Positively trip-free release

Unique Selling Proposition

- Easy actuation with gloves

- Bezel / knob snap-on

- Supplementary protector for general industrial use

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

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	from front side IP40 from rear-side acc.
	to IEC 60529
Dielectric Strength	50 Hz: > 2.5 kV
	Impulse 1.2/50 μ s: > 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 lr,:
	50'000 switching cycles

Overload	IEC: min. 40 trips@ 6 x lr, cos φ 0.6
	: min. 50trips@ 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	Rotary Knob
Weight	60 g

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.

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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	UL File Number: E71572
	CCC Approvals	CCC	CCC Certificate Number: 2020970307001846

Product standards

Product standards that are referenced

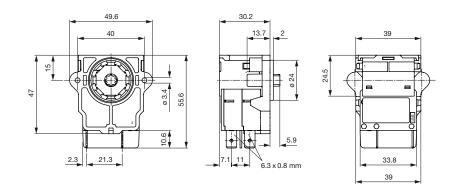
Organization	Design	Standard	Description		
IEC	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)		
(h)	Designed according to	UL 1077	Standard for Supplementary Protectors for Use in Electrical Equipment		
GE CSA Group	Designed according to	CSA C22.2 No. 235	Supplementary Protectors		
	Designed according to	GB 17701	Circuit-breaker for equipment		

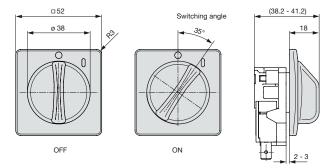
Compliances

The product complies with following Guide Lines

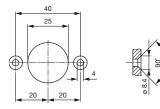
	J		
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
51	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]





Cut out



Assembly Instructions



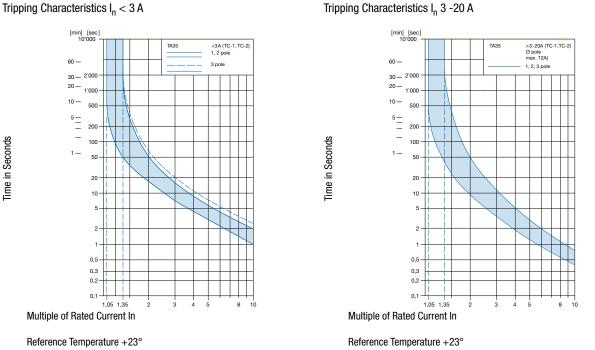
Approval		Rated current	Rated Voltage AC	Rated Voltage DC
c FLL us	UL 1077	0.0520 A	277 V	60 V
c RL us	CSA C22.2 235	0.0520 A	277 V	60 V
	IEC 60934	0.0520 A	240 V	60 V
	GB 17701	0.0520 A	240 V	60 V

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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 -20 A

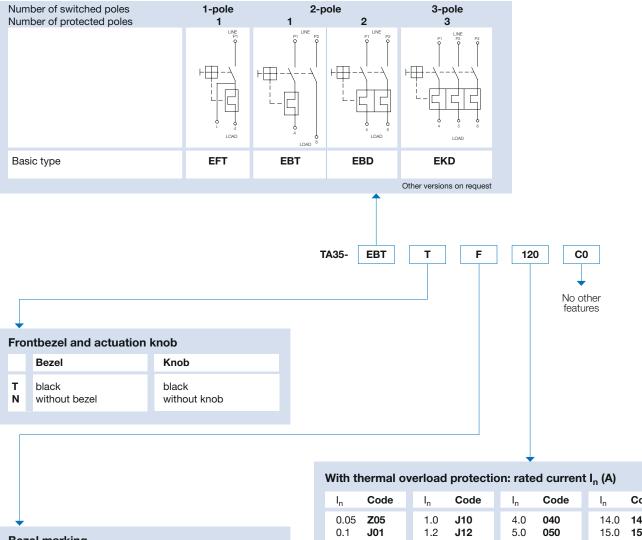
Effect of ambient temperature

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

Configurations code



Bez	Bezel marking				
	Surface	Symbol			
F N	relief recessed no marking	I 0 no marking			

I _n C	ode	I _n	Code	l _n	Code	I _n	Code
0.1 J 0.2 J 0.3 J 0.4 J	05 01 02 03 04 05	1.0 1.2 1.5 2.0 2.5 3.0	J10 J12 J15 J20 J25 030	4.0 5.0 6.0 7.0 8.0 10.0	040 050 060 070 080 100	14.0 15.0 16.0 18.0 20.0	140 150 160 180 200
0.8 J	08	3.5	035	12.0	120		

All Variants

Designation	Order Number
TA35 Drehknopf 2Pol, 20 A, Snap-in version, Quick connect terminals 6.3 x 0.8 mm, 240 VAC, 2-pole, Circuit Breakers	4435.0074
TA35 Drehknopf 2Pol, 10 A, Snap-in version, Quick connect terminals 6.3 x 0.8 mm, 240 VAC, 2-pole, Circuit Breakers	4435.0086

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

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