Circuit Breaker for Equipment thermal, Flange type, Reset type, Screw terminals



Description

- Flange type
- Thermal circuit breaker
- 1-pole
- Reset type
- Bolts and nuts

Unique Selling Proposition

- Compact design
- Positively trip-free release
- Available with cover
- Different mounting possibilities

Technical Data

Rated Voltage AC	240 V: 50/60 Hz
Rated Voltage DC	28 V
Rated current range AC	0.05 - 15/16 A , see approbations
Conditional short circuit ca-	IEC: Inc, PC1, AC 240 V: 1 kA
pacity	
Short circuit capacity Icn	_at In < 7 A/240 VAC : 8 x In
	at In ≥ 7 A/240 VAC : 200 A
	AC/DC 28 V : 400 A
Degree of Protection	from front side IP 40 acc. to IEC 60529
Dielectric Strength	50Hz: > 1.5kV
	Impulse 1.2/50 µs: > 2.5 kV
Insulation Resistance	$500 \text{ VDC} > 100 \text{ M}\Omega$
Endurance typical	2 x lr: 5000 switching cycles
Endurance minimum	Reset type
	AC : 2 x lr , cos φ 0.6 :
	DC : 2 x lr , L/R = 2 - 3 ms :
	50 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.	-5 °C to 60 °C
Vibration Resistance	± 1.5 mm @ 10 - 60 Hz
	acc. to IEC 60068-2-6, test Fc
	10 G @ 60 - 500 Hz
	acc. to IEC 60068-2-6, test Fc
Shock Resistance	100 G / 6ms
	acc. to IEC 60068-2-27, test Ea
Tripping Type	Thermal
Actuation Type	Reset type
Weight	ca. 10g

pdf datasheet, html-datasheet, General Product Information, Distributor-

Stock-Check, Detailed request for product, Product News

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

See below:

Applications

- Power tools

Weblinks

- Power supplies

Approvals and Compliances

- Uninterruptible power supply

- Household appliances

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: T12

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 99673
c FL [°] us	UL Approvals	UL	UL File Number: E71572
	CQC Approvals	CQC	CCC Certificate Number: 2012010307564275

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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	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technologyequipment.

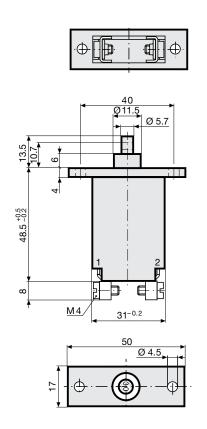
Compliances

The product complies with following Guide Lines

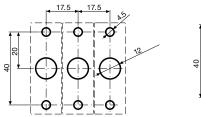
	-		
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS	RoHS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

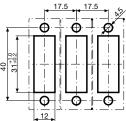
Dimension [mm]

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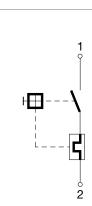


Installation from rear

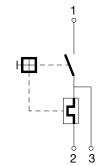
Tap 4,8 x 0,8 mm

Installation from front

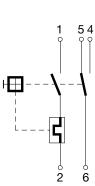
Diagrams



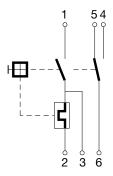
Tap 4,8 x 0,8 mm



Tap 4,8 x 0,8 mm



Tap 4,8 x 0,8 mm



Approval		Main circuit			Auxiliary circuit		
		Rated current	Rated Voltage AC	Rated Voltage DC	Rated current	Rated Voltage AC	Rated Voltage DC
c FL ° us	UL 1077 CSA C22.2 No. 235	0.0515 A	240 V	28 V	2 A 3 A	120 V -	- 28 V
(SP)	CSA C22.2 No. 235	0.316 A	240 V	28 V	1 A	240 V	-
	IEC 60934	0.0516 A	240 V	28 V	1 A	240 V	28 V
	GB 17701	0.0516 A	240 V	28 V	1 A	240 V	28 V

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Typical internal resistance

Rated Current [A]	Internal Resistance [Ω]
0.05	225.000
0.50	3.300
1.00	0.880
2.00	0.267
3.00	0.128
4.00	0.073
5.00	0.040
6.00	0.031
7.00	0.018
8.00	0.018
9.00	0.010
10.00	0.0087
11.00	0.0087
12.00	0.0087
13.00	0.0087
14.00	0.0070
15.00	0.0070
16.00	0.0055

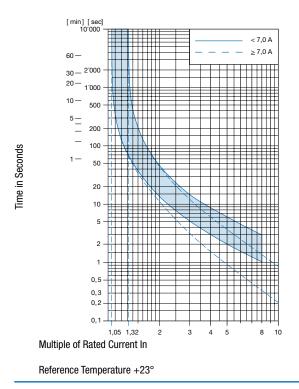
Effect of ambient temperature

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
-5	0.87
0	0.90
10	0.95
23	1.00
30	1.05
40	1.12
50	1.20
60	1.30

Example: Rated current = 5 A, Environmental temperature = 50 $^{\circ}$ C, --> Correction factor = 1.2, Resulting current = 6.0 A

Time-Current-Curves



Config. Code

T12 - 1 2 3 A B C - 1.23

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

T12 - 1 2 3 A B C - 1.23 = Mounting

Mounting	Configuration key
Screwflange mounting	1
Threaded neck type with hexagonal- and knurled nut	2

T12 - 1 2 3 A B C - 1.23 = Actuation Type

Actuation Type	Configuration key
Reset type	1
Manual ON/OFF (push/push)	2

T12 - 1 2 3 A B C - 1.23 = Terminal

Terminal	Configuration key
Quick connect terminal 6.3x0.8mm	1
Screw clamp terminals	2

T12 - 1 2 3 **A** B C - 1.23 **= Auxiliary contact**

Auxiliary contact	Configuration key
Auxiliary contact	S

T12 - 1 2 3 A B C - 1.23 = Shunt terminal

Shunt terminal	Configuration key
Shunt terminal	N

T12 - 1 2 3 A B C - 1.23 = Setting indication

Setting indication	Configuration key
Setting indication	R

T12 - 1 2 3 A B C - **1.23** = Rated current

Rated current	Configuration key
0.05 A	0.05
0.1 A	0.1
0.15 A	0.15
0.2 A	0.2
0.3 A	0.3
0.4 A	0.4
0.5 A	0.5
0.6 A	0.6
0.7 A	0.7
0.8 A	0.8
0.9 A	0.9
1.0	1
1.1 A	1.1

Other rated currents on request

Rated current	Configuration key	Rated current	Configuration key
1.2 A	1.2	5.0 A	5
1.3 A	1.3	5.5 A	5.5
1.4 A	1.4	6.0	6
1.5 A	1.5	6.5 A	6.5
1.6 A	1.6	7.0 A	7
1.7 A	1.7	7.5 A	7.5
1.8 A	1.8	8.0 A	8
1.9 A	1.9	8.5 A	8.5
2.0 A	2	9.0 A	9
2.1 A	2.1	9.5 A	9.5
2.3 A	2.3	10.0 A	10
2.5 A	2.5	11.0 A	11
2.8 A	2.8	12.0 A	12
3.0 A	3	13.0 A	13
3.3 A	3.3	14.0 A	14
3.5 A	3.5	15.0 A	15
4.0 A	4	16.0 A	16
4.5 A	4.5	Other rated currents on request	
Other rated currents on request			

Packaging Unit 20 Pcs

Accessories

Description



T-Line Accessories Accessories to T-Line