Circuit Breaker for Equipment, thermal, Threaded-neck type, 1 pole



See below:

Approvals and Compliances

Weblinks

pdf data sheet, 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**

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 agree-

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Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
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.

TS-LINE

Product description

The TS-line consists of a series of low cost thermally operated CBEs available in three frame sizes for rated currents up to 40 A.

They are intended to provide protection against sustained overloads. All CBEs of the TS-line use a thermo-bimetal to simulate the thermal behavior of the protected components, which could be conductors in wiring, motors, transformers etc.

The snap-action type of bimetal opens the contact when the temperature of the bimetal has reached a certain threshold level. The circuit will then remain open unless the reset (or ON-) button is permanently depressed. In this case the snap-action contact will momentarily reclose until the bimetal has reached its trip-temperature again and effects the automatic opening operation. This behavior is termed «cycling trip-free». The «cycling» indicates the momentary re-closings which do occur, the «trip-free» indicates that the opening operation of the contacts can not be prevented by pressing the ON or the RESET button.

Every CBE of the TS-line can well cope with overload currents up to 6 times the rated currents without any back-up assistance. If the fault current could be higher, CBEs require back-up protection. In many instances, this back-up protection is provided by the protective devices of the building installation.

The TS-Line is designed for automatic interruption and non-automatic (manual) resetting only (R-type CBEs). They utilize a reliable snapaction bimetal to achieve the automatic opening operation and quick connect terminals for easy connection.

Common features are:

- · Attractive prices
- · Wide range of ratings
- · Reliable design
- Approvals

The TS-701 line has a threaded neck for panel mounting. The overall dimensions are slightly bigger, but the available ratings are considerably higher (up to 40 A).

The TS-709 line is a push to reset type CBE for panel mounting (threaded neck). Its strong points are the small size and the attractive price. Rated current are from 3A to 16A.

The TS-710 line fits into the mounting cut-off of miniature fuseholders. Where the advantage of having a reusable protective device counts, this CBE has its application.



www.schurterinc.com



TS-701

Effect of ambient temperature

The unit is calibrated for an ambient temperature of +25°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below:

Ambient temperature [°C]	Correct Rated (3-5 A	
+10	0,69	0,8
+15	0,74	0,87
+20	0,83	0,91
+25	1,0	1,0
+30	1,43	1,18
+35	1,82	1,25
+40	2,22	1,39
+45		1,54
+50		1,67
+55		1,82
+60		2,0

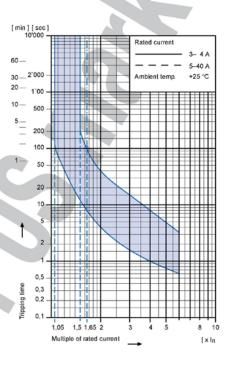
Example

Rated current at +25°C 10.0 A +40°C Ambient temperature Correction factor 1,39 Chosen rated current at

+40°C ambient temperature

10 A x 1,39 = 14 A

Tripping characteristic



Technical data

Rated voltage Ue See approvals, page 47E AC 125; 250 V DC 50 V

See approvals, page 47E Rated current In 3 - 40 A

Conditional short circuit current Inc PC1, AC 250 V 1000 A

Short circuit capacity Icn AC 240 V 200 A

Dielectric strength AC 1500 V

Endurance Number of cycles at 1,5 x I_n (AC 125 V) 500

Type of actuation Reset type

Type of tripping Thermal TO · Cycling trip-free

Weight approx. 24 g

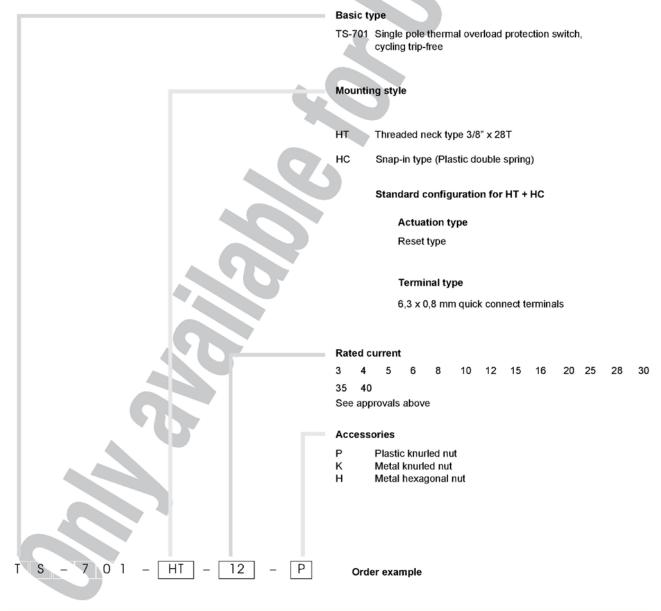
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TS-701

Approvals

			Type TS-701-HT		Type TS-701-HC	
			Rated current range	Rated voltage AC	Rated current range	Rated voltage AC
<i>71</i> 2	UL	1077	3 – 30 A	250 V	3 – 30 A	250 V
(P)	CSA	C 22,2	3 – 30 A	125 V	3 – 30 A	125 V

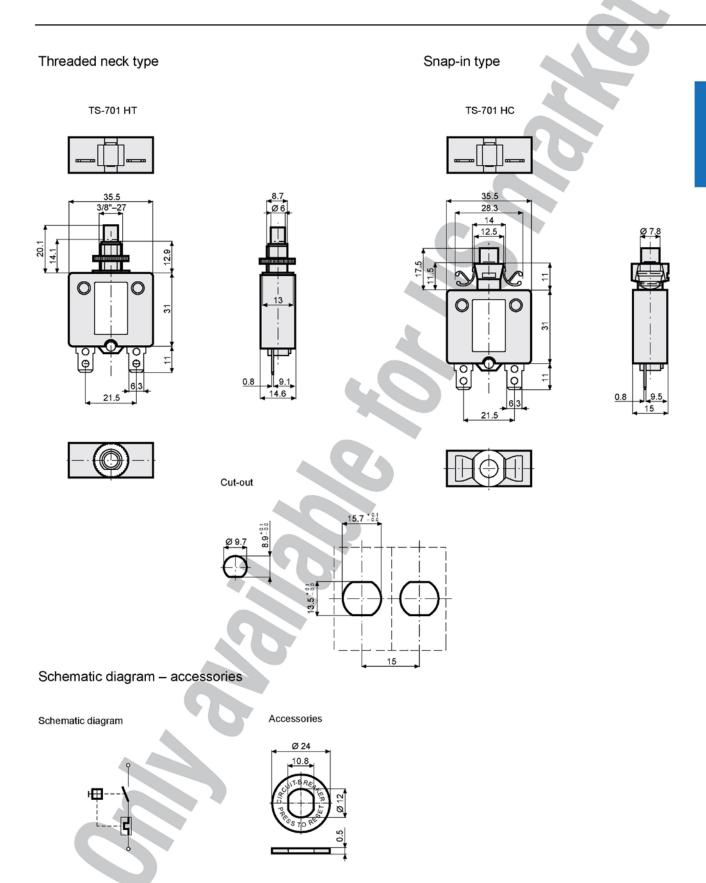
Order code



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TS-701



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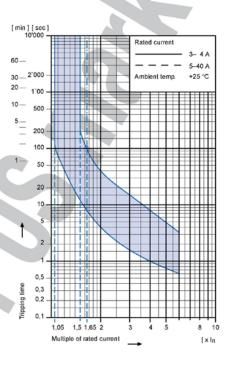
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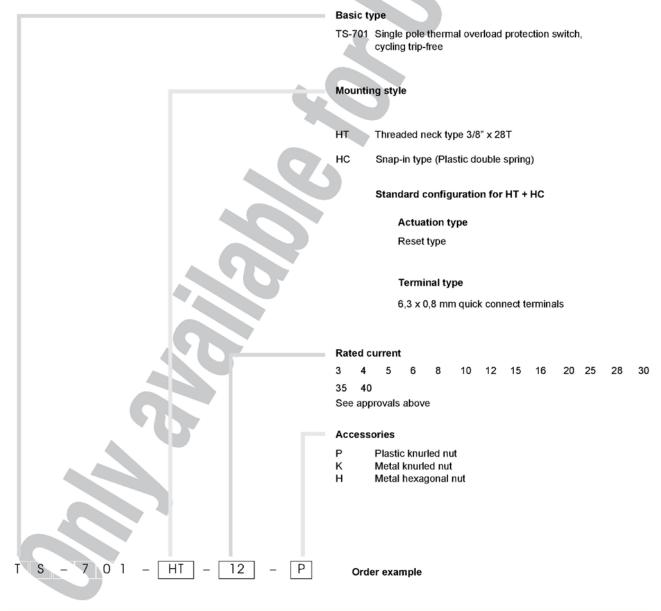
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TS-701

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®	CSA	C 22,2	3 – 30 A	125 V	3 – 30 A	125 V

Order code



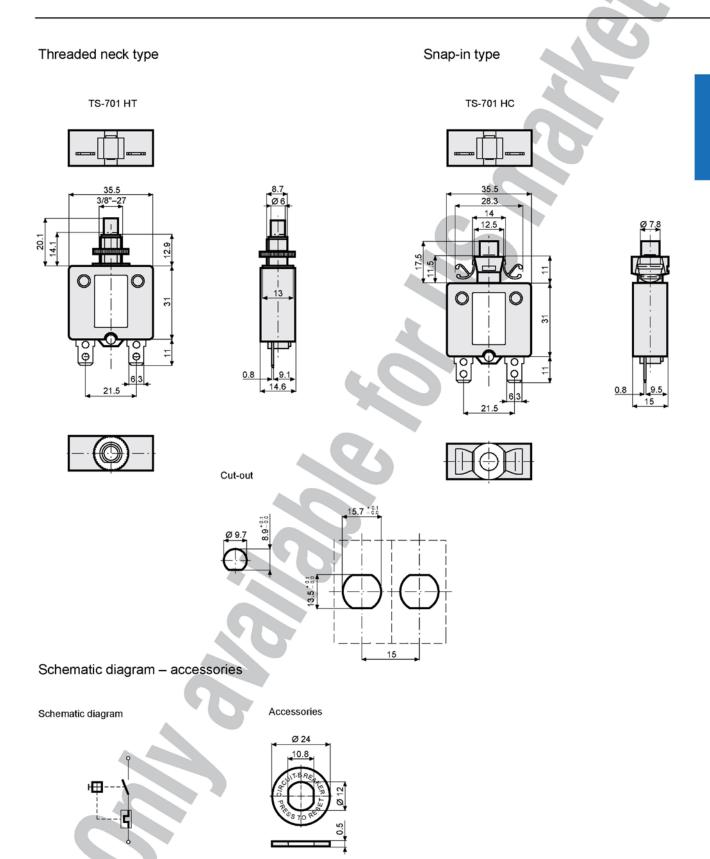
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The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each

product selected for their own applications.

TS-701



Mouser Electronics

Authorized Distributor

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TS-701-HT-25 TS-701-HT-20 TS-701-HT-5 TS-701-HT-12H TS-701-HT-4 TS-701-HT-8H TS-701-HM-35 TS-701
HM-40 TS-701-HM-40H TS-701-HM-40-KW TS-701-HT-10P TS-701-HT-12-K TS-701-HT-15-HP TS-701-HT-20/RI3

TS-701-HT-3 TS-701-HT-30 TS-701-HT-40P TS-701-HT-7 TS-701-HT-8 TS-701-HT-8K TS-701-HZ-10B TS-701-HZ-7B TS-701-HT-4H