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.



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TS-709

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 of 3-4 A	
+10	0,74	0,83
+15	0,83	0,92
+20	0,91	0,94
+25	1,00	1,00
+30	1,25	1,09
+35	1,43	1,16
+40	1,82	1,25
+45		1,33
+50		1,43
+55		1,67
+60		2,00

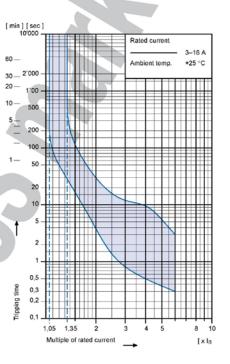
Example

Rated current at +25°C 4,0 A +30°C Ambient temperature Correction factor 1,25 Chosen rated current at

+30°C ambient temperature

 $4 A \times 1,25 = 5 A$

Tripping characteristic



Technical data		
Rated voltage U _e	See approvals, page 47H	AC 125; 250 V* DC 32 V
Rated current I _n	See approvals, page 47H	3 – 16 A
Conditional short circuit current Inc	PC1, AC 125 V	1000 A
*Short circuit capacity I _{cn}	AC 250 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	R
Type of tripping	Thermal Cycling trip-free	то
Weight		approx. 15 g

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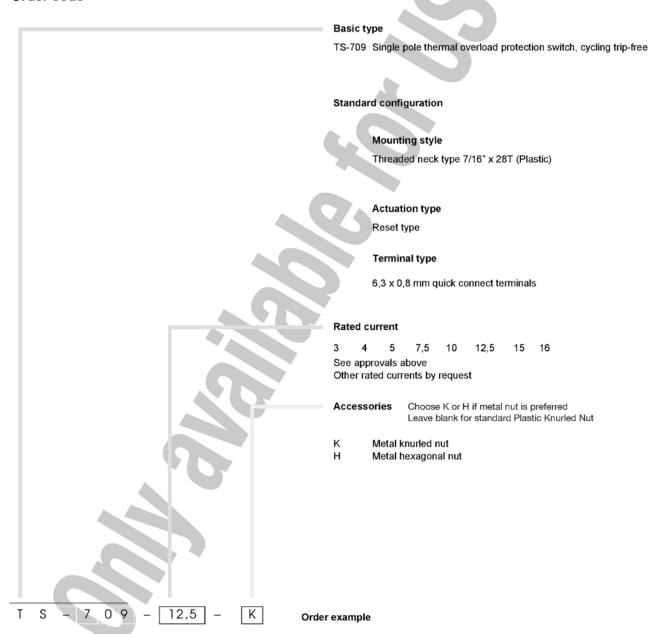


TS-709

Approvals

			Rated current range	Rated voltage AC	
<i>21</i> 7	UL	1077	4 – 15 A	125 V	
(P	CSA	C 22,2	3 – 15 A	120 V	

Order code



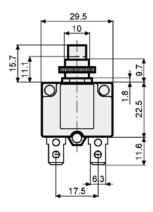
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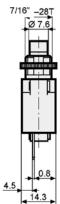
TS-709

Threaded neck type

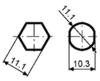
TS-709







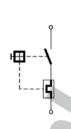




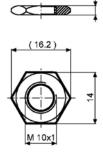


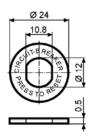
Schematic diagram – accessories

Schematic diagram









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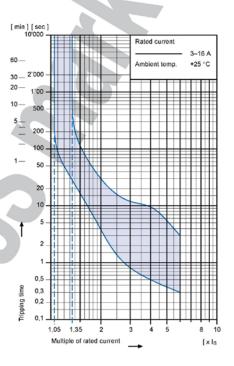
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Dielectric strength		AC 1500 V
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Type of actuation	• Reset type	R
Type of tripping	Thermal Cycling trip-free	то
Weight		approx. 15 g

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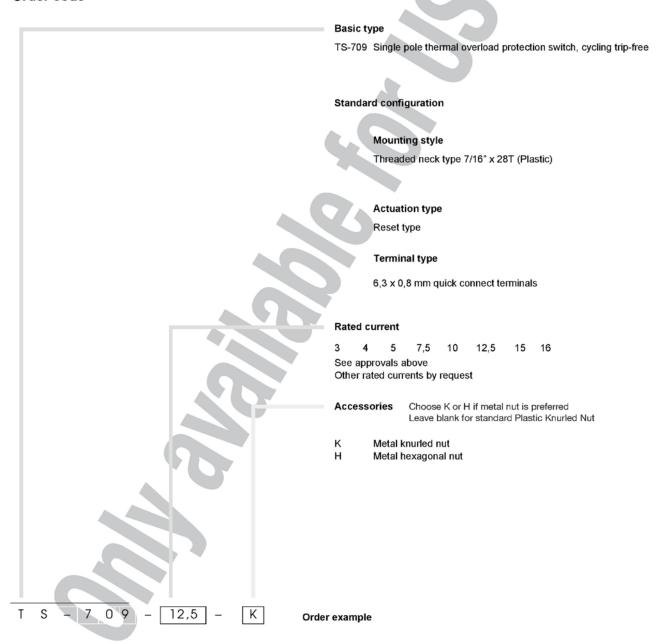


TS-709

Approvals

			Rated current range	Rated voltage AC	
<i>91</i>	UL	1077	4 – 15 A	125 V	
(P)	CSA	C 22,2	3 – 15 A	120 V	

Order code



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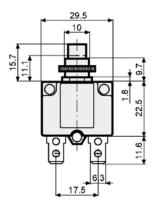
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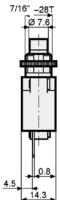
TS-709

Threaded neck type

TS-709







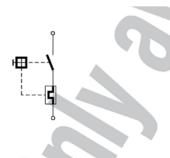




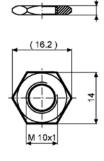


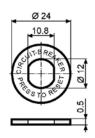
Schematic diagram – accessories

Schematic diagram



Accessories





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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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