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TS-709

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





Weblinks

pdf datasheet, html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, REACH, Distributor-Stock-Check, Detailed request for product, Product News

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.



TS-LINE

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]	Correc Rated 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
Ambient temperature	+30°C
Correction factor	1,25
Chosen rated current at	
+30°C ambient temperature	
4 A x 1,25 = 5 A	

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3–16 A 60-Ambient temp. +25 °C 30 _ 2`000 20 1'00 10 500 200 100 1-50 10 5 2 1 0,5 Tripping time 0.3 0,2 0.1 1,05 1,35 8 2 5 Multiple of rated current [×In -

[min] [sec] - 10'000

Technical data		
Rated voltage Ue	See approvals, page 47H	AC 125; 250 V* DC 32 V
Rated current In	See approvals, page 47H	3 – 16 A
Conditional short circuit current Inc	PC1, AC 125 V	1000 A
*Short circuit capacity Icn	AC 250 V	200 A
Dielectric strength		AC 1500 V
Endurance	Number of cycles at 1,5 x I $_{\rm n}$ (AC 125 V)	500
Type of actuation	Reset type	R
Type of tripping	ThermalCycling trip-free	то
Weight		approx. 15 g

TS-709

10

Rated current

Tripping characteristic

TS-709

Approvals

UL

CSA

97

(SP)

1077

C 22,2

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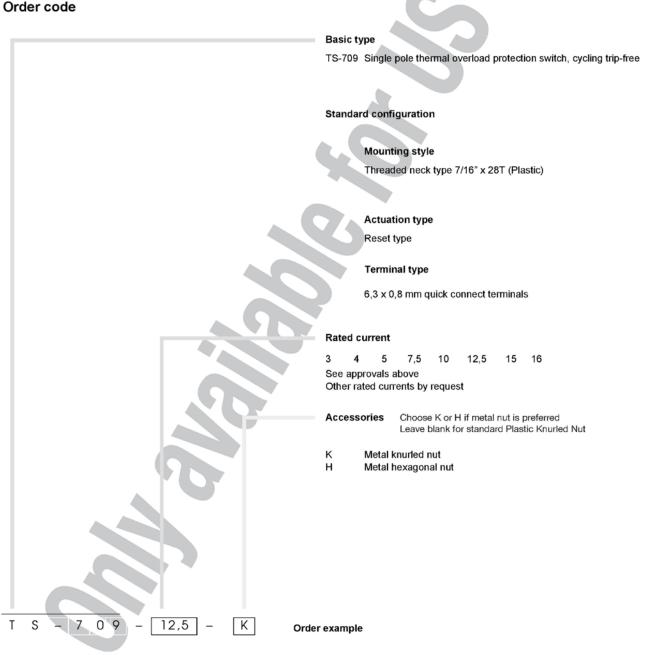
Rated voltage AC

125 V

120 V

CIRCUIT BREAKERS FOR EQUIPMENT

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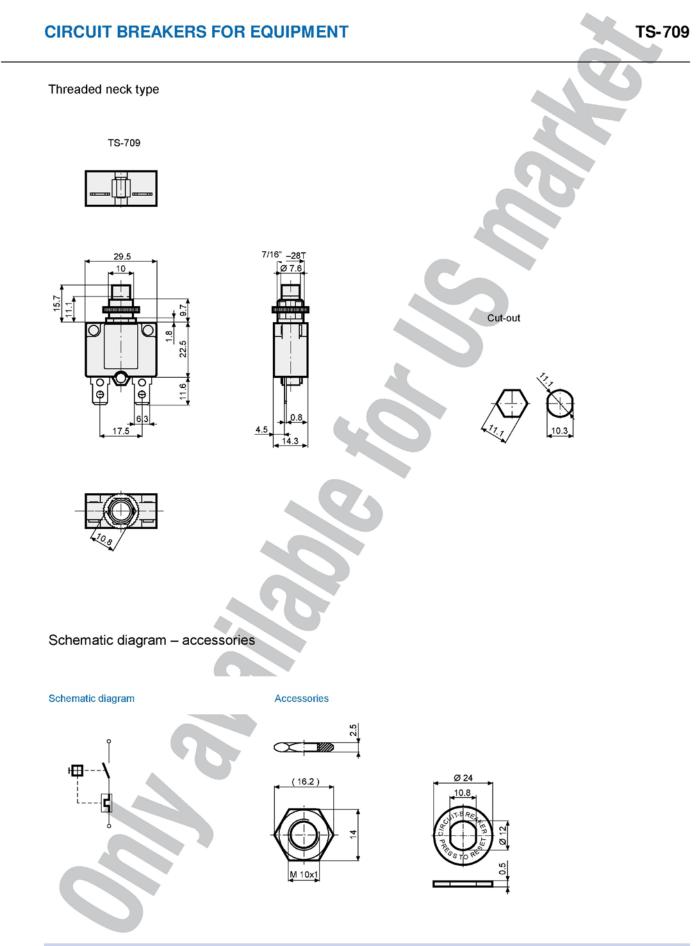


Rated current range

4 – 15 A

3 – 15 A

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Example

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Endurance	Number of cycles at 1,5 x I $_{\rm I}$ (AC 125 V)	500
Type of actuation	Reset type	R
Type of tripping	Thermal Cycling trip-free	то
Weight		арргох. 15 д
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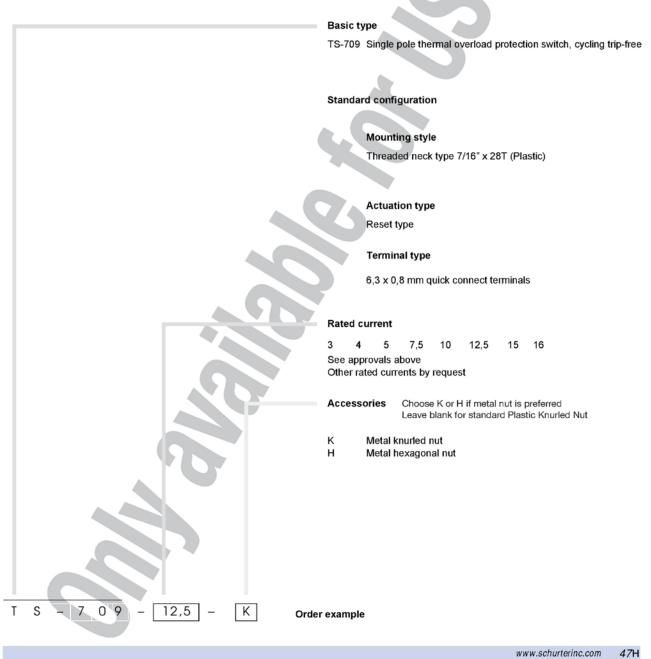
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TS-709

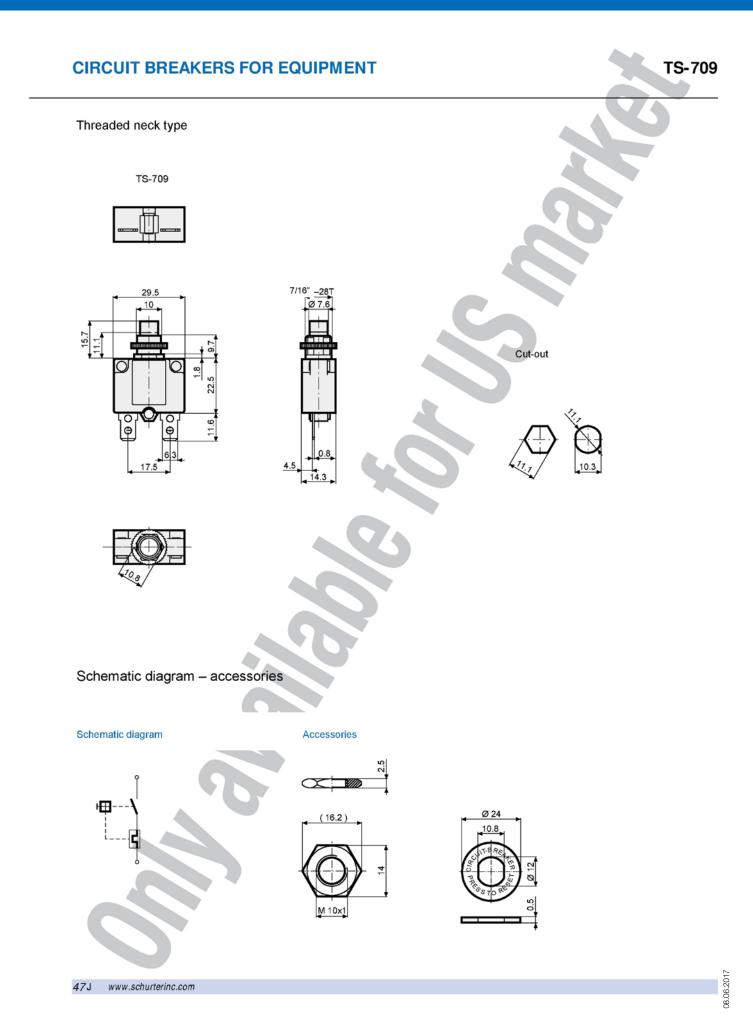
SCHURTER TS-709

Арр	rovals				
			Rated current range	Rated voltage AC	
<i>91</i>	UL	1077	4 – 15 A	125 V	
S₽	CSA	C 22,2	3 – 15 A	120 V	

Order code



TS-709



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.