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Schurter TS-710-16

For any questions, you can email us directly: sales@integrated-circuit.com

Datasheet of TS-710-16 - CIR BRKR THRM 16A 250VAC 50VDC

Contact us: sales@integrated-circuit.com Website: www.integrated



CIRCUIT BREAKERS FOR EQUIPMENT

TS-710 Series

- Thermal release
- Cycling trip-free
- Fitting into the mounting cut out of some miniature fuse holders



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-710 lines fits into the mounting cut-out of miniature fuseholders. Where the advantage of having a reusable protective device counts, this CBE has its application. Rated currents from 3A to 16A.

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CIRCUIT BREAKERS FOR EQUIPMENT TS-710

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:

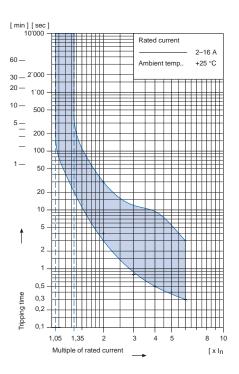
Ambient temperature [°C]	Rated	tion factor current 5-16 A
+10	0,69	0,83
+15	0,83	0,90
+20	0,91	0,94
+25	1,00	1,00
+30	1,25	1,08
+35	1,54	1,14
+40	2,00	1,20
+45		1,30
+50		1,39
+55		1,54
+60		1,72

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

Tripping characteristic



Technical data

Rated voltage Ue See approvals, page 217 AC 125; 250 V DC 32 V

Rated current I_n See approvals, page 217 2 – 16 A

Conditional short circuit current I_{nc} PC1, AC 250 V 1000 A

Short circuit capacity I_{CR} 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 R

Type of tripping • Thermal TO

• Cycling trip-free

Weight approx. 10 g

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CIRCUIT BREAKERS FOR EQUIPMENT TS-710

Approvals

Rated current range Rated voltage AC

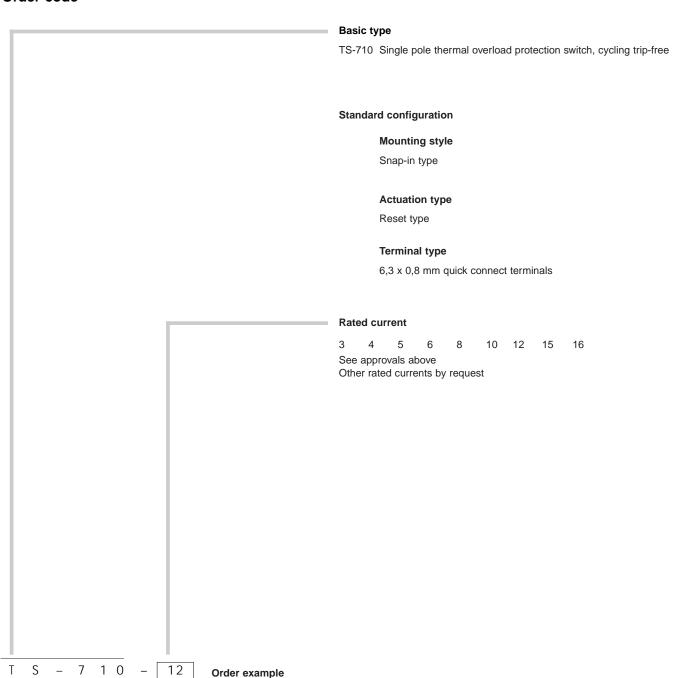
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CSA C 22,2

4 – 10 A

250 V

Order code



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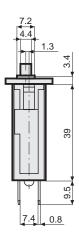
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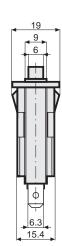
CIRCUIT BREAKERS FOR EQUIPMENT TS-710

Snap-in type





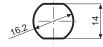














Schematic diagram

