

阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

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](#)

CIRCUIT BREAKERS FOR EQUIPMENT

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 re-close 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 snap-action 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.



CIRCUIT BREAKERS FOR EQUIPMENT

TS-701

Effect of ambient temperature

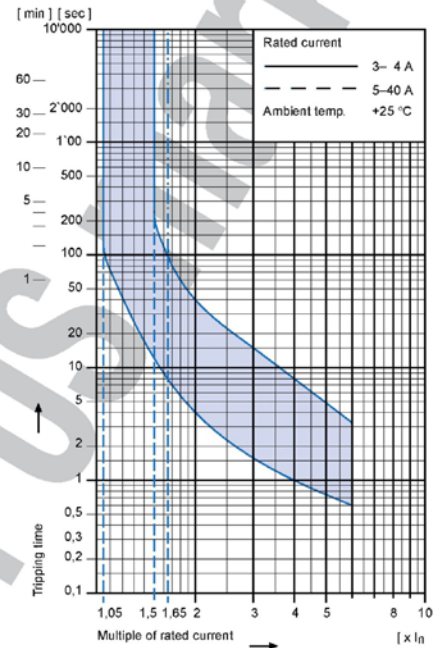
The unit is calibrated for an ambient temperature of +25°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below:

Ambient temperature [°C]	Correction factor	
	Rated current 3-5 A	6-40 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
 Ambient temperature +40°C
 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
Rated current I _n	See approvals, page 47E	3 – 40 A
Conditional short circuit current I _{nc}	PC1, AC 250 V	1000 A
Short circuit capacity I _{cn}	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 • Cycling trip-free	TO
Weight		approx. 24 g

MISSING PICTURE: \\192.168.100.135\EPIMFS\produktion\export\Datasheets_PrGrp\DS_PrGrp_Protection\PrGrp_CBE\DS_PrGrp_PG17_18_19__TS-Line_\2017_06_08\19_31_37_748_478009\DC0001307-003.jpg

MISSING PICTURE: \\192.168.100.135\EPIMFS\produktion\export\Datasheets_PrGrp\DS_PrGrp_Protection\PrGrp_CBE\DS_PrGrp_PG17_18_19__TS-Line_\2017_06_08\19_31_37_748_478009\DC0001307-004.jpg

CIRCUIT BREAKERS FOR EQUIPMENT

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 re-close 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 snap-action 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.



CIRCUIT BREAKERS FOR EQUIPMENT

TS-701

Effect of ambient temperature

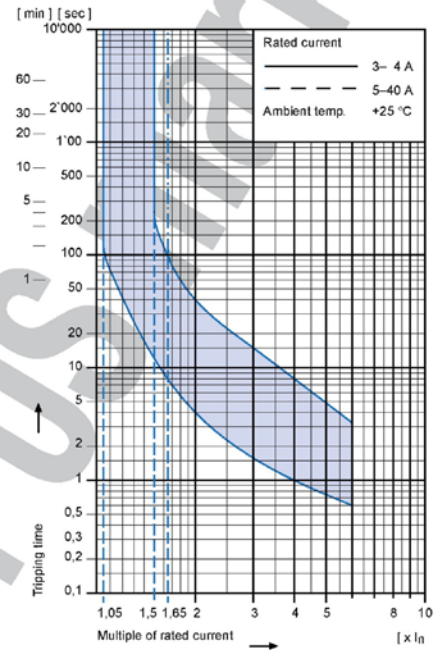
The unit is calibrated for an ambient temperature of +25°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below:

Ambient temperature [°C]	Correction factor	
	Rated current 3-5 A	6-40 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
 Ambient temperature +40°C
 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 U _e	See approvals, page 47E	AC 125; 250 V DC 50 V
Rated current I _n	See approvals, page 47E	3 – 40 A
Conditional short circuit current I _{nc}	PC1, AC 250 V	1000 A
Short circuit capacity I _{cn}	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 • Cycling trip-free	TO
Weight		approx. 24 g

MISSING PICTURE: \\192.168.100.135\EPIMFS\produktion\export\Datasheets_PrGrp\DS_PrGrp_Protection\PrGrp_CBE\DS_PrGrp_PG17_18_19__TS-Line_\2017_06_08\19_31_37_748_478009\DC0001307-003.jpg

MISSING PICTURE: \\192.168.100.135\EPIMFS\produktion\export\Datasheets_PrGrp\DS_PrGrp_Protection\PrGrp_CBE\DS_PrGrp_PG17_18_19__TS-Line_\2017_06_08\19_31_37_748_478009\DC0001307-004.jpg