

# TCP 10/12A - Thermal device circuit breaker



1538627

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1-channel thermal device circuit breaker for protecting loads at 250 V AC / 72 V DC in the event of an overload. For installation on fuse terminal blocks and interfaces for flat plug-in fuse of type C according to standard ISO 8820-3. With fixed nominal current: 12 A

## Your advantages

- Fast, replacement part-free recommissioning after an event with the reconnection options
- Easy to retrofit in existing systems with vehicle flat-type fuses with identical pin connector pattern
- System disconnection for maintenance actions via the integrated device switch

## Commercial data

Item number	1538627
Packing unit	18 pc
Minimum order quantity	20 pc
Sales key	CL15
Product key	CLA111
GTIN	4067923010628
Weight per piece (including packing)	13.25 g
Weight per piece (excluding packing)	13.25 g
Customs tariff number	85362010
Country of origin	ID

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## Technical data

### Product properties

Product type	Thermal device circuit breakers
Type	Male
Number of positions	1
No. of channels	1

### Insulation characteristics

Overvoltage category	II III (Actuation area)
Degree of pollution	2

### Electrical properties

Fuse type	Automatic device
Fuse	Slow-blow

### General

Rated voltage	250 V AC
	72 V DC
	250 V AC (UL/CSA)
	72 V DC (UL/CSA)
Rated current $I_N$	12 A
Rated surge voltage	2.5 kV
Insulation resistance $R_{iso}$	> 100 M $\Omega$ (500 V DC)
Tripping method	T (thermal)
Device resistance	0 $\Omega$
Rated short-circuit switching capacity $I_{cn}$	30 A (250 V AC)
	50 A (72 V DC)
Short-circuit switching capacity	2000 A (250 V AC / UL 1077)
	2000 A (72 V DC / UL 1077)
Dielectric strength	3000 V AC (Actuation area)
	1500 V AC (Installation area)
Switching cycles, max.	6000 (At 1 x $I_n$ , low-induction)
	3000 (At 1 x $I_n$ , inductive)
	40 (at 6 x $I_n$ , AC)
Contact switching type	Type C in accordance with ISO 8820-3

### Connection data

Connection method	pluggable
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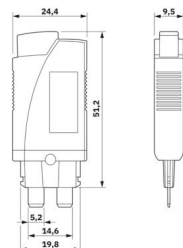
### Dimensions

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Dimensional drawing	
Width	9.5 mm
Height	24.4 mm
Depth	44.5 mm

## Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
Insulating material group	IIIb
Insulating material	PPS

## Mechanical properties

### Mechanical data

Open side panel	No
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP40 (Actuation area) IP00 (Connection area)
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 4000 m (amsl)
Humidity test	240 h, 95 % RH, 40 °C
Shock (operation)	25g (11 ms period, half-sine shock pulse, according to IEC 60068-2-27)
Vibration (operation)	± 0.38 mm (10 Hz ... 57 Hz) 5g (57 ... 500 Hz)

## Mounting

Mounting type	on base element
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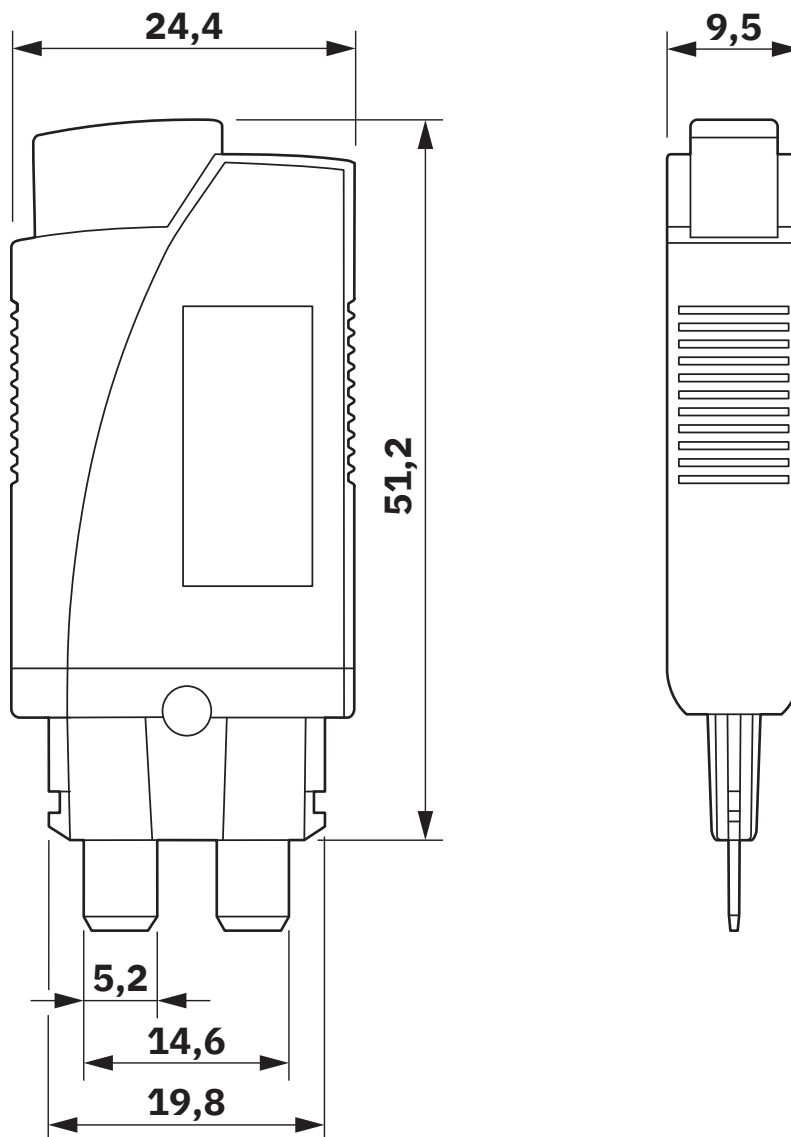
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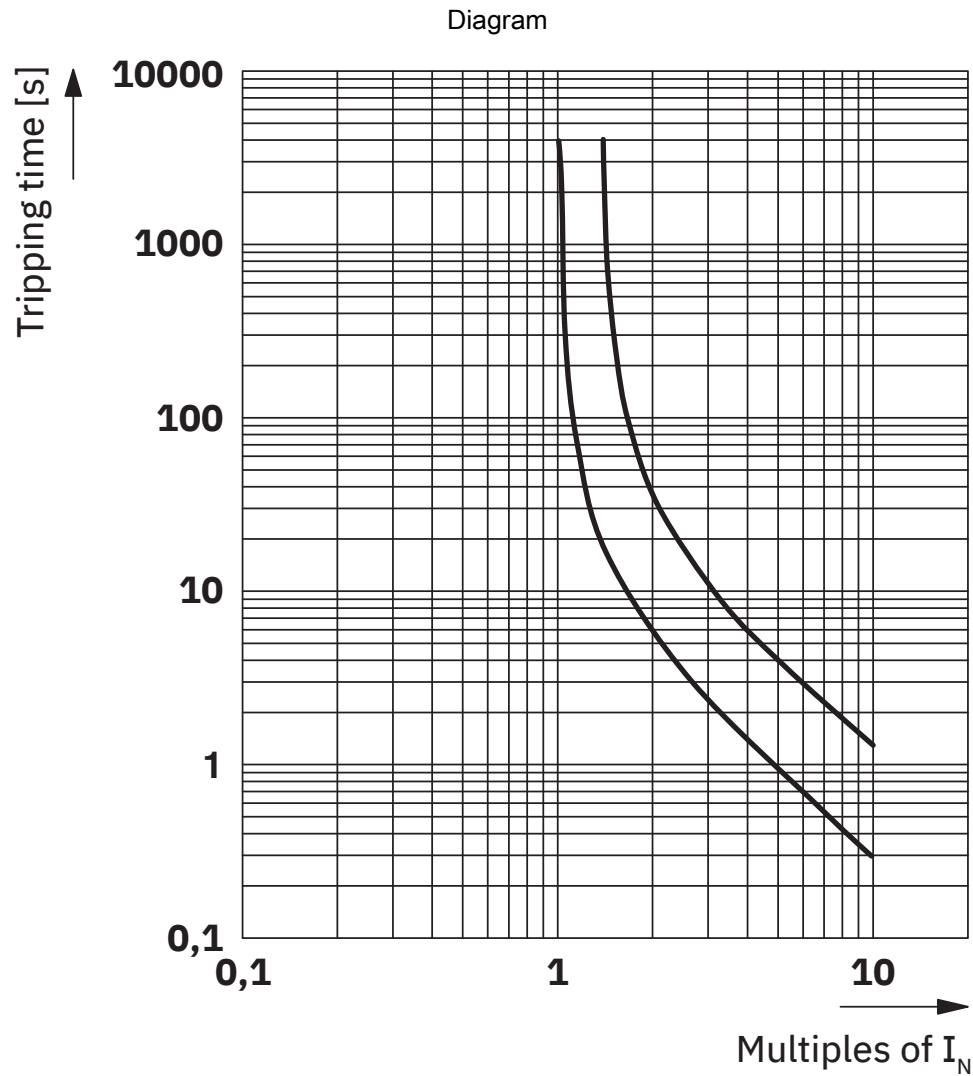
## Drawings

Dimensional drawing



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Trigger characteristic

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1538627>



**cUL Recognized**  
Approval ID: FILE E 140459



**UL Recognized**  
Approval ID: FILE E 140459



**VDE approval of drawings**  
Approval ID: 40054613



**CSA**  
Approval ID: 80136839



**CCC**  
Approval ID: 2025010307749781

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## Classifications

### ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

### ETIM

ETIM 10.0	EC003538
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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