

TCP 10/12A - Thermal device circuit breaker



1538627

<https://www.phoenixcontact.com/gb/products/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	1 pc
Sales key	CLA111
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 Ω (500 V DC)
Tripping method	T (thermal)
Device resistance	0 Ω
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

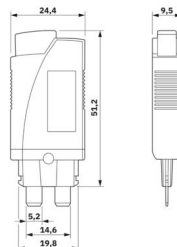
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Dimensional drawing



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 ... 57 Hz) 5g (57 ... 500 Hz)

Mounting

Mounting type	on base element
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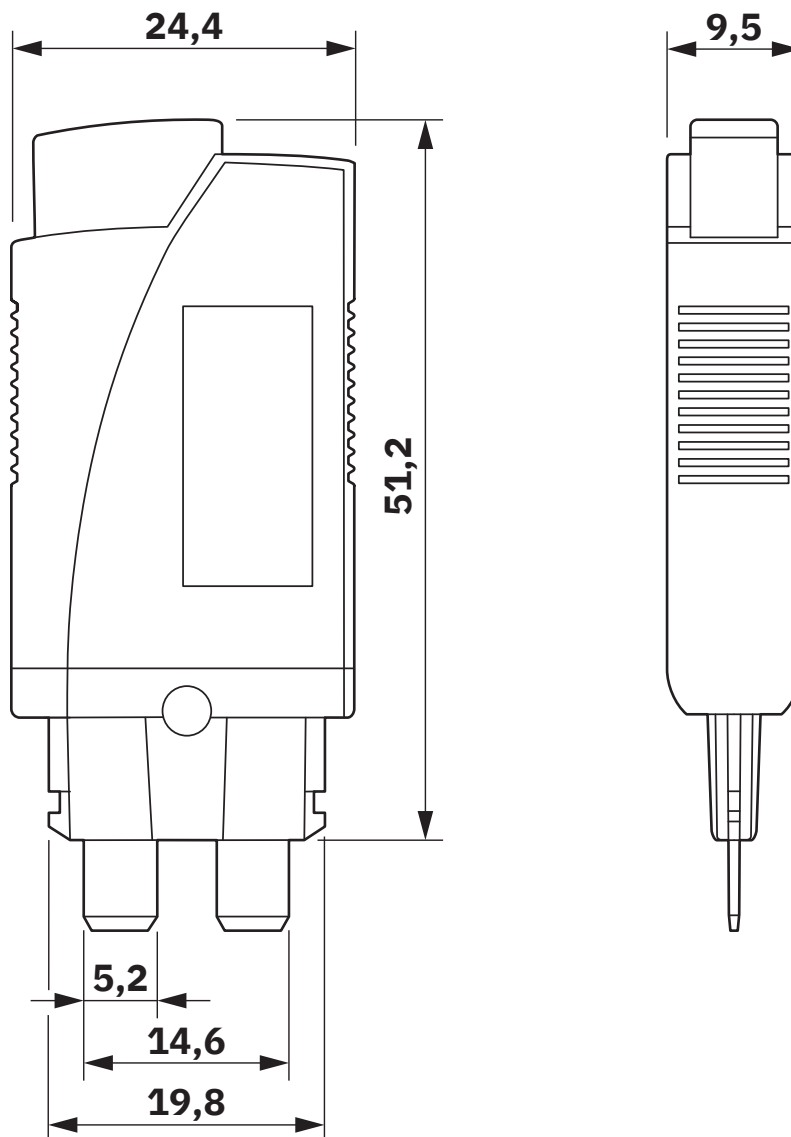
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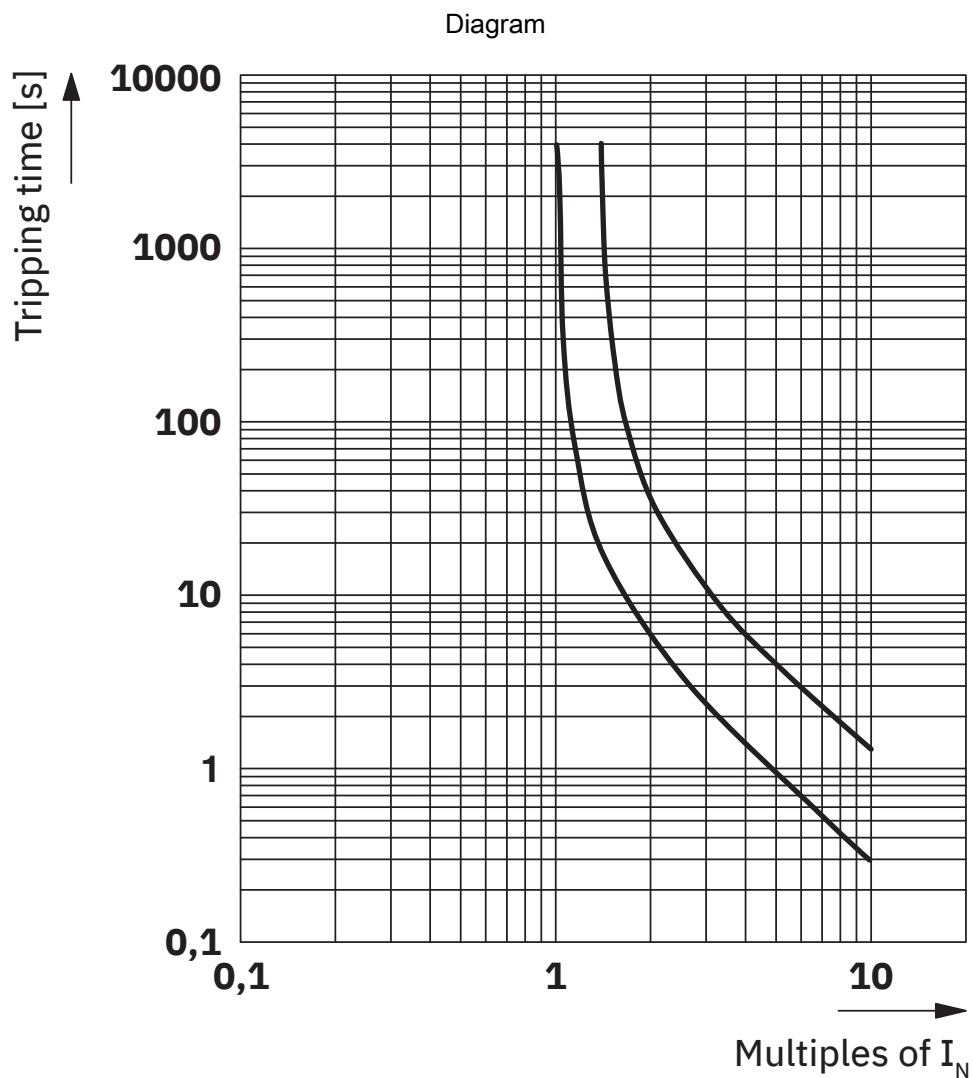
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Drawings

Dimensional drawing





Trigger characteristic

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Approvals

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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
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ETIM

ETIM 9.0	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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