

TCP 5A - Thermal device circuit breaker



1538622

<https://www.phoenixcontact.com/gb/products/1538622>

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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: 5 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	1538622
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	CLA111
Product key	CLA111
GTIN	4067923010086
Weight per piece (including packing)	11.45 g
Weight per piece (excluding packing)	16.742 g
Customs tariff number	85362010
Country of origin	ID

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Technical data

Notes

General	When mounted in rows, the nominal device current can be limited to just 80% or must be oversized accordingly.
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Product properties

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

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Electrical properties

Fuse type	Automatic device
Maximum power dissipation for nominal condition	$\leq 0.9 \text{ VA}$
Fuse	Slow-blow

General

Rated voltage	250 V AC
	65 V DC
	250 V AC (AC according to UL 1077)
	72 V DC (DC according to UL 1077)
Rated current I_N	5 A
Rated surge voltage	2.5 kV
Insulation resistance R_{iso}	$> 100 \text{ M}\Omega$ (500 V DC)
Tripping method	T (thermal)
Device resistance	$0.05 \text{ }\Omega$
Rated short-circuit switching capacity I_{cn}	30 A (250 V AC / 65 V DC)
	50 A (30 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 $1 \times I_N$, low-induction)
	3000 (At $1 \times I_N$, inductive)
	500 (At $2 \times I_N$, inductive)
Contact switching type	Type C in accordance with ISO 8820-3

Connection data

Nominal current	5 A
Nominal voltage	250 V AC

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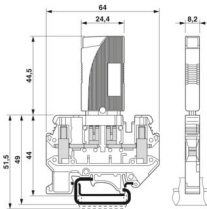


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	65 V DC
Connection method	pluggable

Dimensions

Dimensional drawing	
Width	8.2 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

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP40 (Actuation area)
Ambient temperature (operation)	-20 °C ... 60 °C
Altitude	≤ 4000 m (amsl)
Humidity test	240 h, 95 % RH, 40 °C

Mounting

Mounting type	on base element
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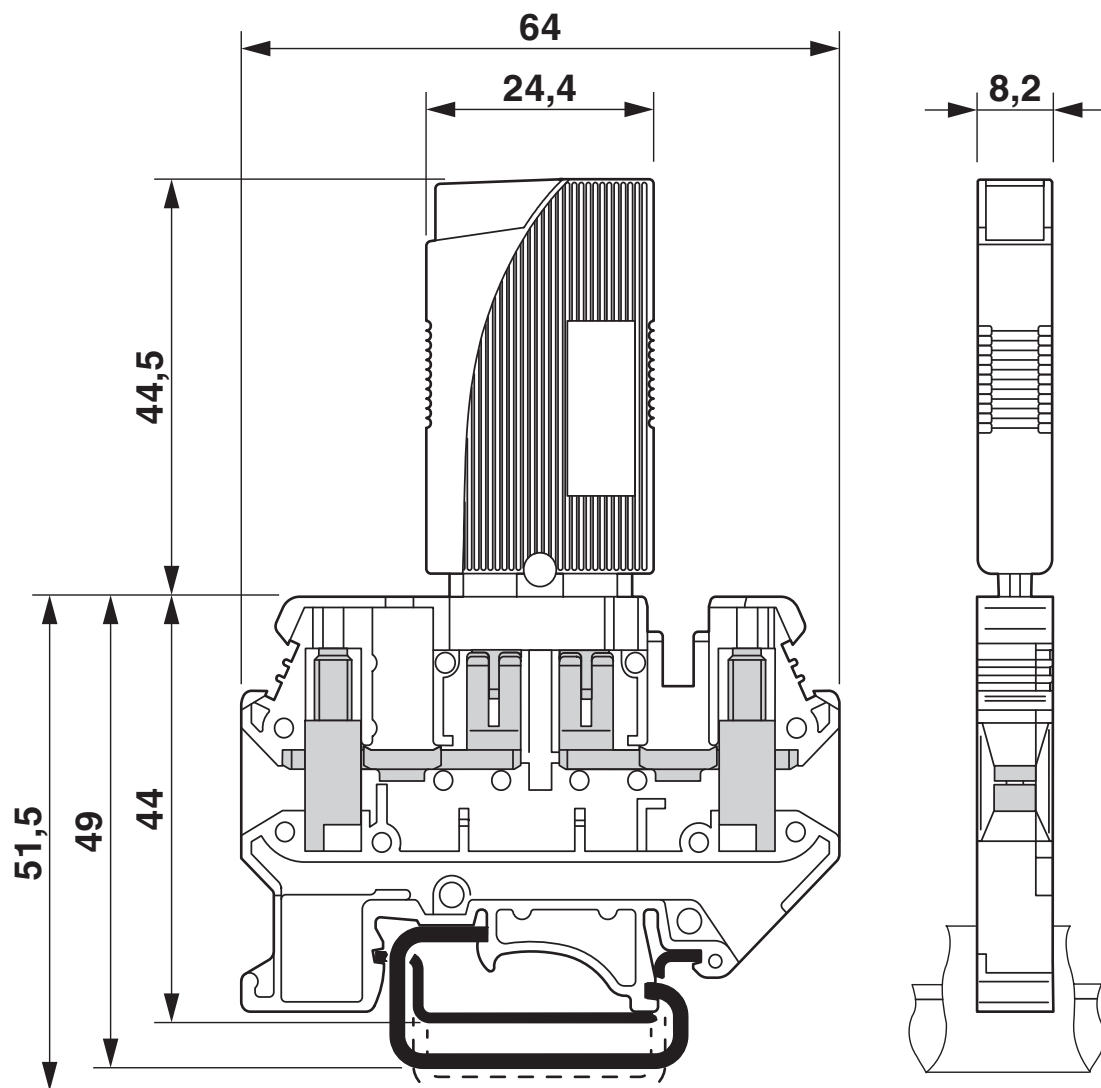
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Drawings

Dimensional drawing



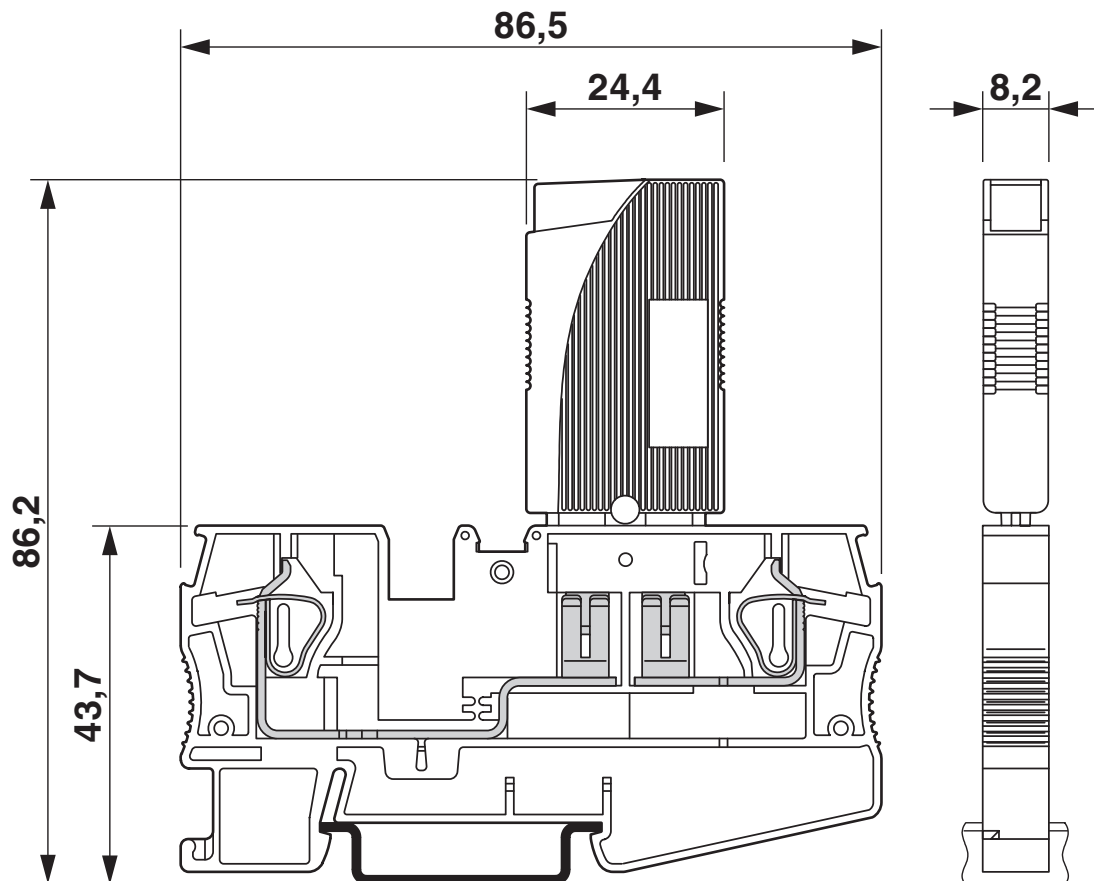
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Dimensional drawing



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Product drawing



The figure shows the product with the base element PT 6-FSI/C-LED 24 (Item No.: 3212172).

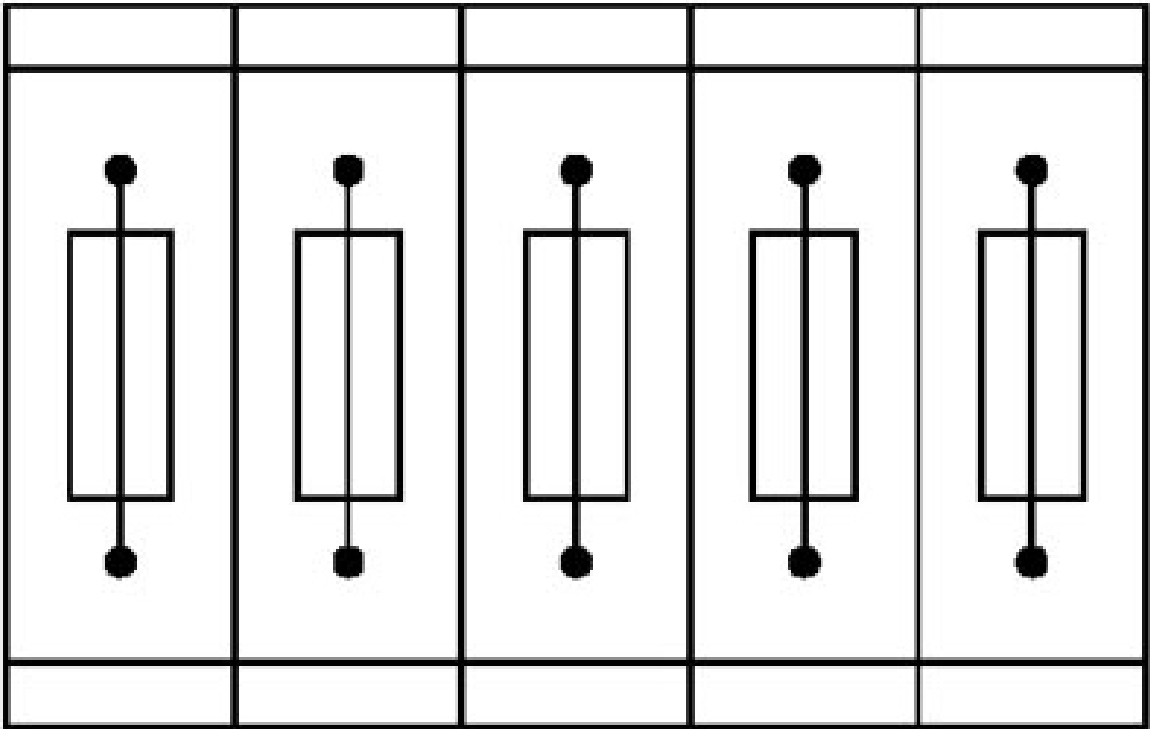
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Application drawing



Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

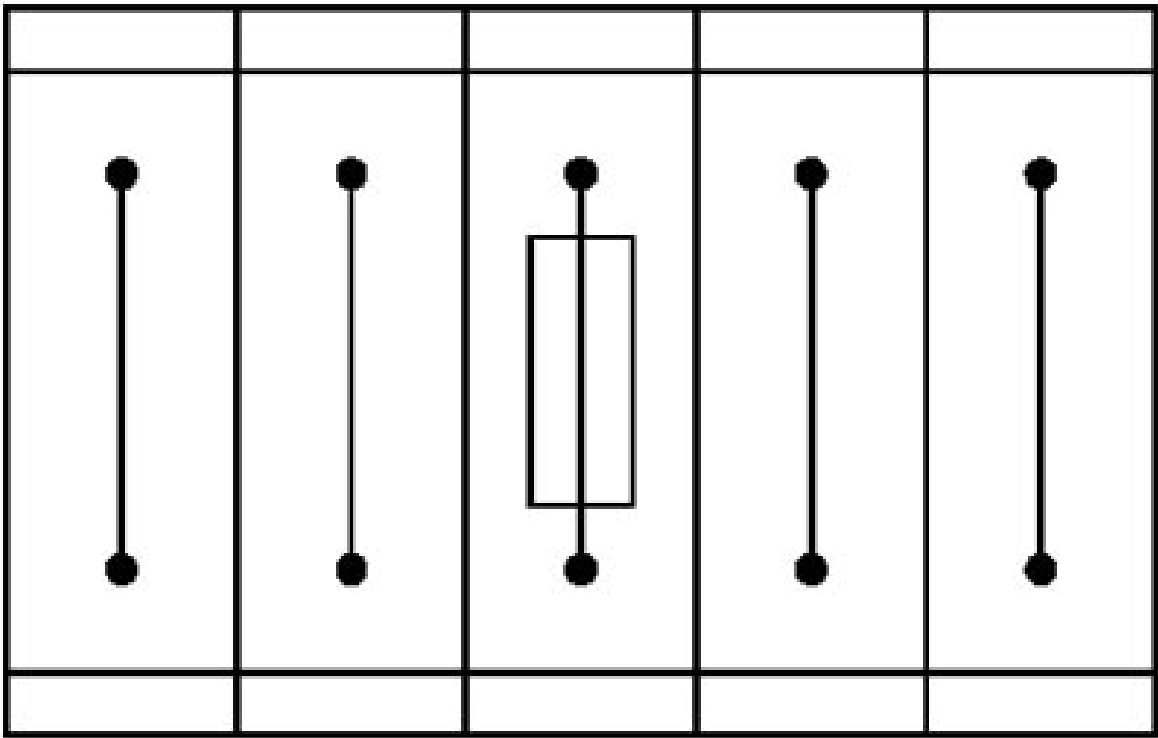
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Application drawing



Fuse terminal block in single arrangement,
block consisting of one fuse terminal block and 4 feed-through terminal blocks

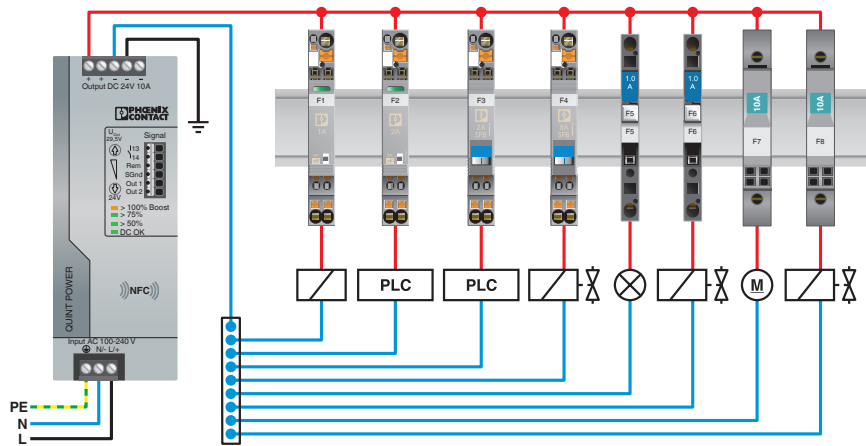
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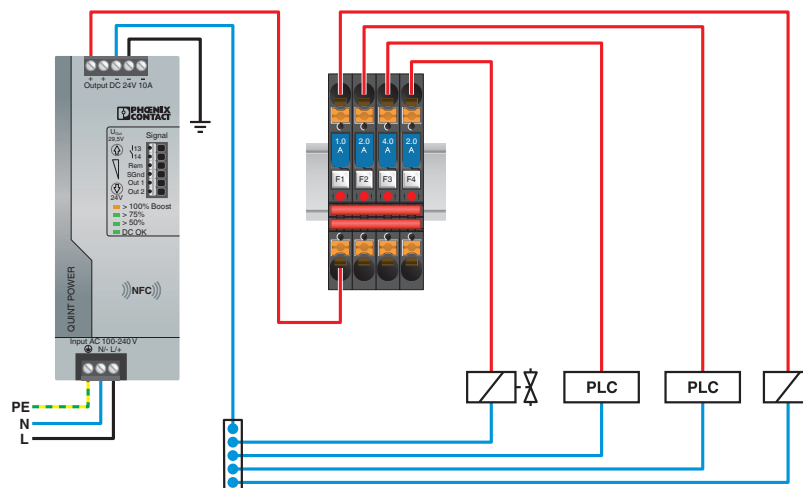
<https://www.phoenixcontact.com/gb/products/1538622>



Application drawing



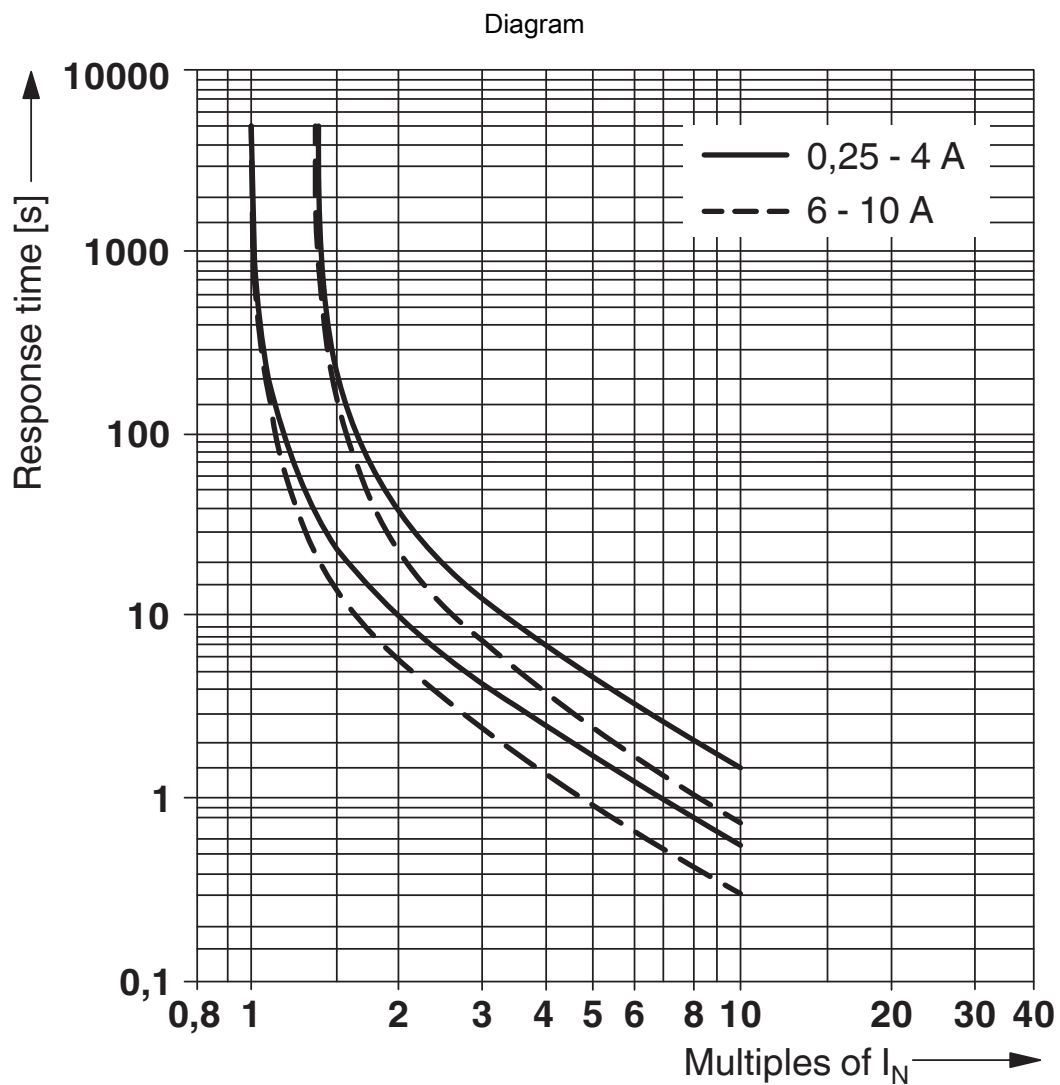
Application drawing



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Trigger characteristic

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1538622>



cUL Recognized
Approval ID: FILE E 140459



UL Recognized
Approval ID: FILE E 140459



VDE approval of drawings
Approval ID: 40034332



CCC
Approval ID: 2025010307749780

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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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