

TCP 6A - Thermal device circuit breaker



0712275

<https://www.phoenixcontact.com/us/products/0712275>

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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: 6 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 | 0712275 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL15 |
| Product key | CLA111 |
| GTIN | 4017918848392 |
| Weight per piece (including packing) | 10.664 g |
| Weight per piece (excluding packing) | 9.6 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 overdimensioned accordingly. |
|---------|---|

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 | ≤ 0.9 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 | 6 A |
| Rated surge voltage | 2.5 kV |
| Insulation resistance R_{ISO} | > 100 M Ω (500 V DC) |
| Tripping method | T (thermal) |
| Device resistance | 0.05 Ω |
| Rated short-circuit switching capacity I_{cn} | 48 A (250 V AC / 65 V DC) |
| | 60 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 | 6 A |
| Nominal voltage | 250 V AC |

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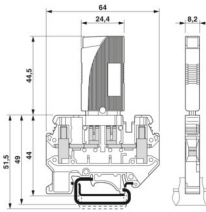


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| | |
|-------------------|-----------|
| | 65 V DC |
| Connection method | pluggable |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 8.2 mm |
| Height | 24.4 mm |
| Height NS 35/7,5 | 55 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 |

Standards and regulations

| | |
|--------------------------|----------|
| Standards/specifications | EN 60934 |
|--------------------------|----------|

Mounting

| | |
|---------------|-----------------|
| Mounting type | on base element |
|---------------|-----------------|

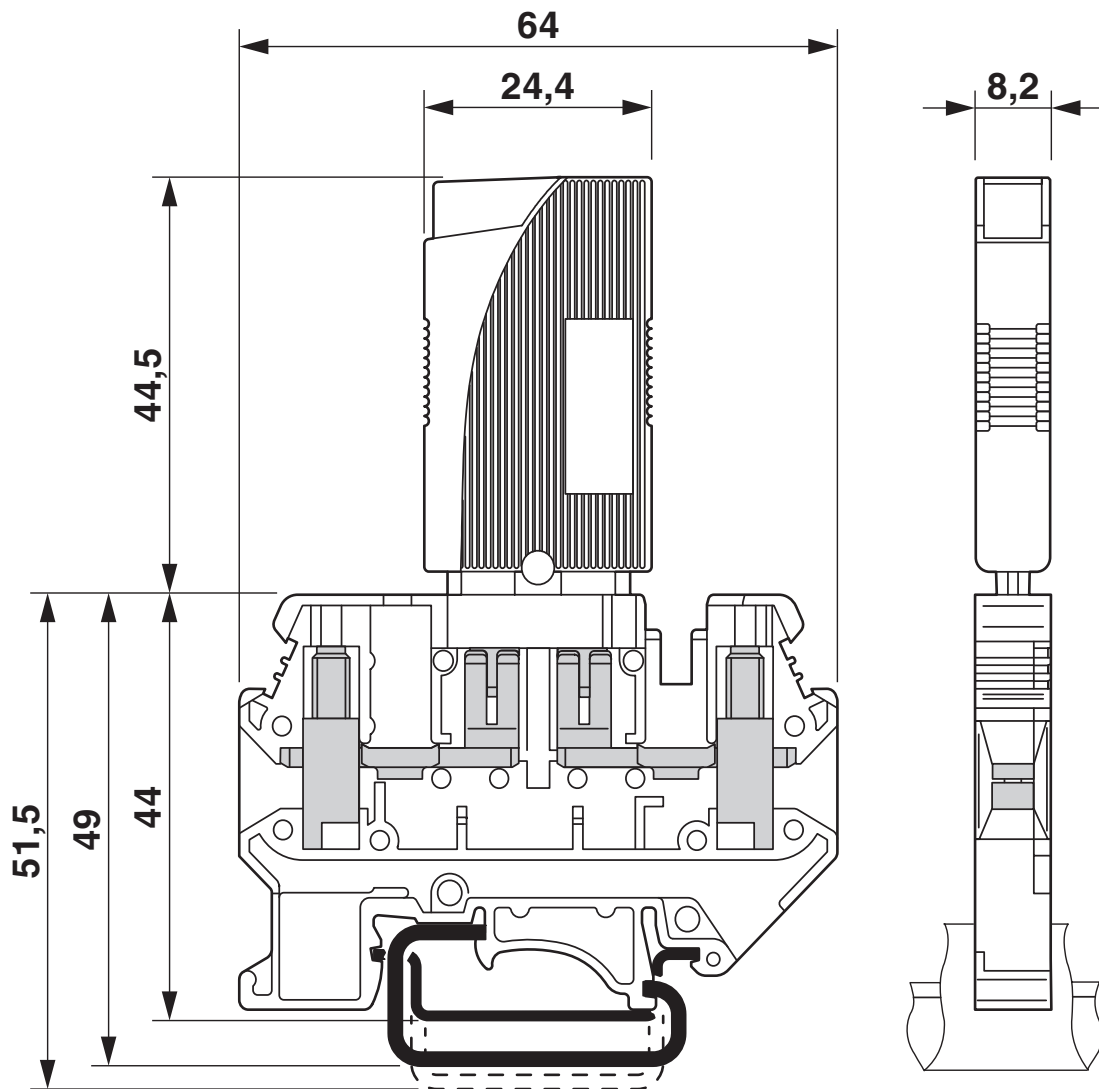
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Drawings

Dimensional drawing



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Dimensional drawing



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Product drawing



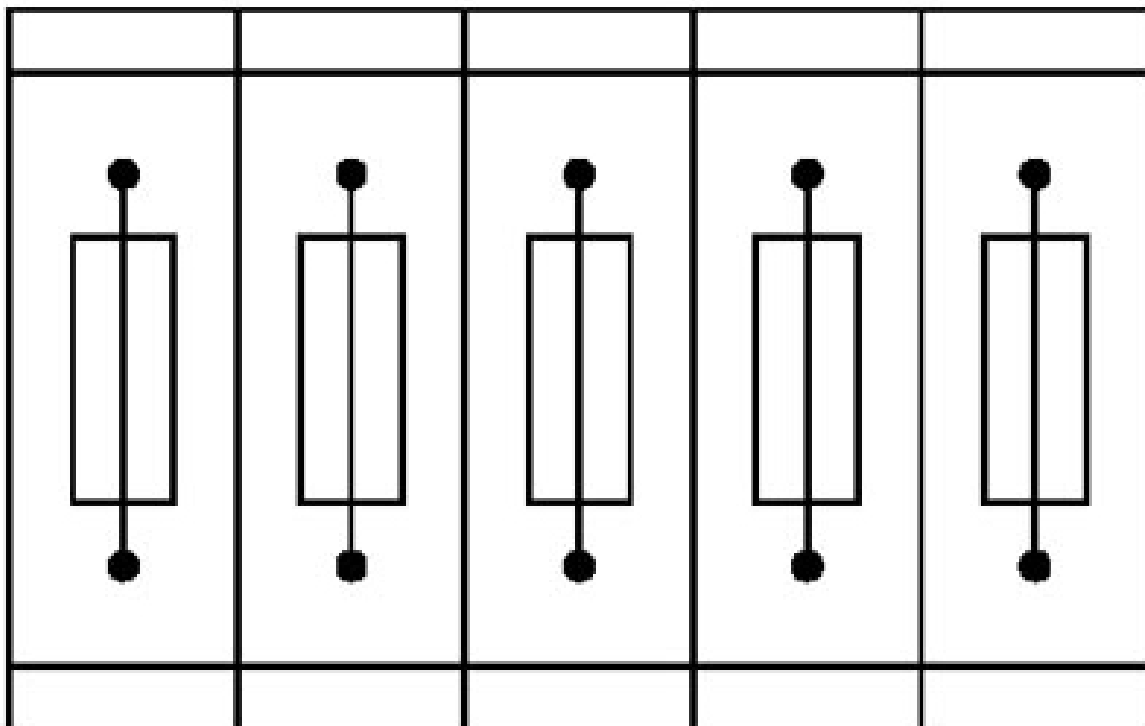
The figure shows the product with the base element PT 6-FSI/C-LED 24 (Item No.: 3212172).

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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



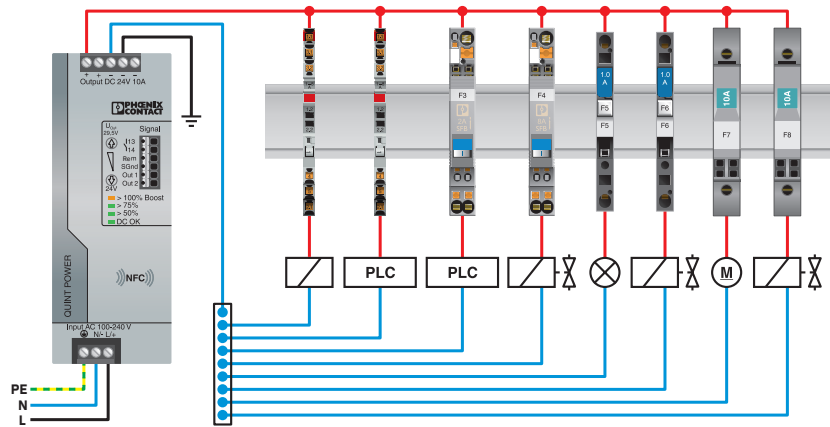
Fuse terminal block in single arrangement,
block consisting of one fuse terminal block and 4 feed-through terminal blocks

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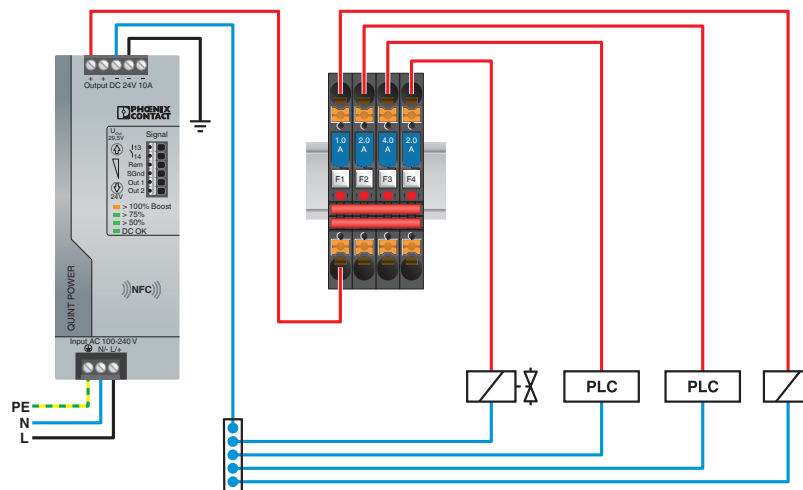
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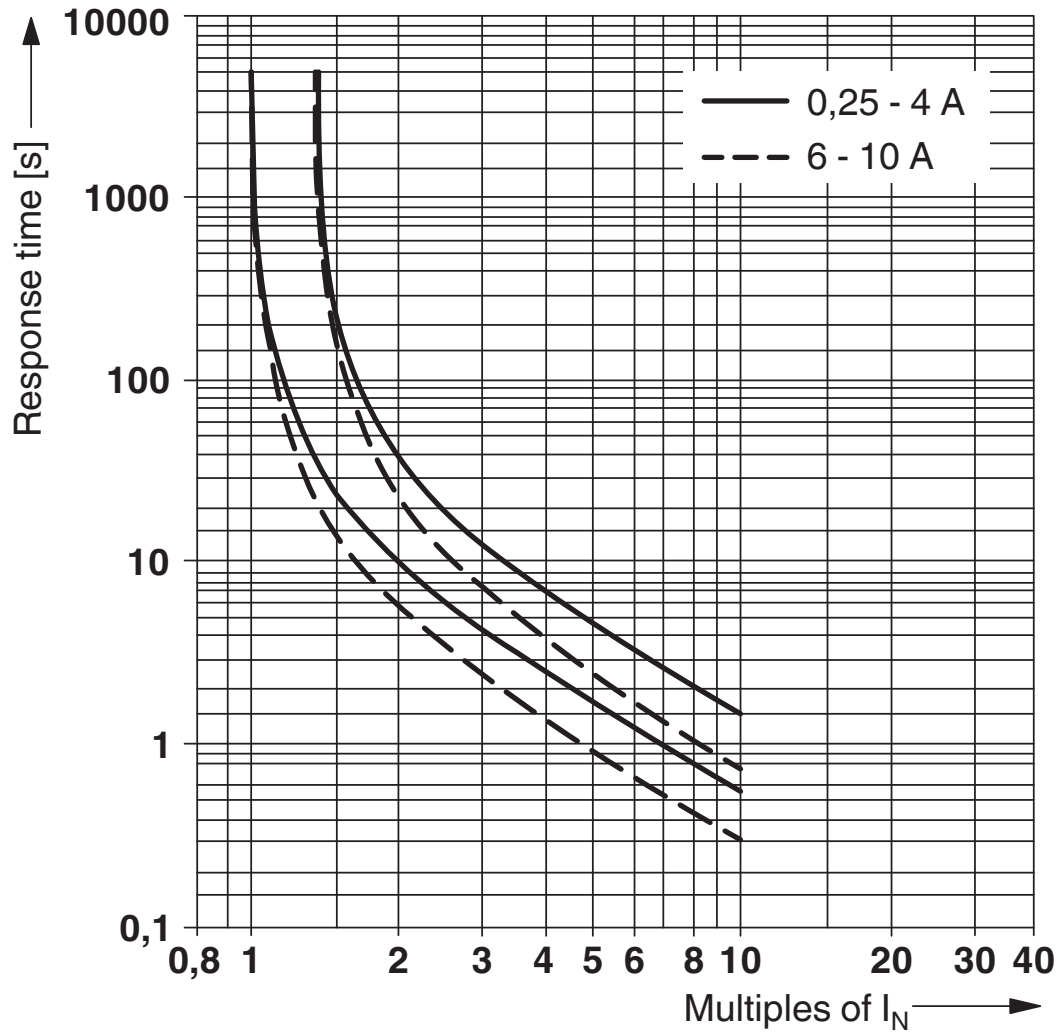
Application drawing



Application drawing



Diagram



Trigger characteristic

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0712275>

|  CSA Approval ID: 074317 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 250 V | 6 A | - | - |

|  cUL Recognized Approval ID: FILE E 140459 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  UL Recognized Approval ID: FILE E 140459 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

|  VDE Zeichengenehmigung Approval ID: 40034332 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

|  CCC Approval ID: 2025010307749780 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

| UAE-RoHS Approval ID: 23-10-88896 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27140401 |
| ECLASS-15.0 | 27140401 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC003538 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 1.342 kg CO2e |
|---------|---------------|

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