

# TCP 0,5A - Thermal device circuit breaker



0712152

<https://www.phoenixcontact.com/au/products/0712152>

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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: 0.5 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                          | 0712152             |
| Packing unit                         | 20 pc               |
| Minimum order quantity               | 1 pc                |
| Sales key                            | CLA111              |
| Product key                          | CLA111              |
| Catalog page                         | Page 401 (C-4-2019) |
| GTIN                                 | 4017918848347       |
| Weight per piece (including packing) | 11.12 g             |
| Weight per piece (excluding packing) | 11.12 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. |
|---------|---------------------------------------------------------------------------------------------------------------|

### 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 |
| 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 $I_N$                             | 0.5 A                                |
| Rated surge voltage                             | 2.5 kV                               |
| Insulation resistance $R_{iso}$                 | > 100 M $\Omega$ (500 V DC)          |
| Tripping method                                 | T (thermal)                          |
| Device resistance                               | 3.4 $\Omega$                         |
| Rated short-circuit switching capacity $I_{cn}$ | 3 A (250 V AC / 65 V DC)             |
|                                                 | 12.5 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 x $I_N$ , low-induction)  |
|                                                 | 3000 (At 1 x $I_N$ , inductive)      |
|                                                 | 500 (At 2 x $I_N$ , inductive)       |
| Contact switching type                          | Type C in accordance with ISO 8820-3 |

### Connection data

|                 |          |
|-----------------|----------|
| Nominal current | 0.5 A    |
| Nominal voltage | 250 V AC |
|                 | 65 V DC  |

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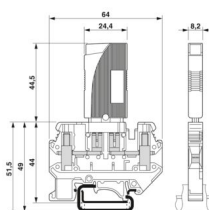
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|                   |           |
|-------------------|-----------|
| Connection method | pluggable |
|-------------------|-----------|

## 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                |
| 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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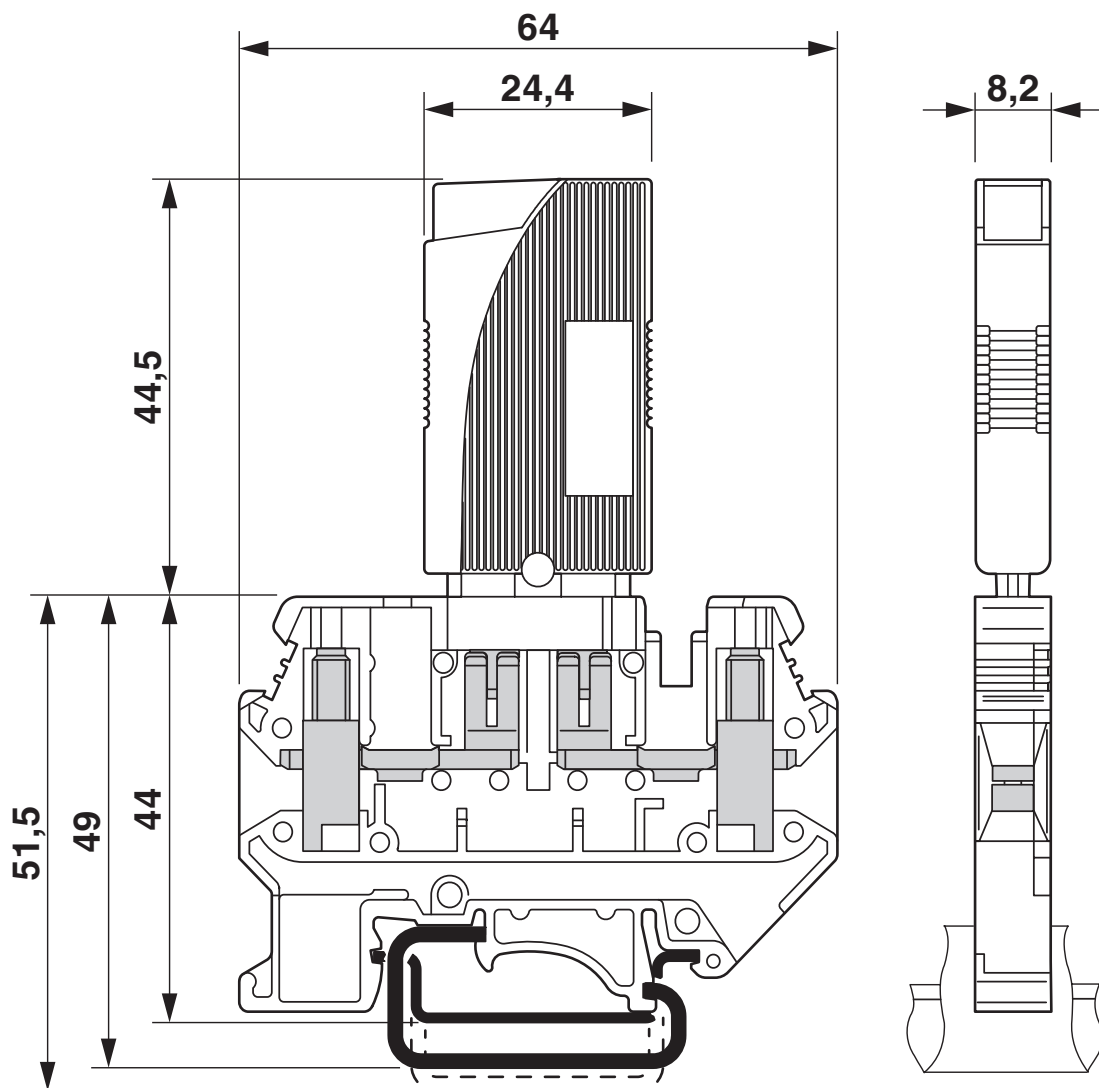
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## Drawings

Dimensional drawing



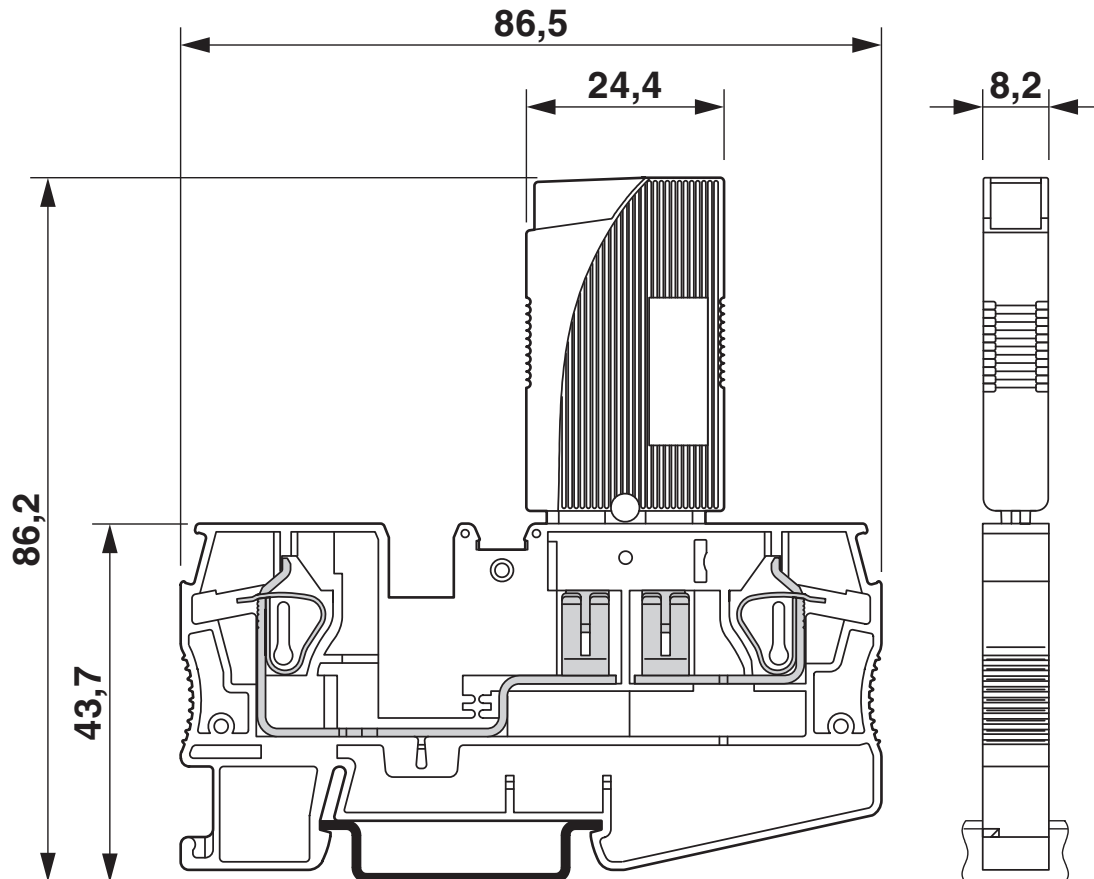
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Dimensional drawing



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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

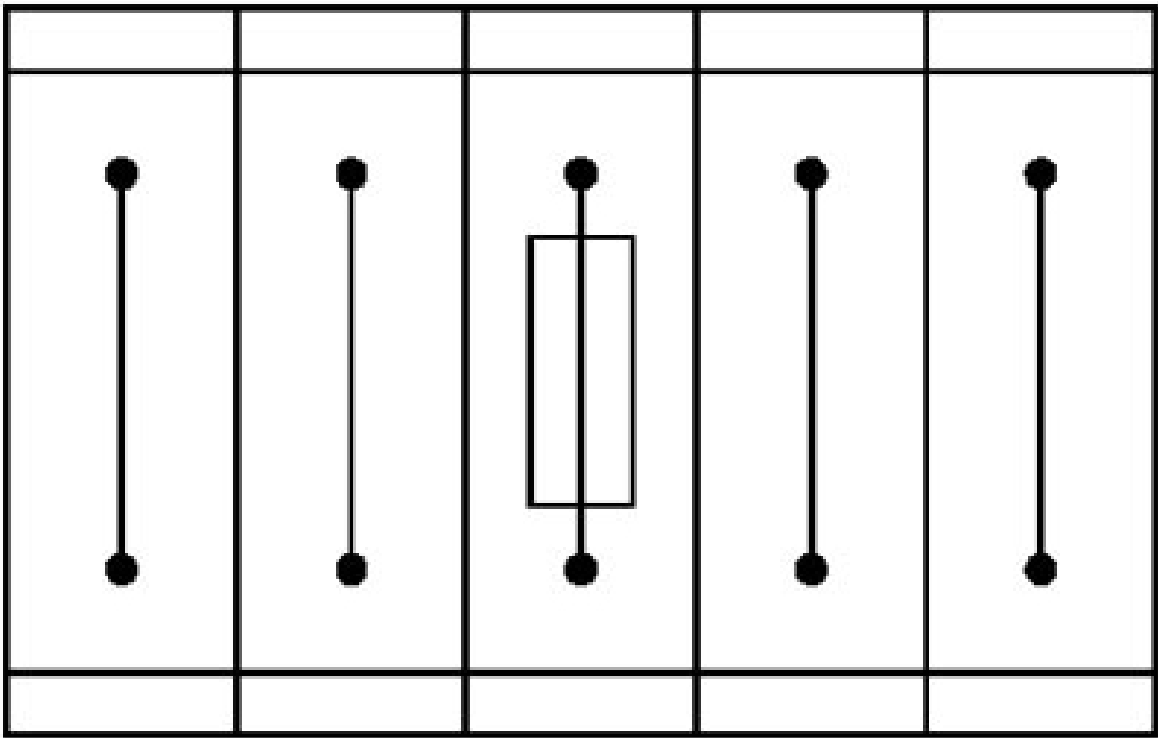
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Application drawing



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

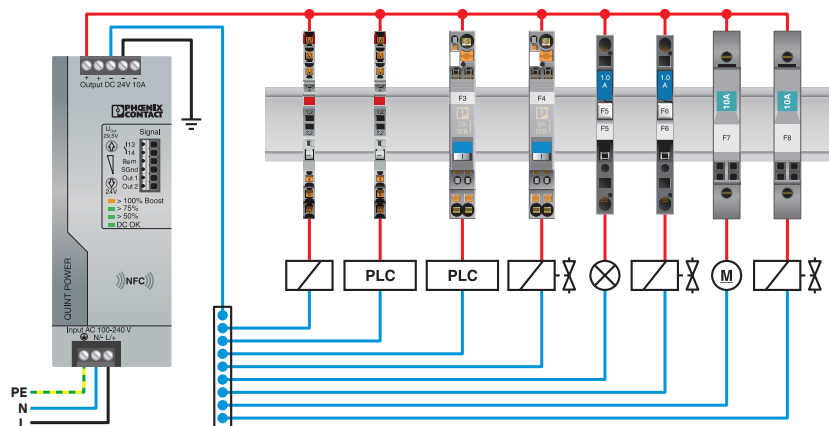
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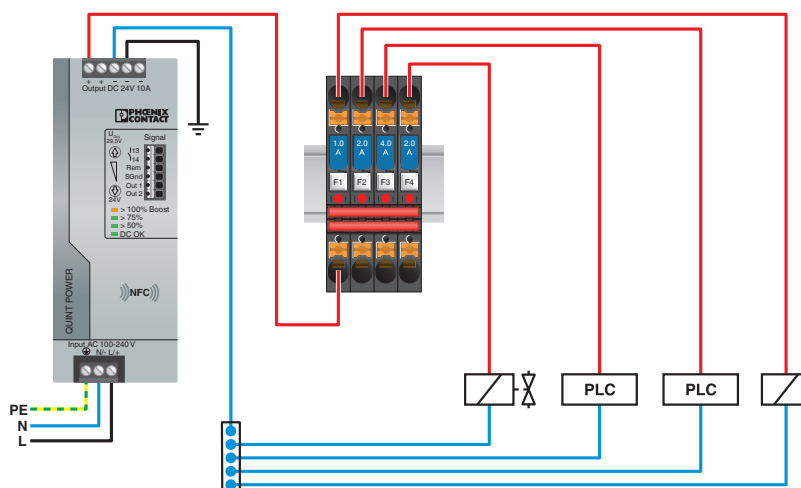
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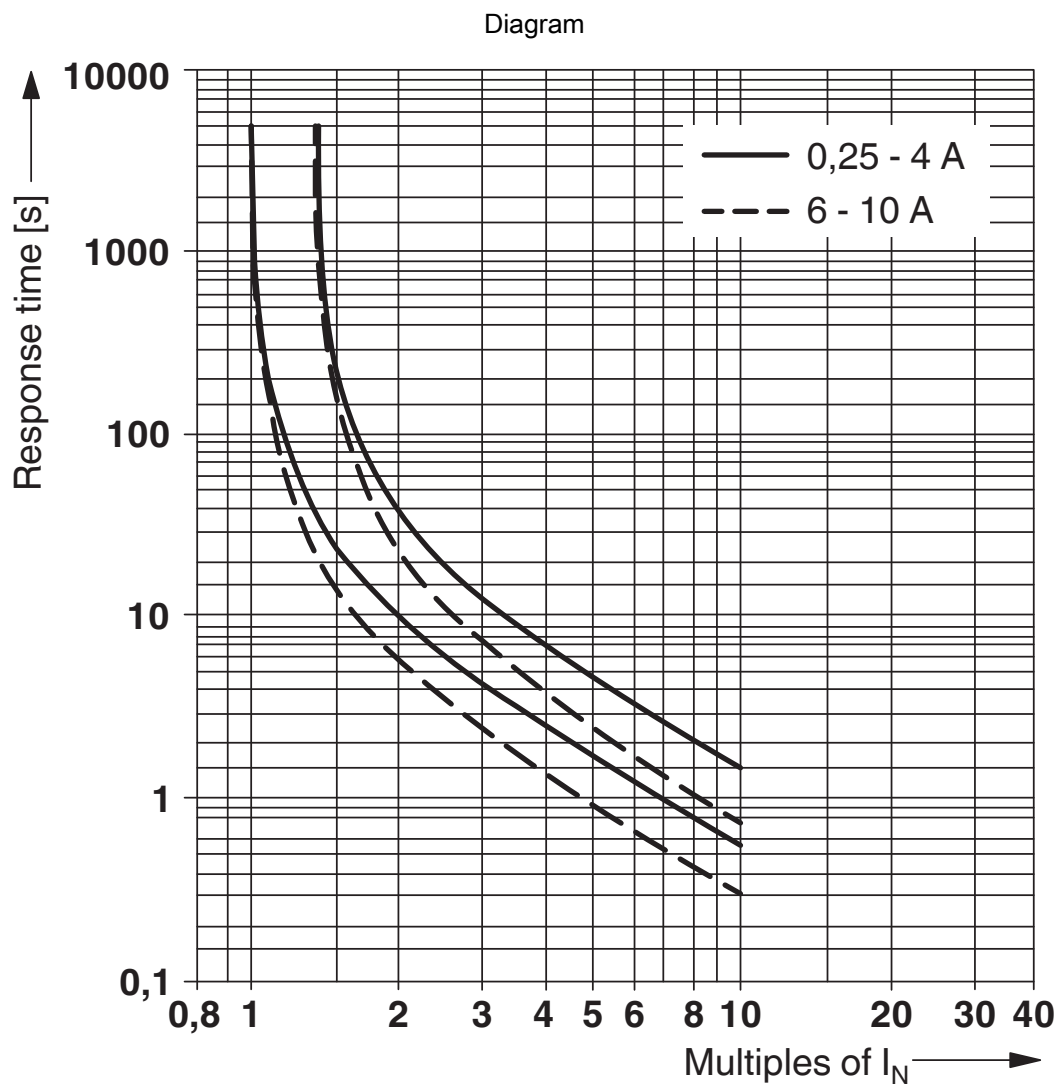


Application drawing



Application drawing





Trigger characteristic

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/0712152>



**CSA**

Approval ID: 074317

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 250 V                 | 0.5 A                 | -                 | -                           |



**cUL Recognized**

Approval ID: FILE E 140459



**UL Recognized**

Approval ID: FILE E 140459



**EAC**

Approval ID: EAC-Zulassung



**EAC**

Approval ID: RU C-DE.A\*30.B01546



**VDE approval of drawings**

Approval ID: 40034332



**CCC**

Approval ID: 2025010307749780

**UAE-RoHS**

Approval ID: 23-10-88896

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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%               |
| EF3.0 Climate Change                    |                                          |
| CO2e kg                                 | 1.373 kg CO2e                            |

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