

# TCP 4A - Thermal device circuit breaker



0712259  
<https://www.phoenixcontact.com/us/products/0712259>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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: 4 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                          | 0712259       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CL15          |
| Product key                          | CLA111        |
| GTIN                                 | 4017918848385 |
| Weight per piece (including packing) | 11.3 g        |
| Weight per piece (excluding packing) | 11.12 g       |
| Customs tariff number                | 85362010      |
| Country of origin                    | ID            |

# TCP 4A - Thermal device circuit breaker



0712259

<https://www.phoenixcontact.com/us/products/0712259>

## 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 $I_N$                             | 4 A                                  |
| Rated surge voltage                             | 2.5 kV                               |
| Insulation resistance $R_{iso}$                 | > 100 M $\Omega$ (500 V DC)          |
| Tripping method                                 | T (thermal)                          |
| Device resistance                               | 0.07 $\Omega$                        |
| Rated short-circuit switching capacity $I_{cn}$ | 24 A (250 V AC / 65 V DC)            |
|                                                 | 40 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 | 4 A      |
| Nominal voltage | 250 V AC |
|                 | 65 V DC  |

# TCP 4A - Thermal device circuit breaker



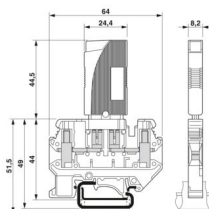
0712259

<https://www.phoenixcontact.com/us/products/0712259>

|                   |           |
|-------------------|-----------|
| 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 |
|---------------|-----------------|

# TCP 4A - Thermal device circuit breaker

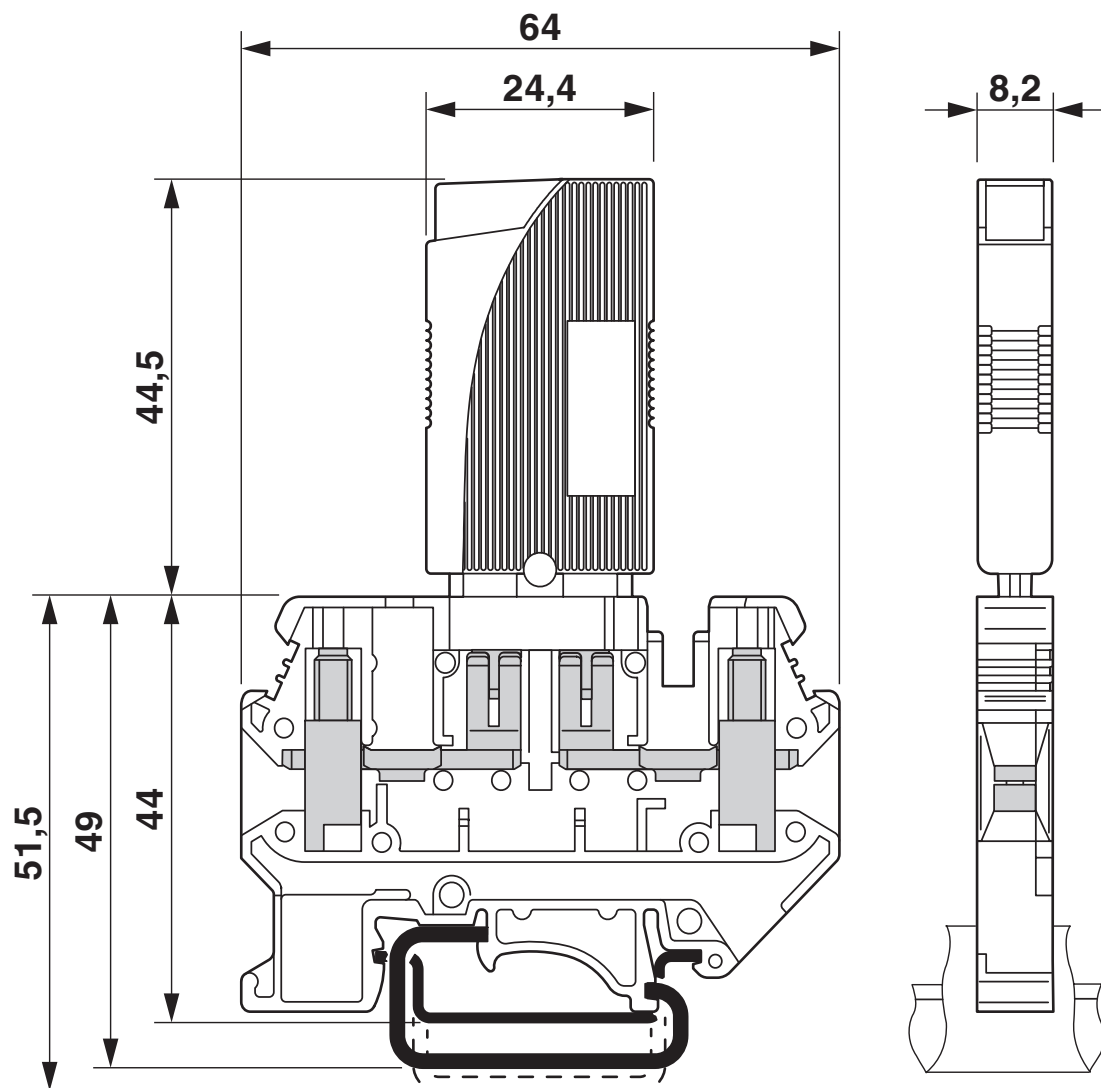
0712259

<https://www.phoenixcontact.com/us/products/0712259>



## Drawings

Dimensional drawing



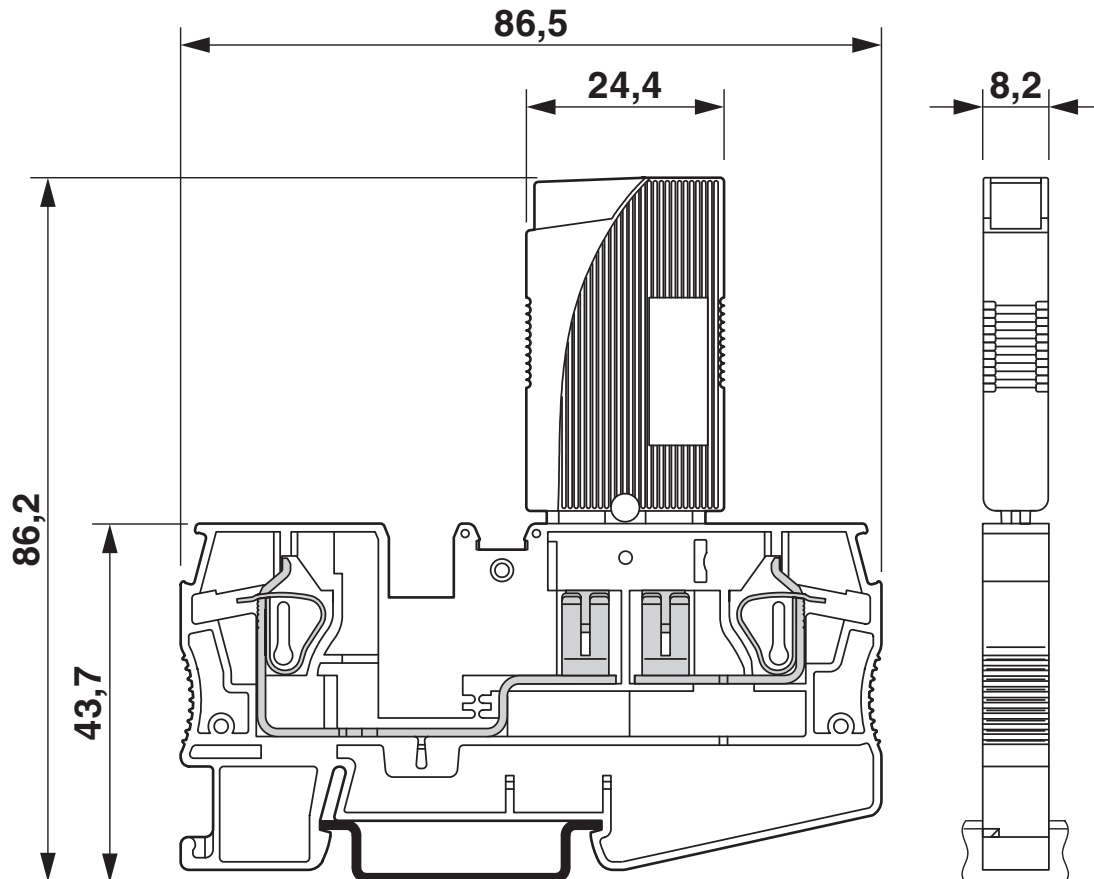
# TCP 4A - Thermal device circuit breaker

0712259

<https://www.phoenixcontact.com/us/products/0712259>



Dimensional drawing



# TCP 4A - Thermal device circuit breaker

0712259

<https://www.phoenixcontact.com/us/products/0712259>



Product drawing



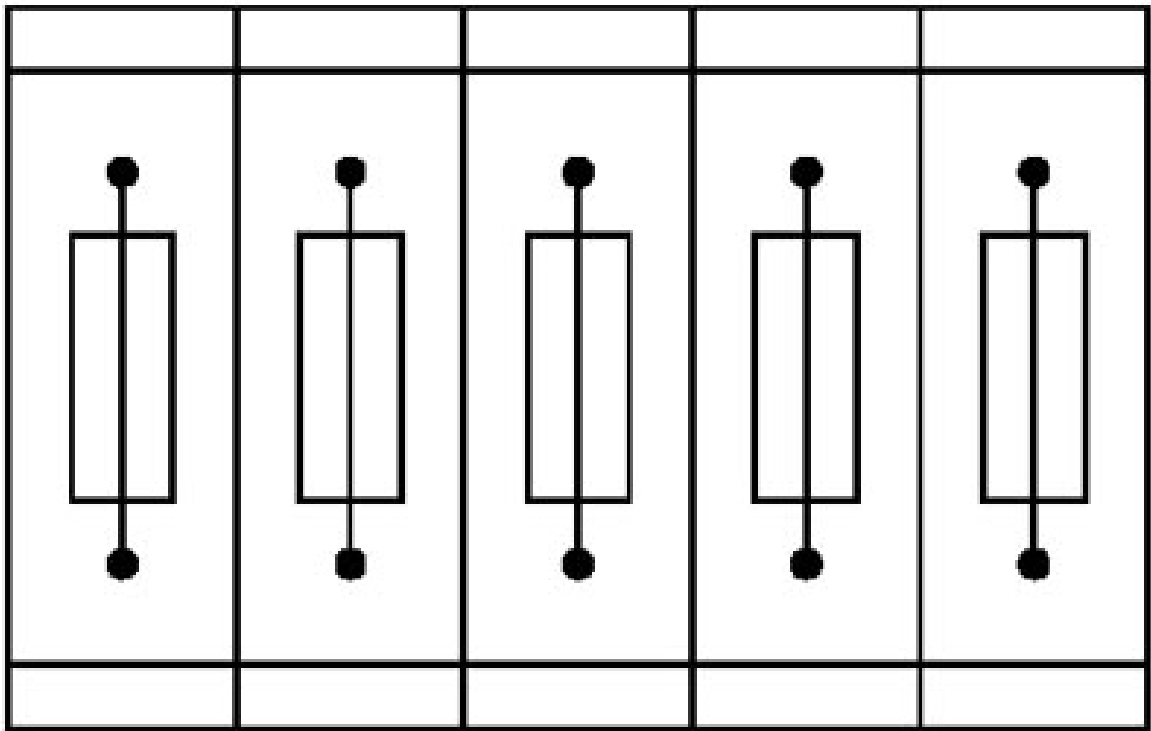
The figure shows the product with the base element PT 6-FSI/C-LED 24 (Item No.: 3212172).

TCP 4A - Thermal device circuit breaker



0712259  
<https://www.phoenixcontact.com/us/products/0712259>

Application drawing



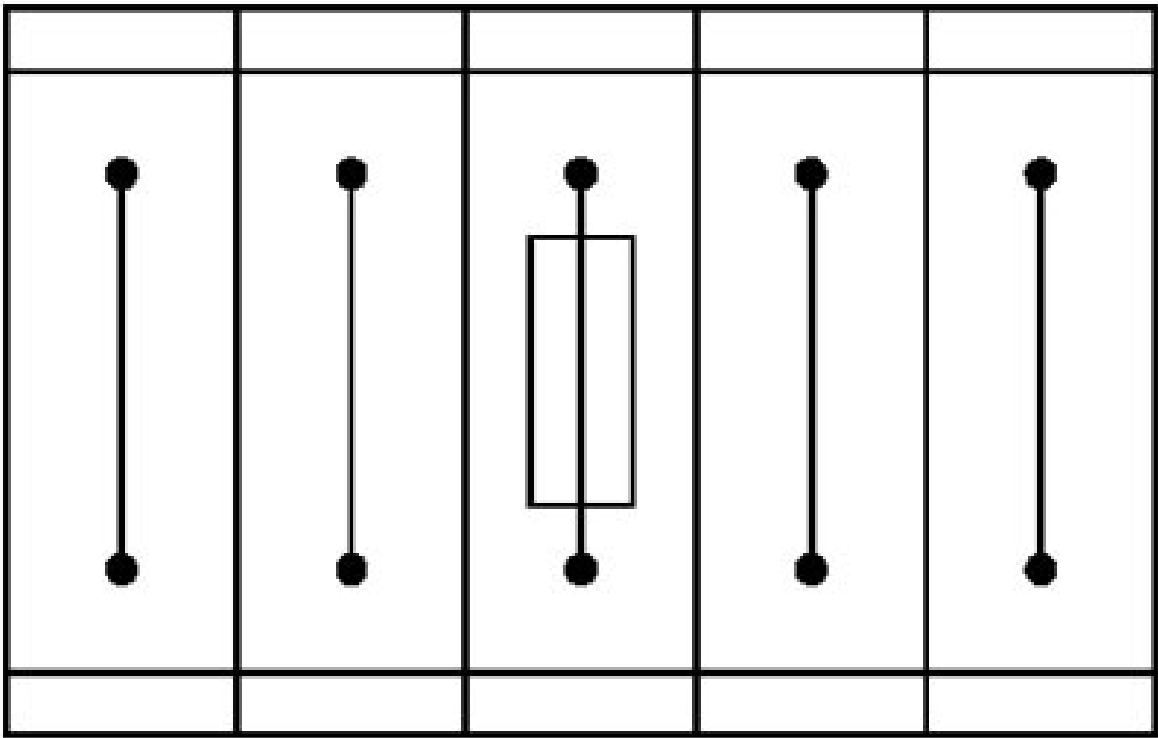
Fuse terminal blocks in interconnected arrangement,  
block consisting of 5 fuse terminal blocks

TCP 4A - Thermal device circuit breaker



0712259  
<https://www.phoenixcontact.com/us/products/0712259>

Application drawing



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

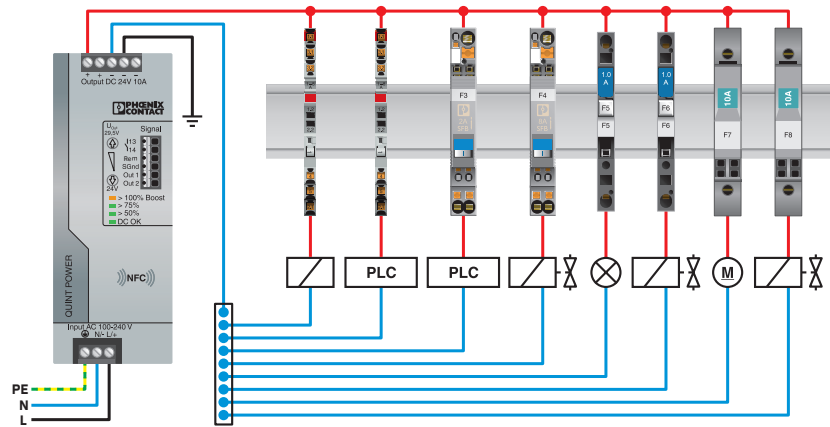
# TCP 4A - Thermal device circuit breaker

0712259

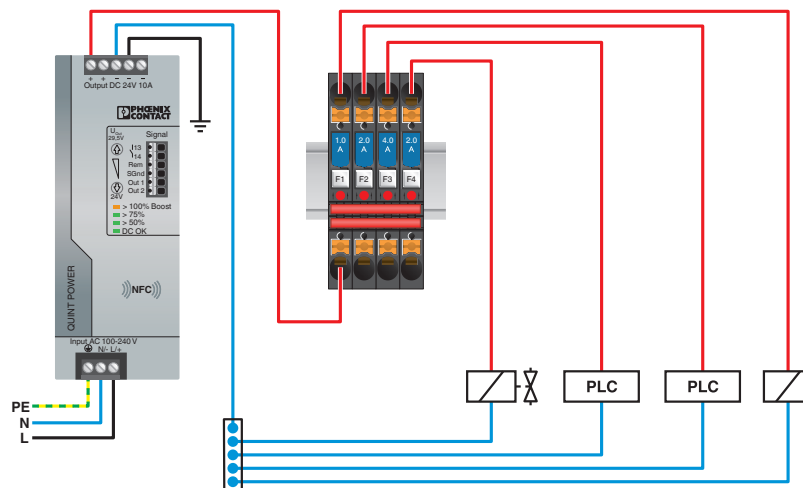
<https://www.phoenixcontact.com/us/products/0712259>

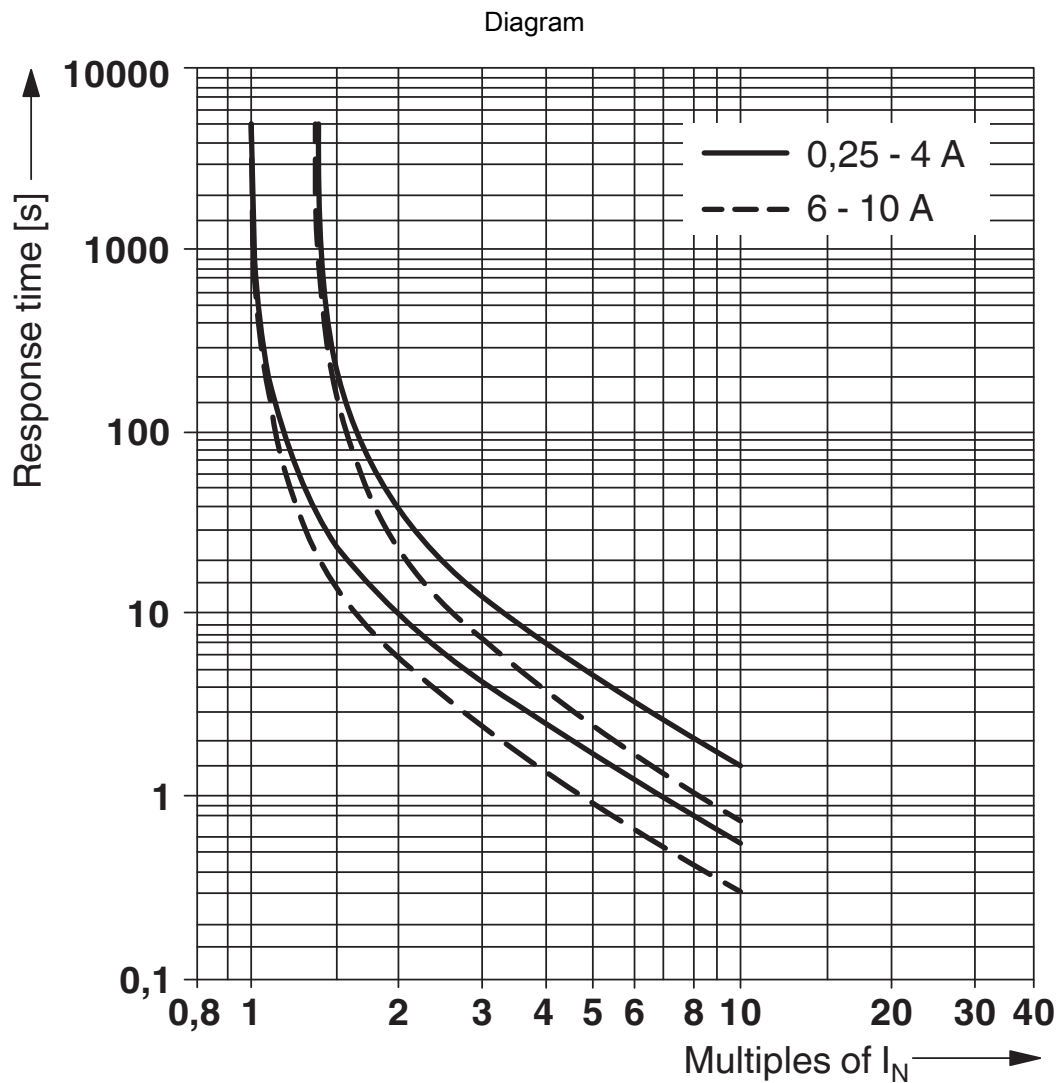


Application drawing



Application drawing





Trigger characteristic

# TCP 4A - Thermal device circuit breaker



0712259

<https://www.phoenixcontact.com/us/products/0712259>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0712259>

|                                                                                                                     |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>CSA</b><br>Approval ID: 074317 |                       |                       |                   |                             |
|                                                                                                                     | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                               |                       |                       |                   |                             |
|                                                                                                                     | 250 V                 | 4 A                   | -                 | -                           |

|                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|
|  <b>cUL Recognized</b><br>Approval ID: FILE E 140459 |
|---------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------|
|  <b>UL Recognized</b><br>Approval ID: FILE E 140459 |
|--------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40034332 |
|--------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------|
|  <b>CCC</b><br>Approval ID: 2025010307749780 |
|---------------------------------------------------------------------------------------------------------------------------------|

|                                             |
|---------------------------------------------|
| <b>UAE-RoHS</b><br>Approval ID: 23-10-88896 |
|---------------------------------------------|

# TCP 4A - Thermal device circuit breaker



0712259

<https://www.phoenixcontact.com/us/products/0712259>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# TCP 4A - Thermal device circuit breaker



0712259

<https://www.phoenixcontact.com/us/products/0712259>

## 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 |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)