

# TCP 4A - Thermal device circuit breaker



0712259

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

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Thermal miniature circuit breaker, pluggable in screw-type fuse terminal block UK 6-FSI/C and spring-cage fuse terminal block ST 4-FSI/C

## 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                            | 07                  |
| Product key                          | CLA111              |
| Catalog page                         | Page 401 (C-4-2019) |
| GTIN                                 | 4017918848385       |
| Weight per piece (including packing) | 11.575 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 $I_N$                             | 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)      |

### Connection data

|                   |           |
|-------------------|-----------|
| Nominal current   | 4 A       |
| Nominal voltage   | 250 V AC  |
|                   | 65 V DC   |
| Connection method | pluggable |

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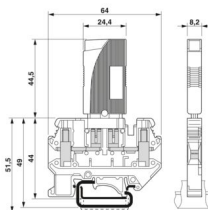


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## Dimensions

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 | V0               |
| 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 |
|---------------|-----------------|

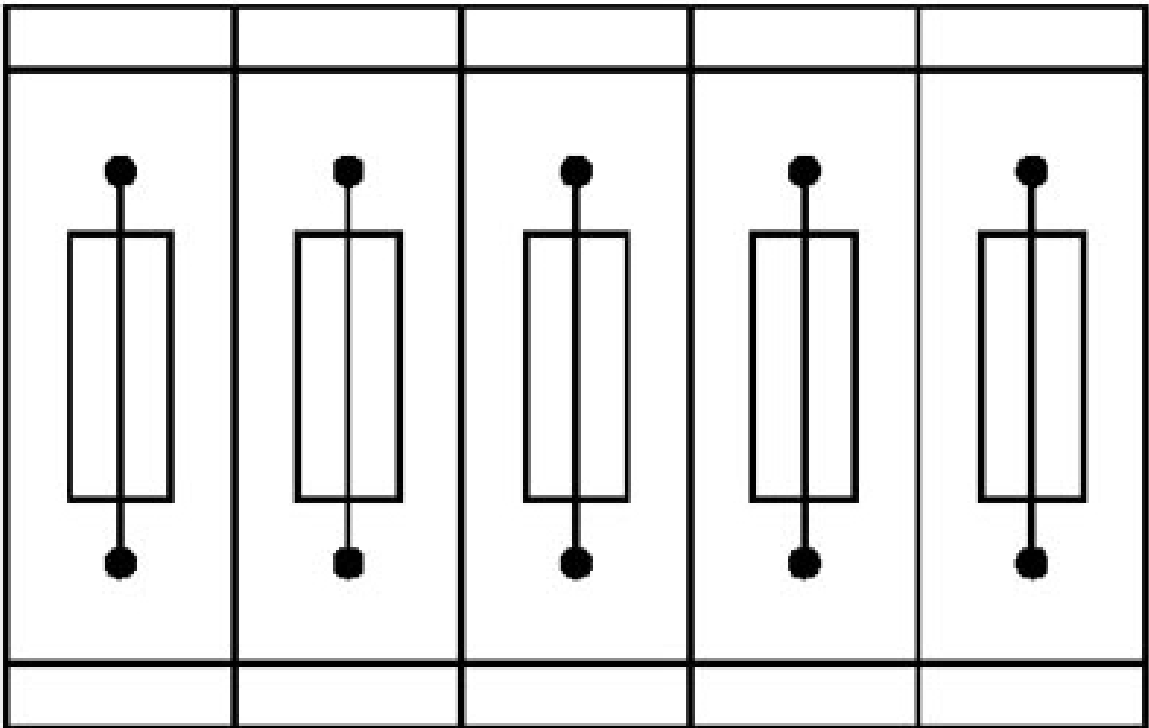
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## Drawings

Application drawing



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

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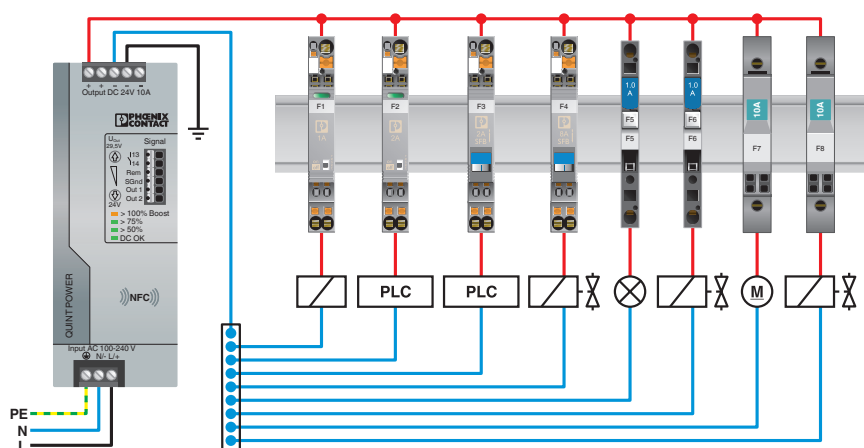


Product drawing



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

Application drawing



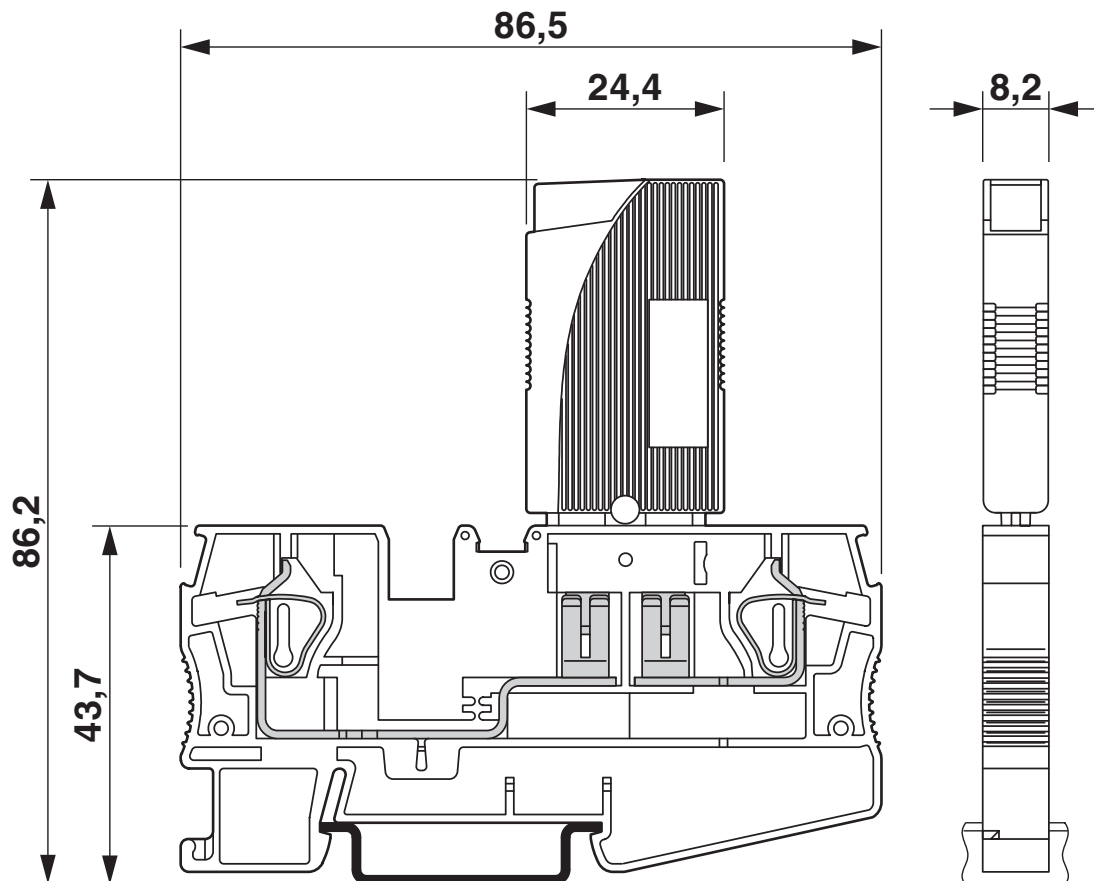
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Dimensional drawing



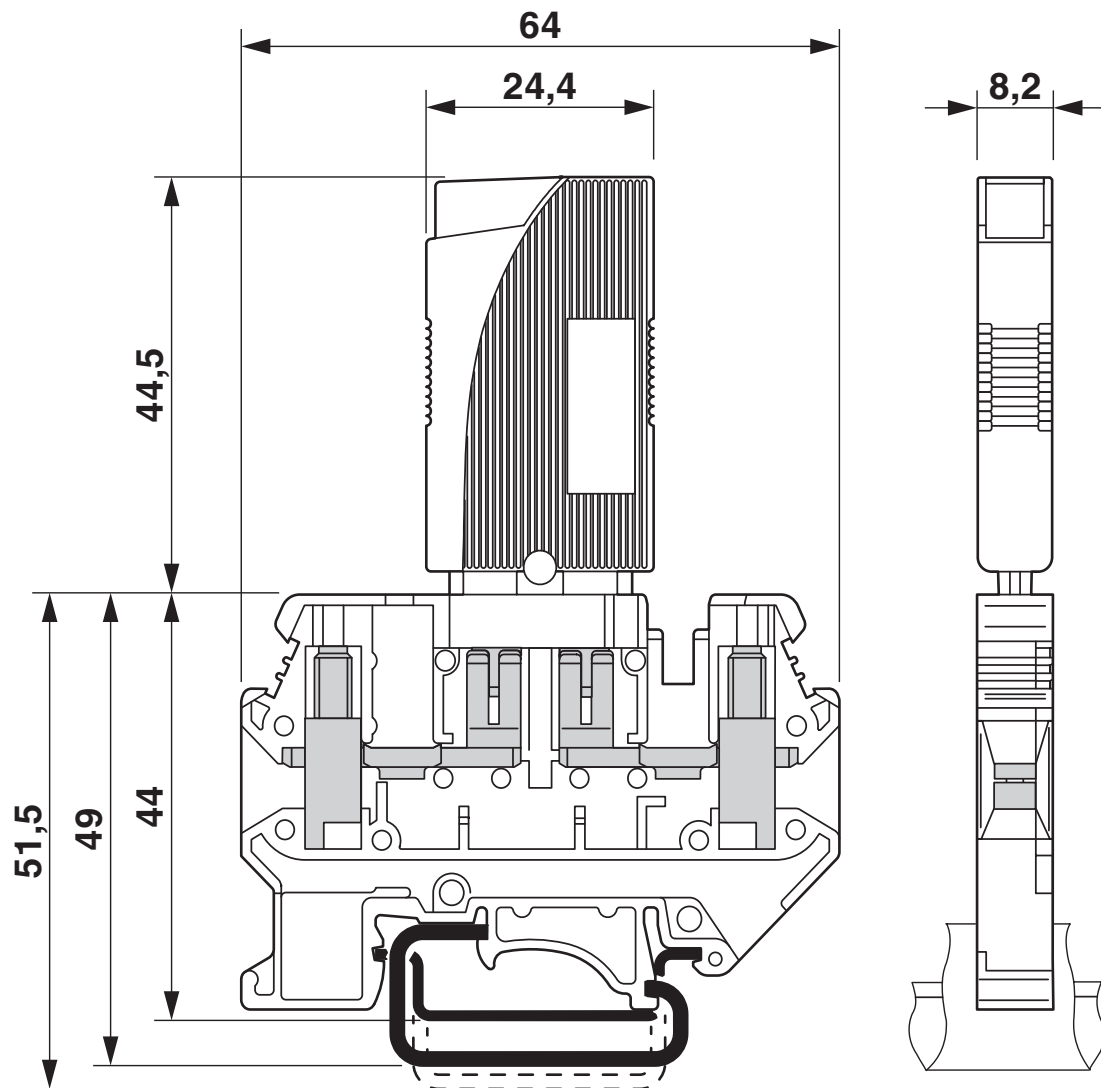
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Dimensional drawing



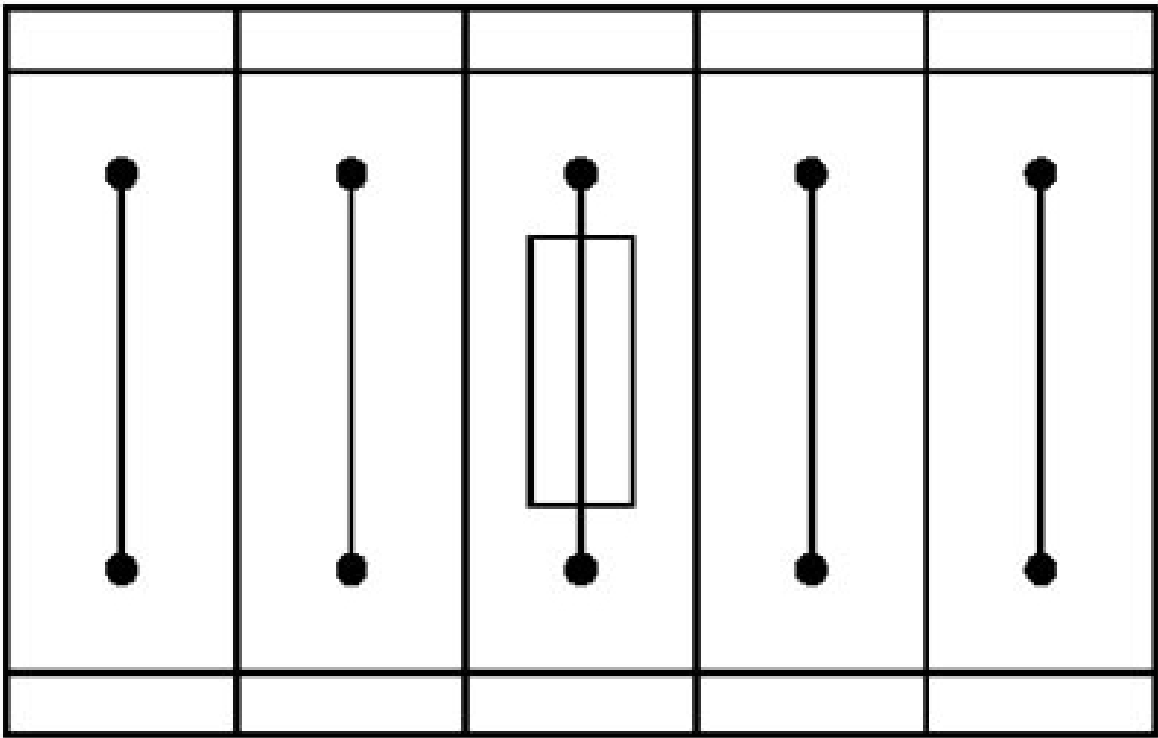
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Application drawing



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

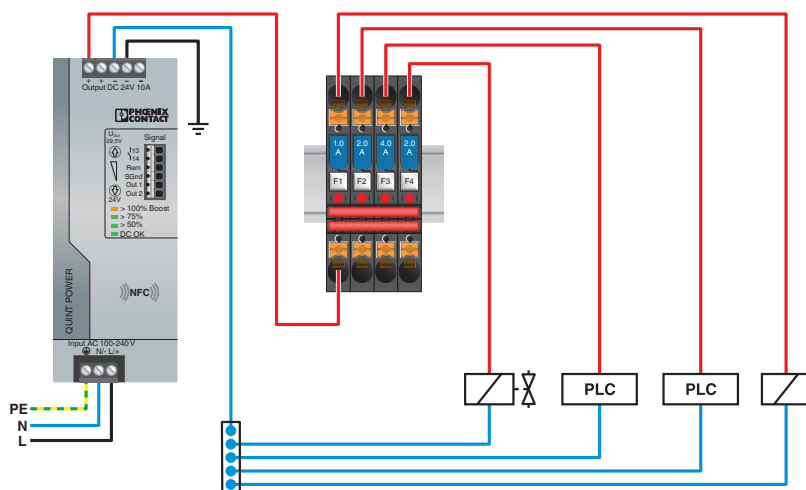
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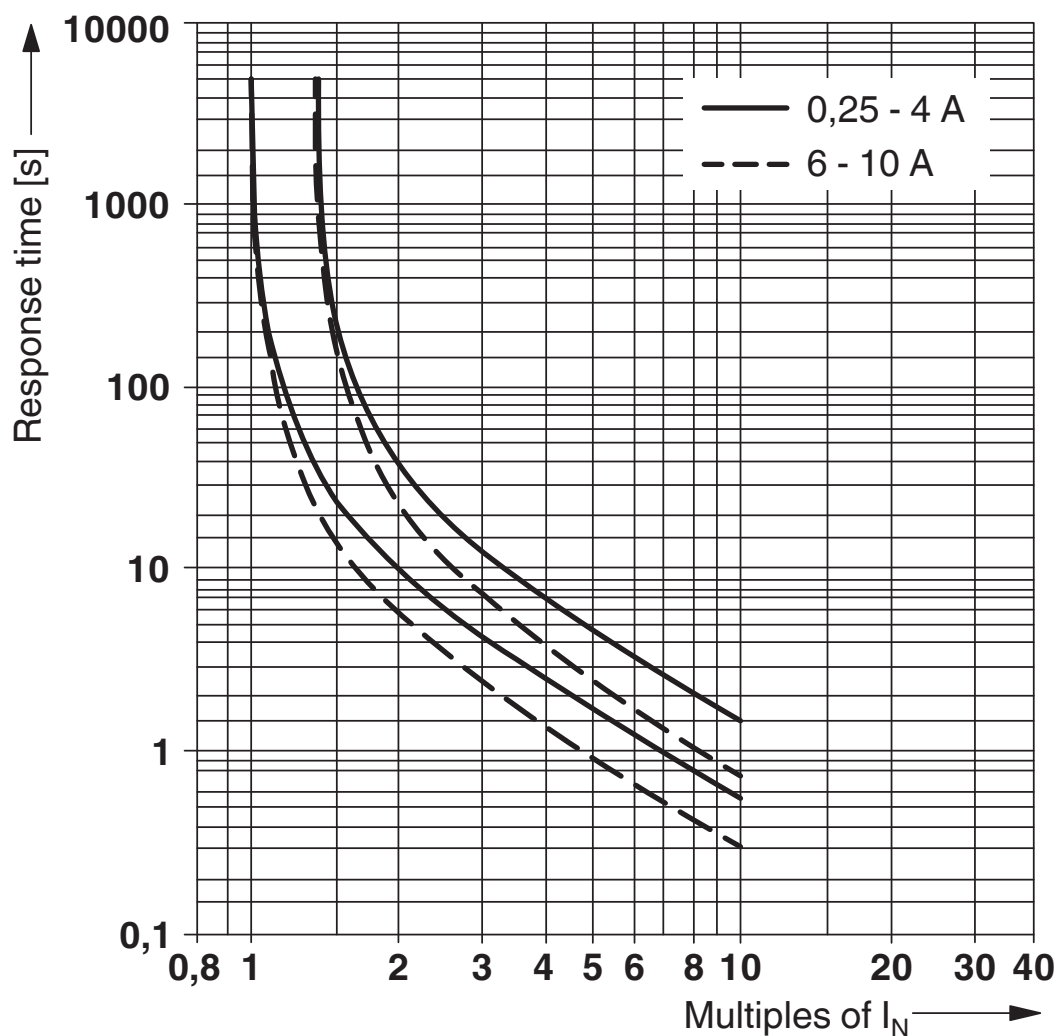
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Application drawing



Diagram



Trigger characteristic

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## Approvals

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

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

|  |                                                |
|--|------------------------------------------------|
|  | <b>EAC</b><br>Approval ID: RU C-DE.A*30.B01546 |
|--|------------------------------------------------|

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

|  |                                             |
|--|---------------------------------------------|
|  | <b>CCC</b><br>Approval ID: 2019010307241945 |
|--|---------------------------------------------|

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

|                         |
|-------------------------|
| <b>cULus Recognized</b> |
|-------------------------|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141116 |
| ECLASS-12.0 | 27141116 |
| ECLASS-13.0 | 27140401 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000899 |
|----------|----------|

### 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%               |

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PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstraße 8  
D-32825 Blomberg  
+49 (0) 5235-3 00  
[info@phoenixcontact.com](mailto:info@phoenixcontact.com)