# QTC 2,5-HESILED 24 (5X20) - Fuse modular terminal block

3050374

https://www.phoenixcontact.com/us/products/3050374

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 24 V, nominal current: 6.3 A, connection method: Quick connection, 1 level, Rated cross section: 1.5 $mm^2$, cross section:  0.5 $mm^2$- 2.5 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: black

## Your advantages

- An extremely compact design
- Test pick-off on both sides in the fuse lever
- Tested for railway applications

## Commercial data

| | |
|---|---|
| Item number | 3050374 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE03 |
| Product key | BE3134 |
| GTIN | 4046356056212 |
| Weight per piece (including packing) | 17.82 g |
| Weight per piece (excluding packing) | 16.2 g |
| Customs tariff number | 85369095 |
| Country of origin | CN |

## Technical data

### Notes

| | |
|---|---|
| General | The current is determined by the fuse used, the voltage by the selected LED.<br>If the fuse is faulty, the downstream circuit will not be disconnected. |

### Product properties

| | |
|---|---|
| Product type | Fuse terminal block |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| Number of connections | 2 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 3 |

### Electrical properties

| | |
|---|---|
| Fuse type | Glass / ceramics / ... |
| Rated surge voltage | 4 kV |
| Maximum power dissipation for nominal condition | 0.77 W |
| Fuse | G / 5 x 20 |
| LED voltage range | 12 V AC/DC ... 30 V AC/DC |
| LED current range | 0.31 mA ... 0.95 mA |
| Maximum power dissipation | max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload) |
| | max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload) |
| | max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit) |
| | max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit) |

### Input data

| | |
|---|---|
| LED voltage range | 12 V AC/DC ... 30 V AC/DC |

### Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Frequency of connections with the same cross section | 100.00 |
| Nominal cross section | 2.5 mm² |

1 level

| | |
|---|---|
| Connection method | Quick connection |

| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-3 |
| Conductor cross-section rigid | 0.5 mm² ... 2.5 mm² |
| Cross section AWG | 20 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm² ... 2.5 mm² |
| Conductor cross-section, flexible [AWG] | 20 ... 14 (converted acc. to IEC) |
| Nominal current | 6.3 A |
| Maximum load current | 6.3 A (the current is determined by the fuse used) |
| Nominal voltage | 24 V |
| Nominal cross section | 1.5 mm² |

## Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| End cover width | 2.2 mm |
| Height | 82.5 mm |
| Depth on NS 35/7,5 | 64.9 mm |
| Depth on NS 35/15 | 72.4 mm |

## Material specifications

| | |
|---|---|
| Color | black (RAL 9005) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 28 MJ/kg |
| Surface flammability NFPA 130 (ASTM E 162) | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |

## Cable/line

| | |
|---|---|
| Wire diameter incl. insulation | 3.8 mm |

## Mechanical properties

### Mechanical data

| | |
|---|---|
| Open side panel | Yes |

## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Standards and regulations

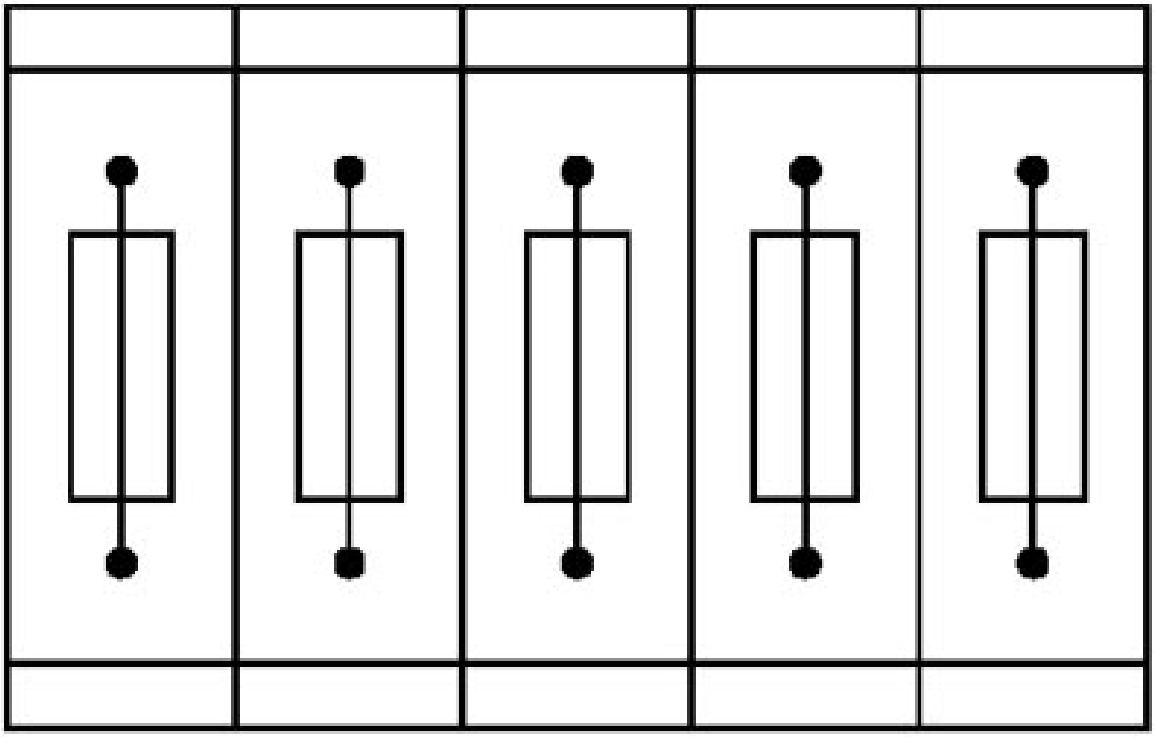
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-3 |

## Mounting

| | |
|---|---|
| Mounting type | NS 35/7,5 |
| | NS 35/15 |

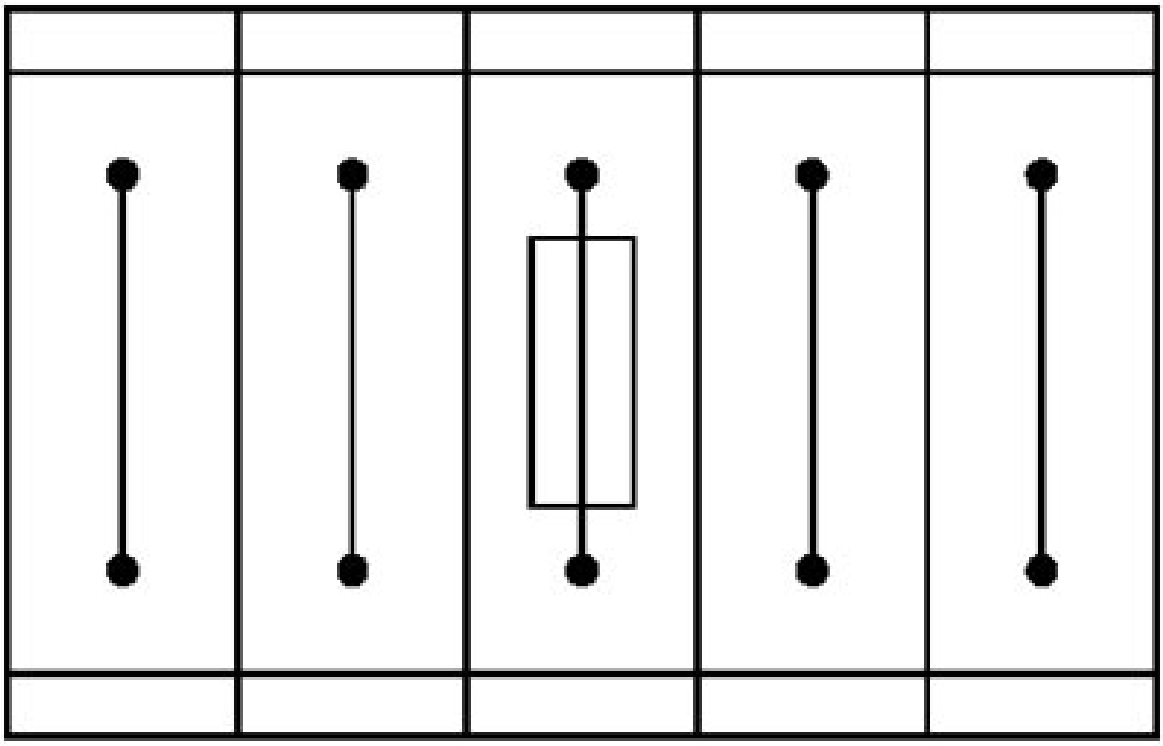
## Drawings

Application drawing



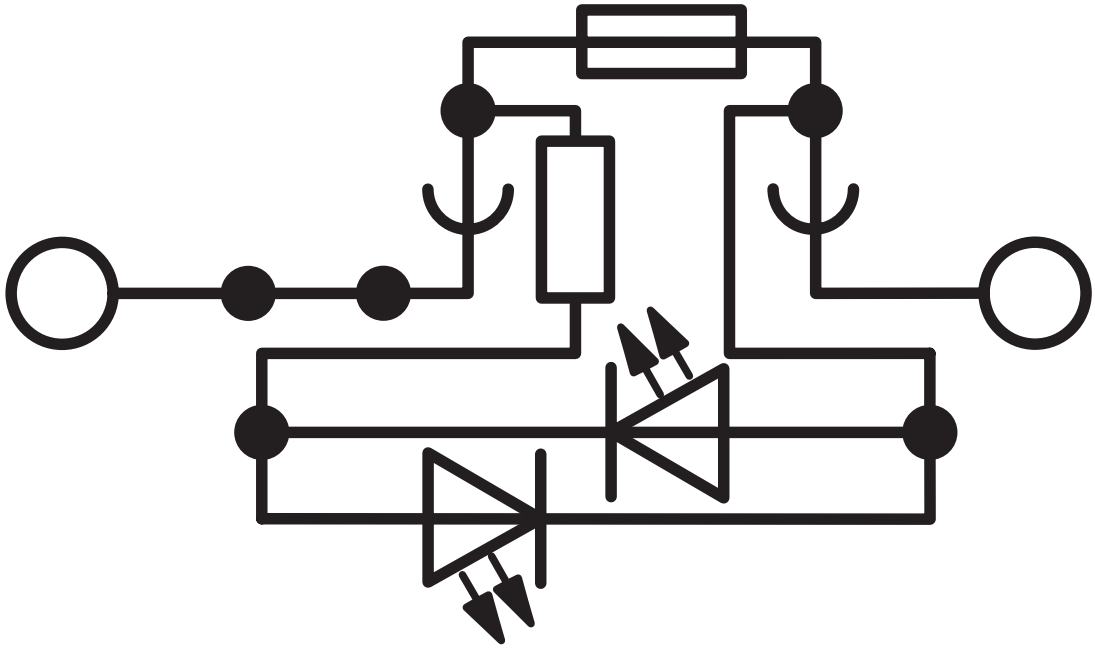
Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

Application drawing



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

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3050374

**CSA**
Approval ID: 2030668

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 10 A | 20 - 14 | - |
| C | | | | |
| | 300 V | 10 A | 20 - 14 | - |

**IECEE CB Scheme**
Approval ID: NL-65057

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 500 V | 6.3 A | - | 0.5 - 2.5 |

**EAC**
Approval ID: RU C-DE.BL08.B.00539

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 15 A | 20 - 14 | - |
| C | | | | |
| | 300 V | 15 A | 20 - 14 | - |

**KEMA-KEUR**
Approval ID: 71-113330

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 500 V | 6.3 A | - | 0.5 - 2.5 |

**NK**
Approval ID: 09 ME 139

**ABS**
Approval ID: 22-2196825-PDA

**DNV**
Approval ID: TAE000014H

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250113 |
| ECLASS-15.0 | 27250113 |

### ETIM

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

### UNSPSC

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

## 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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