# PT 4-HESILA 250 (5X20) - Fuse modular terminal block

3211907

https://www.phoenixcontact.com/us/products/3211907

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 250 V, nominal current: 6.3 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 4 $mm^2$, cross section: 0.2 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: black

## Your advantages

- The compact design and front connection enable wiring in a confined space<br/>
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- Tested for railway applications

## Commercial data

| | |
|---|---|
| Item number | 3211907 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE22 |
| Product key | BE2234 |
| GTIN | 4046356482523 |
| Weight per piece (including packing) | 13.264 g |
| Weight per piece (excluding packing) | 12.362 g |
| Customs tariff number | 85369095 |
| Country of origin | PL |

## 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. |

General

| | |
|---|---|
| Note | The current is determined by the fuse used, the voltage by the fuse or selected light indicator. |

### Product properties

| | |
|---|---|
| Product type | Fuse terminal block |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| Number of positions | 1 |
| 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 | 1.02 W |
| Fuse | G / 5 x 20 |
| LED voltage range | 110 V AC/DC ... 250 V AC/DC |
| LED current range | 0.41 mA ... 0.96 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 | 110 V AC/DC ... 250 V AC/DC |

### Connection data

| | |
|---|---|
| Number of connections per level | 2 |

| | |
|---|---|
| Nominal cross section | 4 mm² |
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-3 |
| Conductor cross-section rigid | 0.2 mm² ... 6 mm² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm² ... 4 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm² ... 4 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal current | 6.3 A |
| Maximum load current | 6.3 A (with 6 mm² conductor cross-section, rigid) |
| Nominal voltage | 250 V |
| Nominal cross section | 4 mm² |

Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross-section rigid | 0.5 mm² ... 6 mm² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.75 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 4 mm² |

## Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| End cover width | 2.2 mm |
| Height | 56 mm |
| Depth | 57.3 mm |
| Depth on NS 35/7,5 | 64.8 mm |
| Depth on NS 35/15 | 72.3 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 |
| 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 |
| 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 |

## Electrical tests

Surge voltage test

| | |
|---|---|
| Test voltage setpoint | 7.3 kV |
| Result | Test passed |

Temperature-rise test

| | |
|---|---|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 1.89 kV |
| Result | Test passed |

## Mechanical properties

Mechanical data

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

## Mechanical tests

Mechanical strength

| | |
|---|---|
| Result | Test passed |

Attachment on the carrier

| | |
|---|---|
| Result | Test passed |

Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 (+/- 2) rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.2 mm² / 0.2 kg |
| | 4 mm² / 0.9 kg |
| | 6 mm² / 1.4 kg |
| Result | Test passed |

## Environmental and real-life conditions

Aging

| | |
|---|---|
| Temperature cycles | 192 |
| Result | Test passed |

Needle-flame test

| | |
|---|---|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 (m/s²)²/Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Result | Test passed |

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

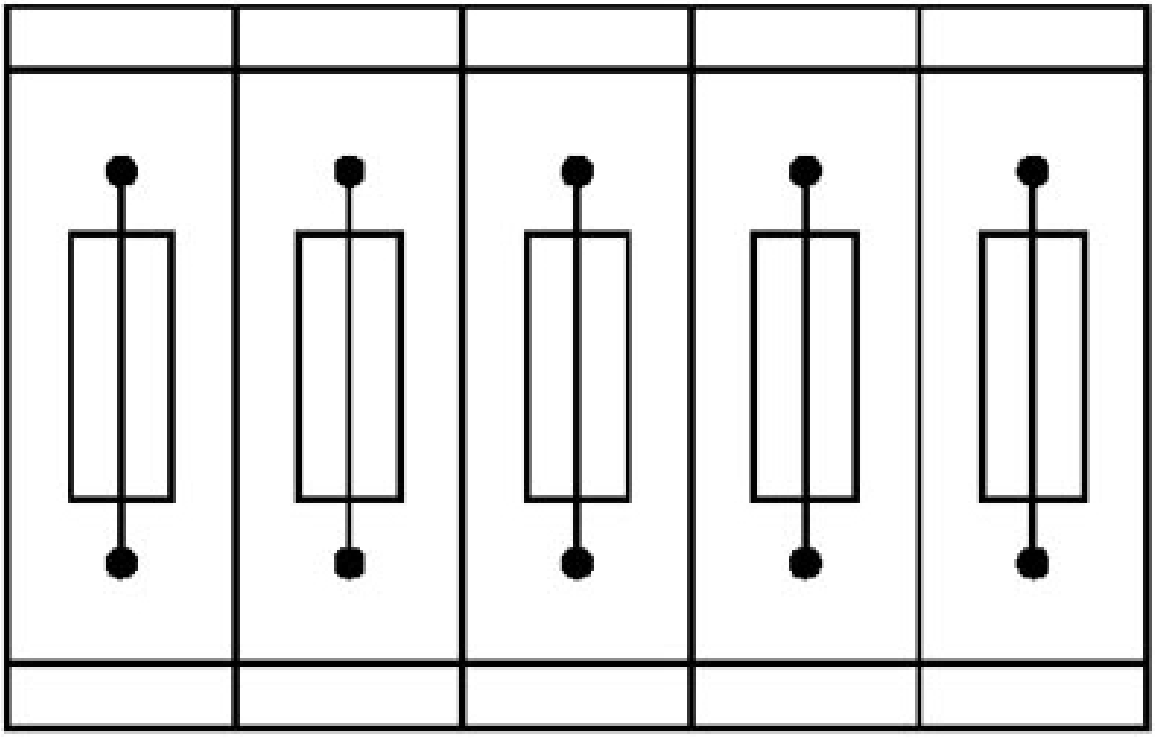
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-3 |

## Mounting

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

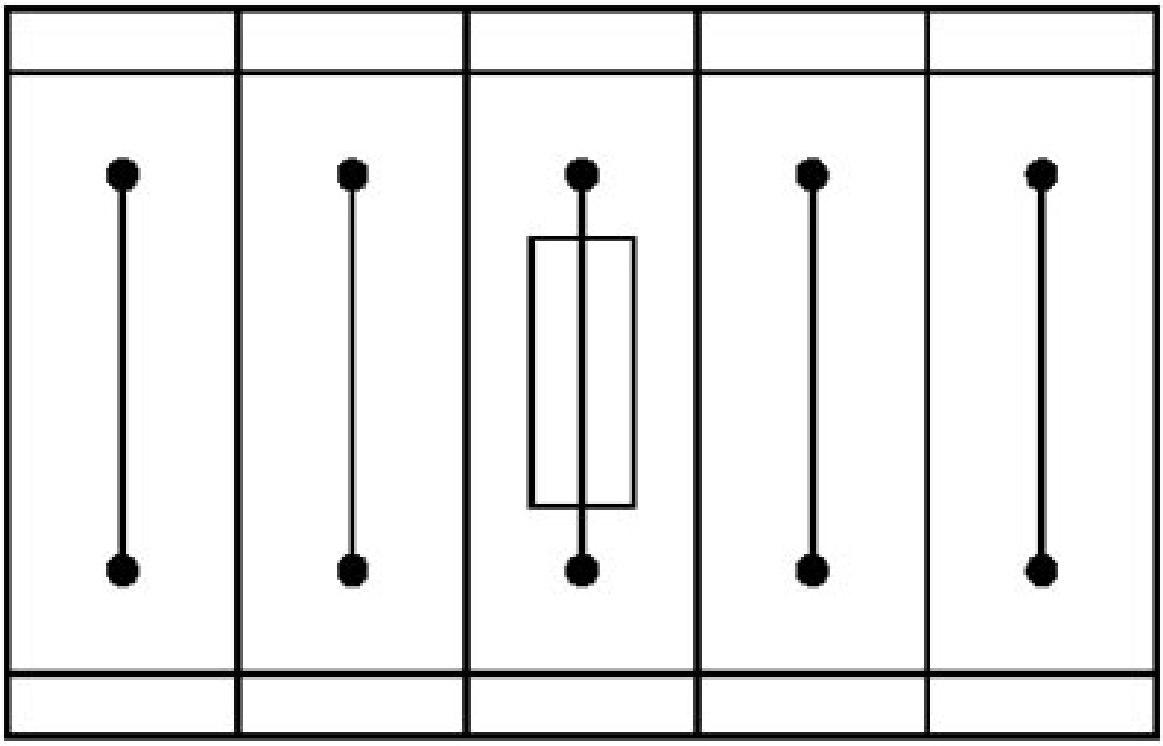
## Drawings

Application drawing



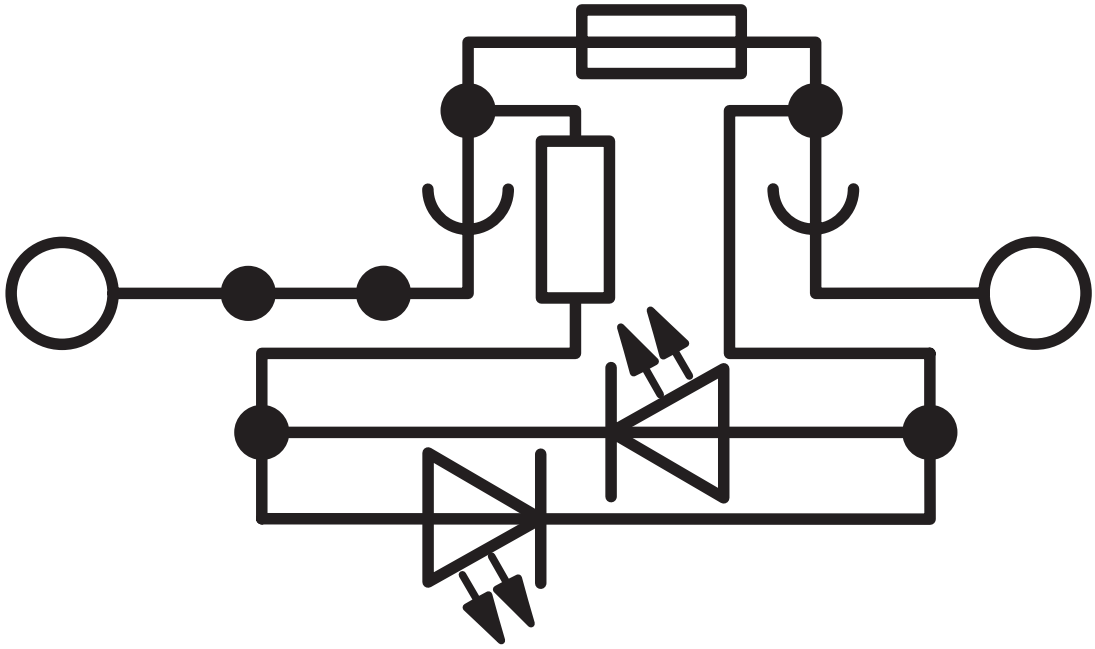
Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

Application drawing



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

Circuit diagram



## Approvals

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**DNV**
Approval ID: TAE000010T

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 6.3 A | 24 - 10 | - |
| C | | | | |
| | 300 V | 6.3 A | 24 - 10 | - |

**EAC**
Approval ID: RU C-DE.BL08.B.00644

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 6.3 A | 24 - 10 | - |
| C | | | | |
| | 300 V | 6.3 A | 24 - 10 | - |
| F | | | | |
| | 400 V | 6.3 A | 24 - 10 | - |

**LR**
Approval ID: LR2371832TA

**NK**
Approval ID: 14ME0912

## 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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