# UT 4-PE/L/HESILED 24 (5X20) 120KOHM - Fuse modular terminal block

3214321

https://www.phoenixcontact.com/us/products/3214321

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 24 V, Thermal continuous current $I_{th}$: 30 A, connection method: Screw connection, Rated cross section: 4 $mm^2$, cross section: 0.14 $mm^2$- 6 $mm^2$, connection method: Screw connection, Rated cross section: 4 $mm^2$, cross section: 0.14 $mm^2$- 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: black

## Commercial data

| | |
|---|---|
| Item number | 3214321 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE01 |
| Product key | BE1136 |
| GTIN | 4046356895163 |
| Weight per piece (including packing) | 36.696 g |
| Weight per piece (excluding packing) | 36.696 g |
| Customs tariff number | 85369095 |
| Country of origin | PL |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Fuse-link not supplied as standard |
| 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 | Ground terminal block |
| Product family | UT |
| Number of connections | 5 |
| Number of rows | 3 |
| Potentials | 3 |

Insulation characteristics

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

### Electrical properties

| | |
|---|---|
| Fuse type | Glass / ceramics / ... |
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.02 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

| | |
|---|---|
| Grounding foot | Yes |
| Number of connections per level | 2 |
| Nominal cross section | 4 mm² |

Level 1

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M3 |
| Note | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 9 mm |
| Internal cylindrical gage | A4 |
| | B3 |
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-2 |
| Conductor cross-section rigid | 0.14 mm² ... 6 mm² |
| Cross section AWG | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 26 ... 10 (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) | 0.14 mm² ... 4 mm² |
| 2 conductors with same cross section, rigid | 0.14 mm² ... 1.5 mm² |
| 2 conductors with same cross section, flexible | 0.14 mm² ... 1.5 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.14 mm² ... 1.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1.5 mm² |
| Nominal cross section | 4 mm² |
| Thermal continuous current $I_{th}$ | 30 A |
| Maximum load current | 36 A (with 6 mm² conductor cross-section) |
| Nominal voltage | 24 V (the voltage is determined by the light indicator.) |

Level 2

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 9 mm |
| Internal cylindrical gage | A4 |
| | B3 |
| Connection in acc. with standard | IEC 60947-7-3 |
| Conductor cross-section rigid | 0.14 mm² ... 6 mm² |
| Cross section AWG | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 26 ... 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) | 0.14 mm² ... 4 mm² |
| 2 conductors with same cross section, rigid | 0.14 mm² ... 1.5 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.14 mm² ... 1.5 mm² |

| | |
|---|---|
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1.5 mm² |
| Nominal cross section | 4 mm² |
| Nominal current | 6.3 A |
| Maximum load current | 6.3 A (the current is determined by the fuse used) |
| Nominal voltage | 24 V (the voltage is determined by the fuse used) |

## Ex data

Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | Ⓔx II 3 G Ex ec IIC Gc |
| Operating temperature range | -60 °C ... 130 °C |
| Ex-certified accessories | 1205053 SZS 0,6X3,5 |
| | 3022276 CLIPFIX 35-5 |
| | 3022218 CLIPFIX 35 |
| output | (Permanent) |

Ex connection data General

| | |
|---|---|
| Torque range | 0.6 Nm ... 0.8 Nm |
| Nominal cross section | 4 mm² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.14 mm² ... 6 mm² |
| Connection capacity AWG | 26 ... 10 |
| Connection capacity flexible | 0.14 mm² ... 6 mm² |
| Connection capacity AWG | 26 ... 10 |
| 2 conductors with same cross section, solid | 0.14 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG rigid | 26 ... 16 |
| 2 conductors with same cross section, stranded | 0.14 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG flexible | 26 ... 16 |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 0.14 mm² |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 4 mm² |
| Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG | 26 ... 12 |
| output | (Permanent) |

Ex level Level 2

| | |
|---|---|
| Rated voltage | 500 V |
| Rated current | 20 A (4 mm²) |
| Maximum load current | 20 A (6 mm²) |
| Contact resistance | 0.6 mΩ |
| Temperature increase | 40 K (20 A/4 mm²) |
| output | (Permanent) |

Ex level Level 3

| | |
|---|---|
| Rated voltage | 250 V |
| Rated current | 6.3 A (4 mm²) |
| Maximum load current | 6.3 A (6 mm²) |
| Contact resistance | 5 mΩ |

## Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Height | 92.7 mm |
| Depth | 94.5 mm |
| Depth on NS 35/7,5 | 88.9 mm |
| Depth on NS 35/15 | 96.4 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 |
| 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 |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Open side panel | No |

## Environmental and real-life conditions

Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 150 Hz |
| ASD level | 0.964 (m/s²)²/Hz |
| Acceleration | 0.58g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 5g |
| Shock duration | 30 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

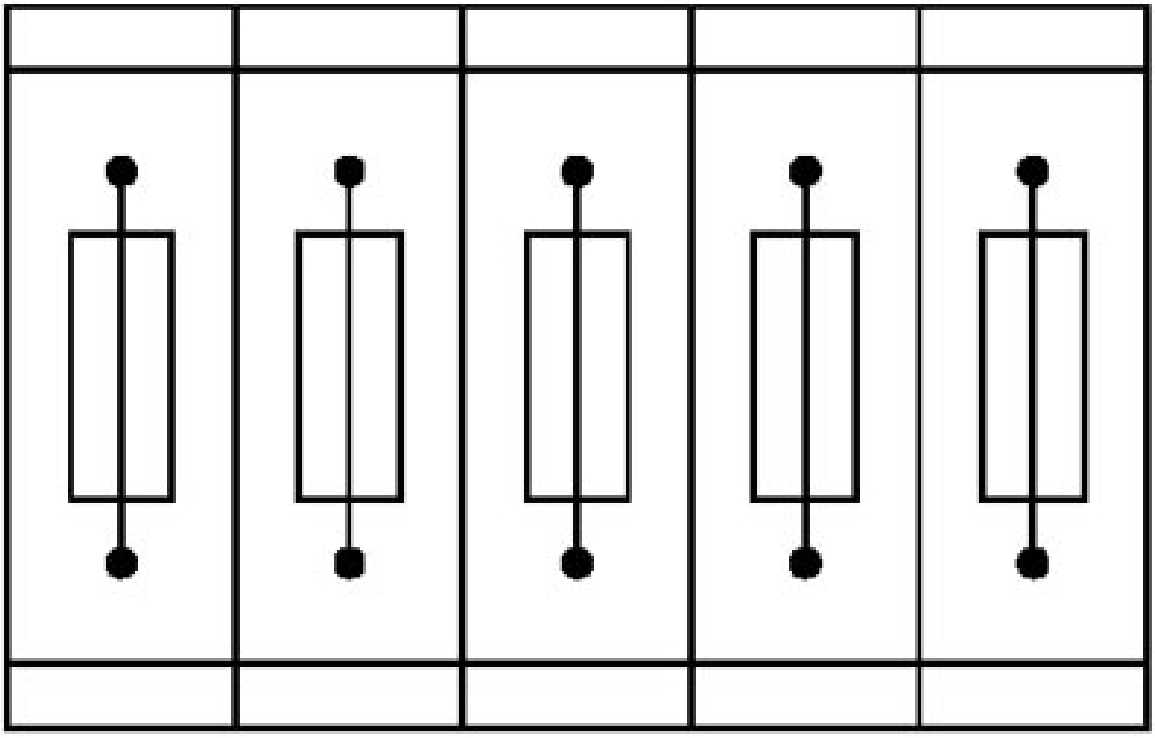
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-2 |
| | IEC 60947-7-3 |

## Mounting

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

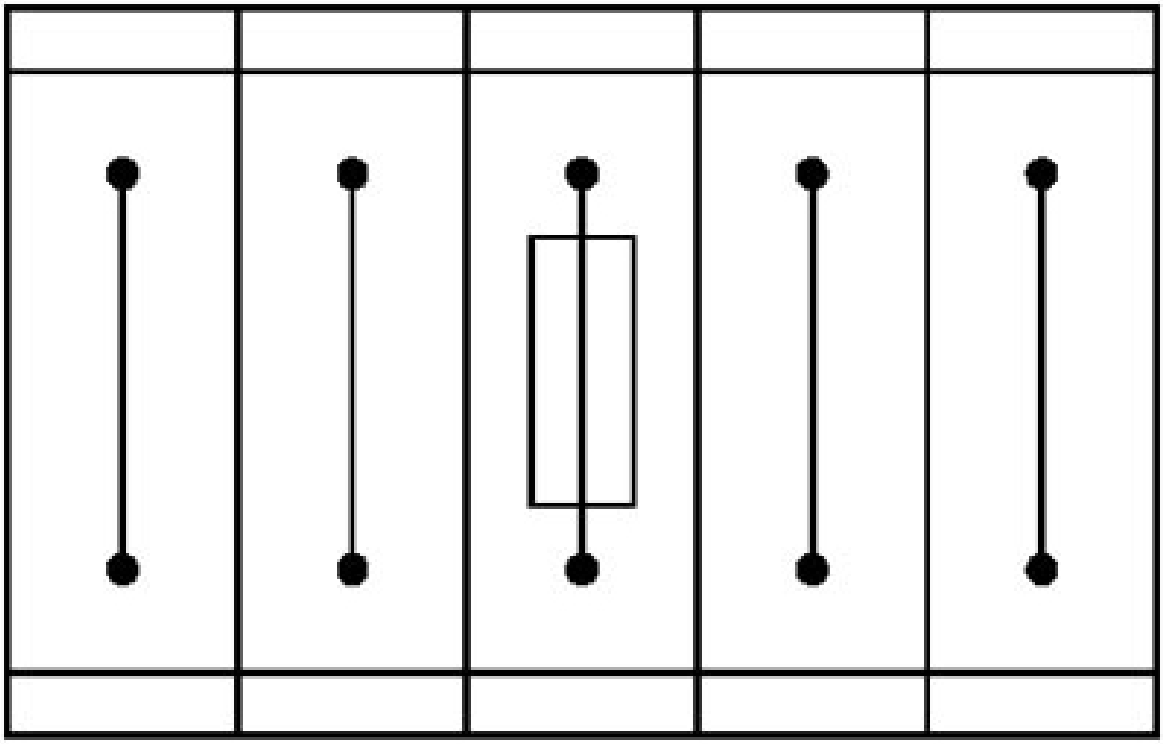
## Drawings

Application drawing



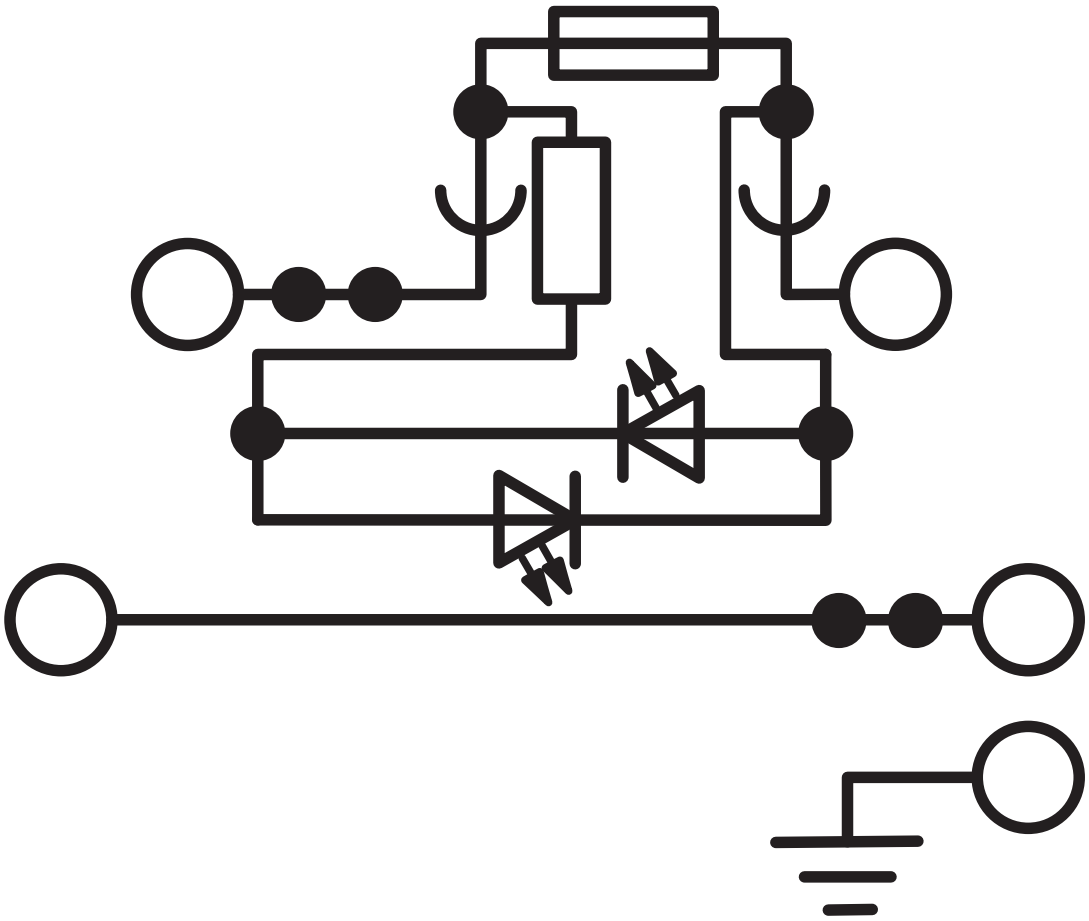
Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

Application drawing



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

Circuit diagram



## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000899 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | ac5e5ee6-992c-4ede-bb69-ab8e13951f38 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.252 kg CO2e |


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