

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



3046100

<https://www.phoenixcontact.com/us/products/3046100>

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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, connection method: Screw connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup>- 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black

## Your advantages

- Globally recognized: Internationally proven screw connection
- Maintenance-free and vibration-resistant thanks to the patented Reakdyn principle
- Easy integration and replacement of fuses with the lever element
- Easy checking of the fuses with optical signal unit
- Long-term stable connections with the use of high-quality materials
- Long-term stable connections with the use of high-quality materials
- Maximum efficiency in the smallest space - thanks to integrated level bridging, the connections are connected across levels

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3046100       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1134        |
| GTIN                                 | 4017918960957 |
| Weight per piece (including packing) | 17.12 g       |
| Weight per piece (excluding packing) | 16.485 g      |
| Customs tariff number                | 85369095      |
| Country of origin                    | DE            |

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## 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          | Fuse terminal block |
| Product family        | UT                  |
| 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 | 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 mm <sup>2</sup> |
| Connection method               | Screw connection  |

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|   |  |
|---|--|
| Screw thread  | M3   |
| Tightening torque   | 0.6 ... 0.8 Nm                                     |
| Stripping length  | 9 mm   |
| Internal cylindrical gage   | A4   |
| Connection in acc. with standard  | IEC 60947-7-3                                      |
| Conductor cross-section rigid   | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>         |
| Cross section AWG   | 26 ... 10 (converted acc. to IEC)                  |
| Conductor cross-section flexible  | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>         |
| Conductor cross-section, flexible [AWG]   | 26 ... 10 (converted acc. to IEC)                  |
| Conductor cross-section flexible ultrasound-compressed                                    | 0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup>         |
| Conductor cross-section, flexible [AWG] ultrasound-compressed                             | 22 ... 10 (converted acc. to IEC)                  |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>         |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>         |
| 2 conductors with same cross section, rigid   | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>       |
| 2 conductors with same cross section, flexible  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>       |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>       |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>        |
| Nominal cross section   | 4 mm <sup>2</sup>                                  |
| Nominal current   | 6.3 A  |
| Maximum load current  | 6.3 A (the current is determined by the fuse used) |
| Nominal voltage   | 250 V  |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| Height             | 57.8 mm |
| Depth on NS 35/7,5 | 75.6 mm |
| Depth on NS 35/15  | 83.1 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)) | 125 °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)                        | 27,5 MJ/kg       |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed           |

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

### 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  |

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## Drawings

### Application drawing



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

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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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Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3046100>

**DNV**

Approval ID: TAE00001S9



**CSA**

Approval ID: 13631



**IECEE CB Scheme**

Approval ID: NL-65056

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine |                       |                       |                   |                      |
|       | 500 V                 | 6.3 A                 | -                 | 0.14 - 4             |



**EAC**

Approval ID: KZ7500651131219505



**cULus Recognized**

Approval ID: E60425

|                            | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|----------------------------|-----------------------|-----------------------|-------------------|----------------------|
| B                          |                       |                       |                   |                      |
|                            | 600 V                 | 10 A                  | 26 - 10           | -                    |
| Multi-conductor connection | 600 V                 | 10 A                  | 26 - 14           | -                    |
| C                          |                       |                       |                   |                      |
|                            | 600 V                 | 10 A                  | 26 - 10           | -                    |
| Multi-conductor connection | 600 V                 | 10 A                  | 26 - 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                 | -                 | 0.14 - 4             |



**LR**

Approval ID: LR24100022TA

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**CSA**

Approval ID: 13631



**CSA**

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**CSA**

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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                                | 0f6f1c86-177a-4bd2-925f-30e3ae33b477 |

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