

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



3046032

<https://www.phoenixcontact.com/us/products/3046032>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 500 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 integrated test pick-offs
- 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                          | 3046032       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1134        |
| GTIN                                 | 4017918956578 |
| Weight per piece (including packing) | 16.86 g       |
| Weight per piece (excluding packing) | 16.168 g      |
| Customs tariff number                | 85369095      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |                                    |
|--------------------|------------------------------------|
| Order information: | Fuse-link not supplied as standard |
|--------------------|------------------------------------|

### 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                             | 6 kV                                                                                                         |
| Maximum power dissipation for nominal condition | 1.02 W                                                                                                       |
| Fuse                                            | G / 5 x 20                                                                                                   |
| 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) |

### Connection data

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| Number of connections per level  | 2                                          |
| Nominal cross section            | 4 mm <sup>2</sup>                          |
| Connection method                | Screw connection                           |
| 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> |

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|                                                                                           |                                                                       |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 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                                                                           | 500 V (The voltage is determined by the fuse or selected LED display) |

## 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           |
| 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 |

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## Temperature-rise test

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Requirement temperature-rise test | Increase in temperature $\leq 45$ 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 | No |
|-----------------|----|

## 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 | 0.14 mm <sup>2</sup> / 0.2 kg |
|                                | 4 mm <sup>2</sup> / 0.9 kg    |
|                                | 6 mm <sup>2</sup> / 1.4 kg    |
| Result                         | Test passed                   |

## Environmental and real-life conditions

### Needle-flame test

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

### 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              | 1.857 (m/s <sup>2</sup> ) <sup>2</sup> /Hz       |
| Acceleration           | 0.8g                                             |
| 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 |
|---------------|-------------------------------------|

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|                                |                                   |
|--------------------------------|-----------------------------------|
| Pulse shape                    | Semi-sinusoidal                   |
| 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 60947-7-3 |
|----------------------------------|---------------|

## 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

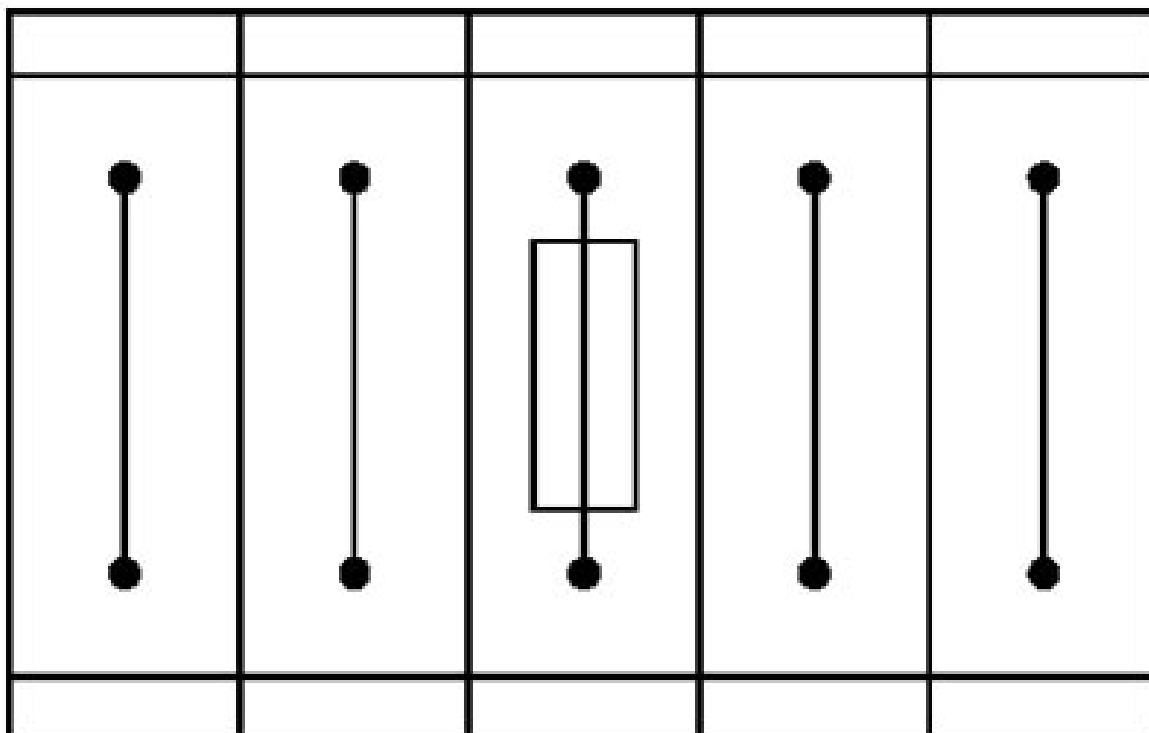
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Application drawing



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/3046032>

**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

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



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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                                | 8647fab7-370d-40c0-a0c1-f862e400409c |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.188 kg CO2e |
|---------|---------------|

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