

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

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

Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3046032             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE01                |
| Product key                          | BE1134              |
| Catalog page                         | Page 161 (C-1-2019) |
| GTIN                                 | 4017918956578       |
| Weight per piece (including packing) | 16.94 g             |
| Weight per piece (excluding packing) | 16.168 g            |
| Customs tariff number                | 85369095            |
| Country of origin                    | DE                  |

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



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## Technical data

### 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                   |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 14 |
|------------------|----|

### 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>                          |
| 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 (ferrule without plastic sleeve) | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup> |

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|                                                                                           |                                                                       |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.14 mm² ... 4 mm²                                                    |
| 2 conductors with same cross section, solid                                               | 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 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) |
| Nominal cross section                                                                     | 4 mm²                                                                 |

## 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 |

### Temperature-rise test

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

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|        |             |
|--------|-------------|
| 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               | Service life test category 1, class B, body mounted |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$      |
| 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 |
| Pulse shape    | Semi-sinusoidal                     |
| Acceleration   | 5g                                  |
| Shock duration | 30 ms                               |

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

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

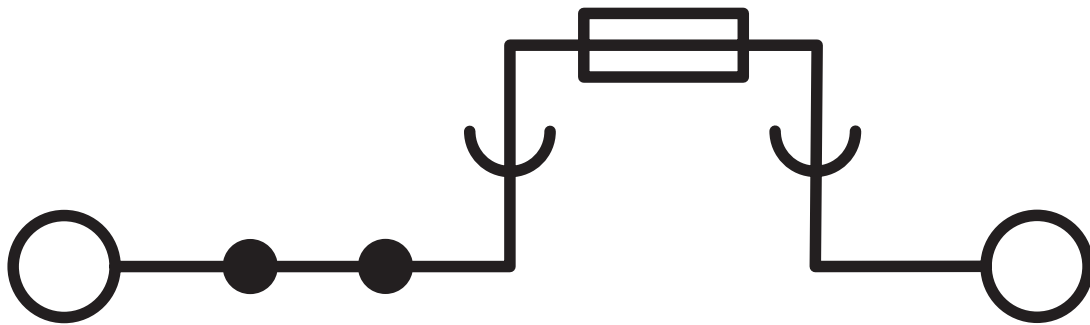


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## Drawings

Circuit diagram



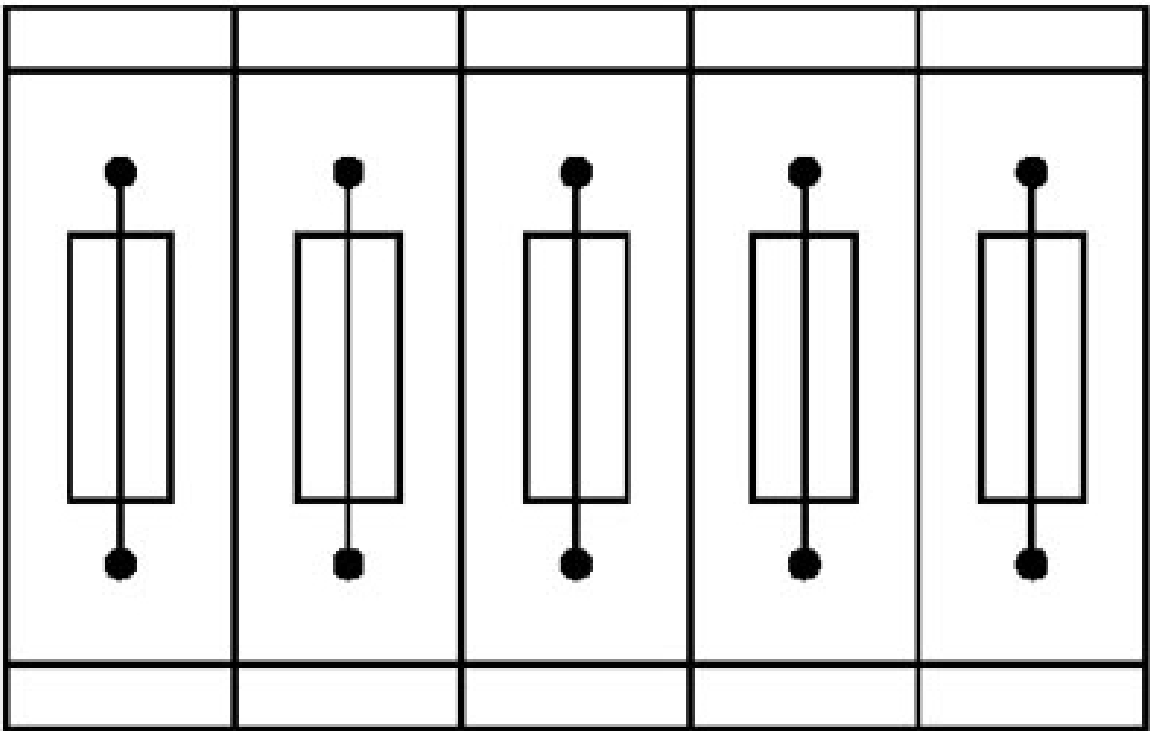
UT 4-HESI (5X20) - Fuse modular terminal block



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Application drawing



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

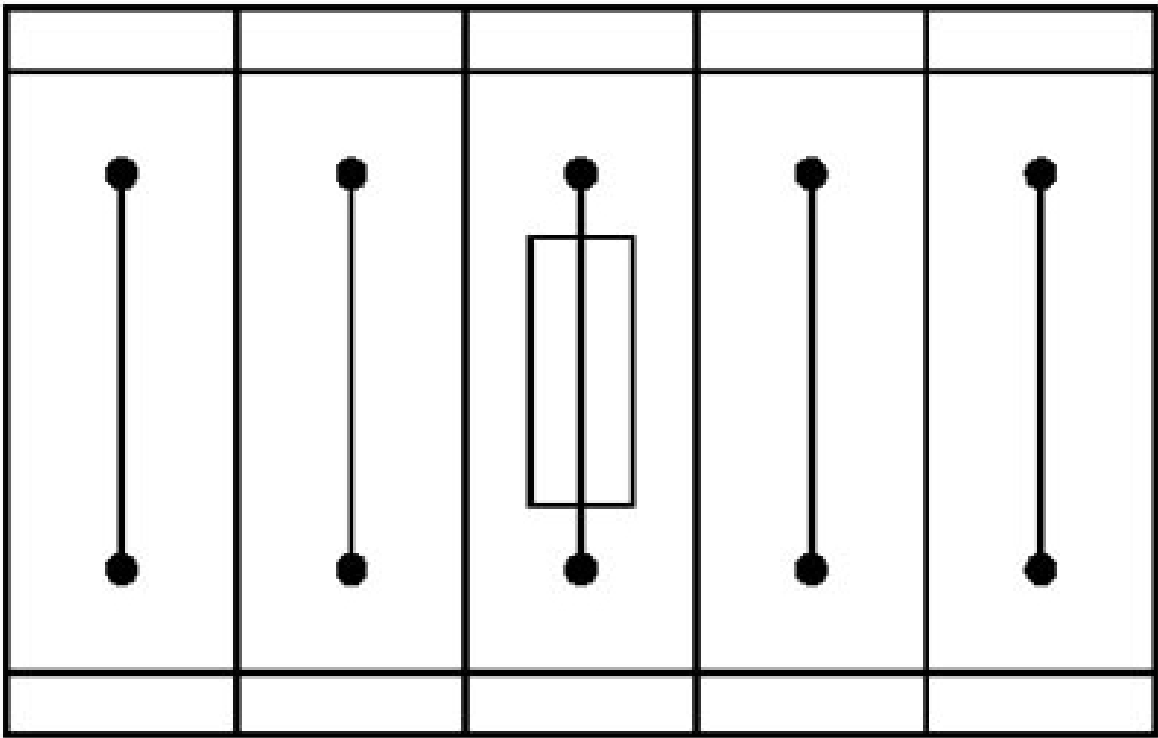
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Application drawing



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

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



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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

|             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B |                       |                       |                   |                             |
|             | 600 V                 | 6.3 A                 | 26 - 10           | -                           |
| Use group C |                       |                       |                   |                             |
|             | 600 V                 | 6.3 A                 | 26 - 10           | -                           |



### IECEE CB Scheme

Approval ID: NL-65056

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



### EAC

Approval ID: RU C-DE.BL08.B.00534



### cULus Recognized

Approval ID: E60425

|                            | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|----------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B                |                       |                       |                   |                             |
|                            | 600 V                 | 10 A                  | 26 - 10           | -                           |
| Multi-conductor connection | 600 V                 | 10 A                  | 26 - 14           | -                           |
| Use group 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 $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 500 V                 | 6.3 A                 | -                 | 0.14 - 4                    |

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



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LR

Approval ID: LR24100022TA

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



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141116 |
| ECLASS-12.0 | 27141116 |
| ECLASS-13.0 | 27250113 |

### ETIM

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

### UNSPSC

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

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



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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                                                                                                                                                                                              |
| EF3.0 Climate Change                    |                                                                                                                                                                                                                                   |
| CO2e kg                                 | 0.102 kg CO2e                                                                                                                                                                                                                     |

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