

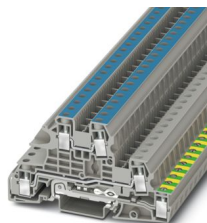
# UTI 6-PE/L/N - Installation protective conductor terminal block



3076041

<https://www.phoenixcontact.com/us/products/3076041>

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Installation protective conductor terminal block, nom. voltage: 400 V, nominal current: 38 A, Screw connection, 1st, 2nd and 3rd level, Rated cross section: 6 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- The installation terminal block features a particularly low-profile design and is suitable for wiring in flat installation distributors

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3076041       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1153        |
| GTIN                                 | 4046356817639 |
| Weight per piece (including packing) | 35.62 g       |
| Weight per piece (excluding packing) | 35.62 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Installation terminal block |
| Number of connections | 5                           |
| Number of rows        | 3                           |
| Potentials            | 2                           |

### Insulation characteristics

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

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 1.31 W |

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Grounding foot                  | Yes               |
| Number of connections per level | 2                 |
| Nominal cross section           | 6 mm <sup>2</sup> |

### 1st, 2nd and 3rd level

|   |  |
|---|--|
| Connection method   | Screw connection   |
| Screw thread  | M3   |
| Note  | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque   | 0.5 ... 0.6 Nm   |
| Stripping length  | 9 mm   |
| Internal cylindrical gage   | A5   |
| Conductor cross-section rigid   | 0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup>                     |
| Cross section AWG   | 24 ... 8 (converted acc. to IEC)                               |
| Conductor cross-section flexible  | 0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup>                     |
| Conductor cross-section, flexible [AWG]   | 24 ... 8 (converted acc. to IEC)                               |
| Conductor cross-section flexible (ferrule without plastic sleeve)                   | 0.25 mm <sup>2</sup> ... 6 mm <sup>2</sup>                     |
| Flexible conductor cross-section (ferrule with plastic sleeve)                      | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |
| 2 conductors with same cross section, rigid   | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                    |
| 2 conductors with same cross section, flexible                                      | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                    |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                   |
| Nominal cross section   | 6 mm <sup>2</sup>  |
| Nominal current   | 38 A (with 6 mm <sup>2</sup> conductor cross-section)          |
| Maximum load current  | 47 A (with 10 mm <sup>2</sup> conductor cross-section)         |
| Nominal voltage   | 400 V (phase conductor/phase conductor)                        |
|   | 250 V (phase conductor/PE)                                     |
|   | 250 V (phase conductor/N)                                      |

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## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 8.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 95 mm   |
| Depth on NS 35/7,5 | 51.5 mm |
| Depth on NS 35/15  | 59 mm   |

## Material specifications

|  |                 |
|--|-----------------|
| Color  | gray (RAL 7042) |
| 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 $\leq$ 45 K |
| Result   | Test passed                         |
| Short-time withstand current 6 mm <sup>2</sup> | 0.72 kA                             |
|  | 0.72 kA                             |
| Result   | Test passed                         |

### Power-frequency withstand voltage

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

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

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

## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                               |
|--------------------------------|-------------------------------|
| Rotation speed                 | 10 (+/- 2) rpm                |
| Revolutions                    | 135                           |
| Conductor cross-section/weight | 0.25 mm <sup>2</sup> / 0.2 kg |
|                                | 6 mm <sup>2</sup> / 1.4 kg    |
|                                | 10 mm <sup>2</sup> / 2 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):2022-06            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz      |
| Acceleration           | 3.12g  |
| Test duration per axis | 5 h  |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| 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  |
| Permissible humidity (operation)         | 20 % ... 90 %  |
| Permissible humidity (storage/transport) | 30 % ... 70 %  |

## Mounting

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

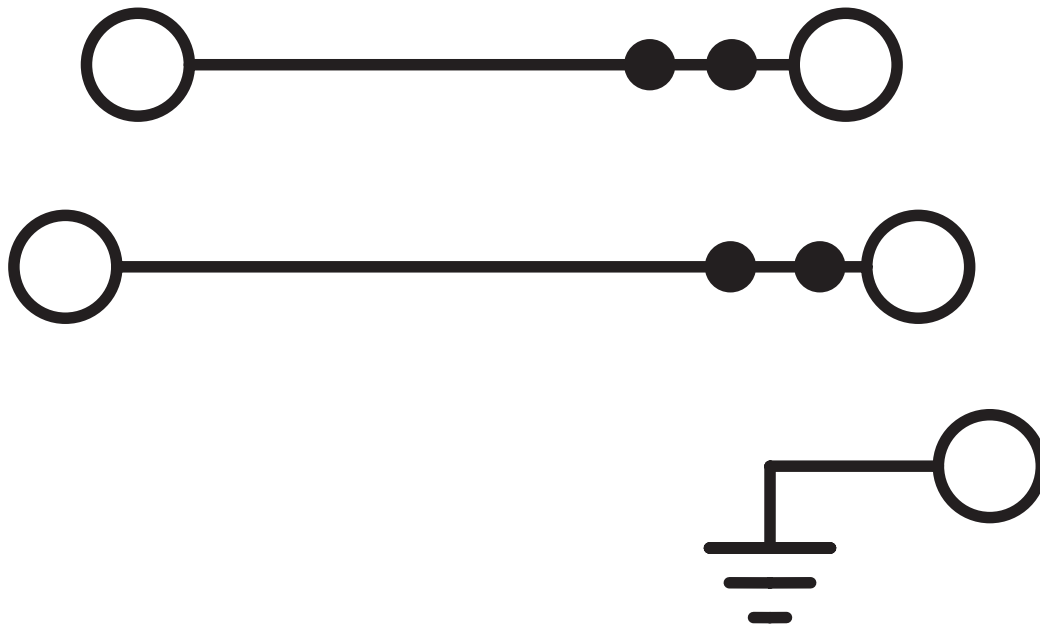
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## Drawings

Circuit diagram



# UTI 6-PE/L/N - Installation protective conductor terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3076041>

 **CSA**  
Approval ID: 13631

 **cULus Recognized**  
Approval ID: E60425

|               | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|---------------|-----------------------|-----------------------|-------------------|-----------------------------|
| B             |                       |                       |                   |                             |
|               | 300 V                 | 20 A                  | 24 - 8            | -                           |
| PE connection | -                     | -                     | 24 - 8            | -                           |
| D             |                       |                       |                   |                             |
|               | 300 V                 | 10 A                  | 24 - 8            | -                           |
| PE connection | -                     | -                     | 24 - 8            | -                           |

 **CSA**  
Approval ID: 13631

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250110 |
| ECLASS-15.0 | 27250110 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001329 |
|-----------|----------|

### UNSPSC

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

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## 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.203 kg CO2e |
|---------|---------------|

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