

# UT 2,5-TWIN-PE - Protective conductor terminal block



3044539

<https://www.phoenixcontact.com/us/products/3044539>

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Protective conductor terminal block, number of connections: 3, connection method: Screw connection, 1 level, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

## Your advantages

- Globally recognized: Internationally proven screw connection
- Maintenance-free and vibration-resistant thanks to the patented Reakdyn principle
- Meet the requirements of DIN EN 60947-7-2 or IEC 60947-7-2 for protective conductor connections
- High level of safety thanks to the low-resistance connection to the ground potential via the top-hat rail
- Direct contacting with the DIN rail enables fast, error-free grounding without additional wiring effort.
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3044539       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1122        |
| GTIN                                 | 4046356055420 |
| Weight per piece (including packing) | 15.074 g      |
| Weight per piece (excluding packing) | 14.64 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Product family        | UT                    |
| Area of application   | Railway industry      |
|                       | Machine building      |
|                       | Plant engineering     |
|                       | Process industry      |
| Number of connections | 3                     |
| Number of rows        | 1                     |

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Grounding foot                  | Yes                 |
| Number of connections per level | 3                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |
| Rated cross section AWG         | 12                  |

### 1 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                                         | A3                                                             |
| Connection in acc. with standard                                  | IEC 60947-7-2                                                  |
| Conductor cross-section rigid                                     | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |
| Cross section AWG                                                 | 26 ... 12 (converted acc. to IEC)                              |
| Conductor cross-section flexible                                  | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |
| Conductor cross-section, flexible [AWG]                           | 26 ... 12 (converted acc. to IEC)                              |
| Conductor cross-section flexible ultrasound-compressed            | 0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |
| Conductor cross-section, flexible [AWG] ultrasound-compressed     | 22 ... 12 (converted acc. to IEC)                              |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                   |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                   |

### Ex data

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## Rated data (ATEX/IECEx)

|                             |                         |
|-----------------------------|-------------------------|
| Identification              | Ex II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C       |
| Ex-certified accessories    | 3047141 D-UT 2,5/4-TWIN |
|                             | 3047109 DS-UT 2,5/4     |
|                             | 1205053 SZS 0,6X3,5     |
|                             | 3022276 CLIPFIX 35-5    |
|                             | 3022218 CLIPFIX 35      |
| output                      | (Permanent)             |

## Ex connection data General

|                              |                                              |
|------------------------------|----------------------------------------------|
| Torque range                 | 0.5 Nm ... 0.6 Nm                            |
| Nominal cross section        | 2.5 mm <sup>2</sup>                          |
| Rated cross section AWG      | 14                                           |
| Connection capacity rigid    | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Connection capacity AWG      | 26 ... 12                                    |
| Connection capacity flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection capacity AWG      | 26 ... 14                                    |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 5.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 57.8 mm |
| Depth              | 46.9 mm |
| Depth on NS 35/7,5 | 47.5 mm |
| Depth on NS 35/15  | 55 mm   |

## Material specifications

|                                                                         |              |
|-------------------------------------------------------------------------|--------------|
| Color                                                                   | green-yellow |
| 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)) | 130 °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)                        | 28 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       |

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## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$      |
| Acceleration           | 3.12g                                          |
| Test duration per axis | 5 h                                            |
| Test directions        | X-, Y- and Z-axis                              |

### 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.) |

### 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

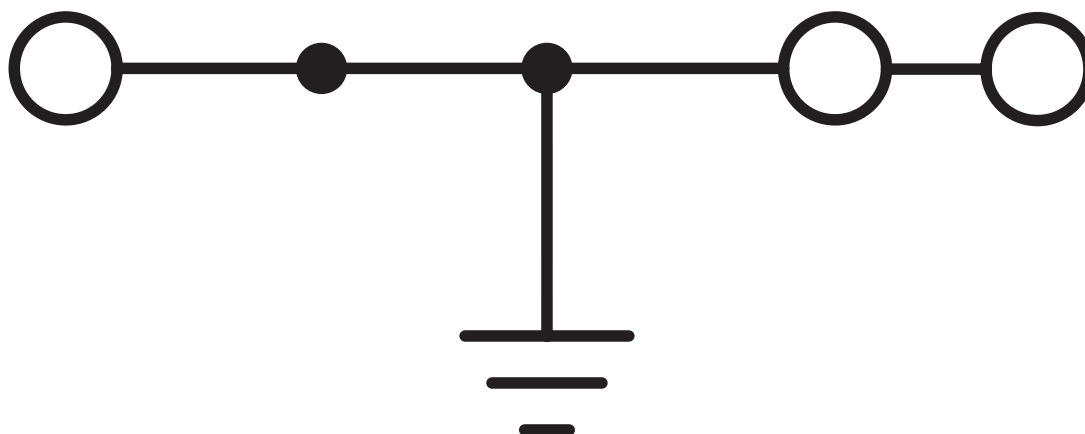
|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-2 |
|----------------------------------|---------------|

## Mounting

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

## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3044539>

### DNV

Approval ID: TAE00001S9



### CSA

Approval ID: 13631

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | -                     | -                     | 26 - 12           | -                           |



### ATEX

Approval ID: KEMA06ATEX0017U



### EAC Ex

Approval ID: KZ 7500525010101950



### IEC Ex

Approval ID: IECEx KEM 06.0013U



### CCC

Approval ID: 2020322313000622



### UKCA-EX

Approval ID: DEKRA 21UKEX0305U

### UL Comp Hazloc CA US

Approval ID: E192998

|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| B |                       |                       |                   |                             |
|   | -                     | -                     | 26 - 12           | -                           |
| C |                       |                       |                   |                             |
|   | -                     | -                     | 26 - 12           | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250103 |
| ECLASS-15.0 | 27250103 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000901 |
|-----------|----------|

### 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                                | b35975ac-1574-486b-8b4b-7818b320baa2 |

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 0.03 kg CO2e |
|---------|--------------|

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