# UT 16-PE - Protective conductor terminal block

3044212

https://www.phoenixcontact.com/us/products/3044212

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Protective conductor terminal block, number of connections: 2, connection method: Screw connection, Rated cross section: 16 mm$^2$, cross section: 1.5 mm$^2$ - 25 mm$^2$, 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 | 3044212 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE01 |
| Product key | BE1121 |
| GTIN | 4017918977573 |
| Weight per piece (including packing) | 47.36 g |
| Weight per piece (excluding packing) | 46.85 g |
| Customs tariff number | 85369010 |
| Country of origin | TR |

## 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 | 2 |
| Number of rows | 1 |

Insulation characteristics

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

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 2.43 W |

### Connection data

| | |
|---|---|
| Grounding foot | Yes |
| Number of connections per level | 2 |
| Nominal cross section | 16 mm² |

Level 1 above 1 below 1

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M5 |
| Note | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque | 2.5 ... 3 Nm |
| Stripping length | 14 mm |
| Internal cylindrical gage | A7 |
| Connection in acc. with standard | IEC 60947-7-2 |
| Conductor cross-section rigid | 1.5 mm² ... 25 mm² |
| Cross section AWG | 14 ... 4 (converted acc. to IEC) |
| Conductor cross-section flexible | 1.5 mm² ... 25 mm² |
| Conductor cross-section, flexible [AWG] | 14 ... 4 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm² ... 16 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1 mm² ... 16 mm² |
| Nominal cross section | 16 mm² |
| Note | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |

### Ex data

Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | Ⓔx II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C |
| Ex-certified accessories | 3047206 D-UT 16 |
| | 1205066 SZS 1,0X4,0 VDE |
| | 3022276 CLIPFIX 35-5 |
| | 3022218 CLIPFIX 35 |
| output | (Permanent) |

Ex connection data General

| | |
|---|---|
| Torque range | 2.5 Nm ... 3 Nm |
| Nominal cross section | 16 mm² |
| Rated cross section AWG | 6 |
| Connection capacity rigid | 1.5 mm² ... 25 mm² |
| Connection capacity AWG | 16 ... 4 |
| Connection capacity flexible | 1.5 mm² ... 16 mm² |
| Connection capacity AWG | 16 ... 6 |

## Dimensions

| | |
|---|---|
| Width | 12.2 mm |
| End cover width | 2.2 mm |
| Height | 55.5 mm |
| Depth | 54.4 mm |
| Depth on NS 35/7,5 | 55 mm |
| Depth on NS 35/15 | 62.5 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 |

## 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 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 (m/s²)²/Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |

Shocks

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| 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

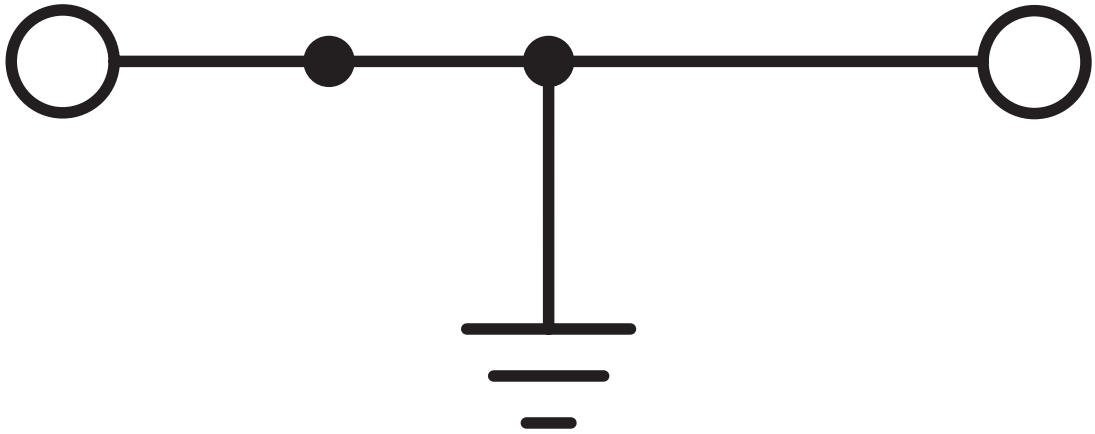
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-2 |

## Mounting

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

## Drawings

Circuit diagram



## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## 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 | 0.135 kg CO2e |


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