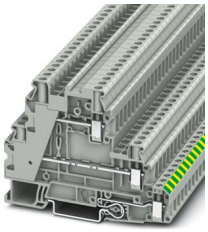
# UT 4-PE/L/L - Multi-level terminal block

3214360

https://www.phoenixcontact.com/us/products/3214360

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Multi-level terminal block, nom. voltage: 500 V, nominal current: 30 A, connection method: Screw connection, Rated cross section: 4 $mm^2$, cross section: 0.14 $mm^2$ - 6 $mm^2$, connection method: Screw connection, Rated cross section: 4 $mm^2$, cross section: 0.14 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## 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 | 3214360 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE01 |
| Product key | BE1125 |
| GTIN | 4046356895682 |
| Weight per piece (including packing) | 31.2 g |
| Weight per piece (excluding packing) | 31.2 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Multi-level terminal block |
| Product family | UT |
| Number of connections | 5 |
| Number of rows | 3 |
| Potentials | 3 |

Insulation characteristics

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

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.02 W |

### Connection data

| | |
|---|---|
| Grounding foot | Yes |
| Number of connections per level | 2 |
| Nominal cross section | 4 mm² |

Level 1 above 1 below 1

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M3 |
| Note | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 9 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-2 |
| Conductor cross-section rigid | 0.14 mm² ... 6 mm² |
| Cross section AWG | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.14 mm² ... 4 mm² |
| Nominal cross section | 4 mm² |
| Nominal current | 30 A |
| Maximum load current | 36 A (with 6 mm² conductor cross-section) |
| Nominal voltage | 500 V |

Level 2

| | |
|---|---|
| Connection method | Screw connection |

| | |
|---|---|
| Screw thread | M3 |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 9 mm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.14 mm² ... 6 mm² |
| Cross section AWG | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.14 mm² ... 4 mm² |
| Nominal cross section | 4 mm² |
| Nominal current | 30 A (with 4 mm² conductor cross-section) |
| Maximum load current | 36 A (with 6 mm² conductor connection) |
| Nominal voltage | 500 V |

## Ex data

Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | Ⓔx II 3 G Ex ec IIC Gc |
| Operating temperature range | -60 °C ... 130 °C |
| Ex-certified accessories | 3047183 ATP-UT-TWIN |
| | 1205053 SZS 0,6X3,5 |
| | 3022276 CLIPFIX 35-5 |
| | 3022218 CLIPFIX 35 |
| Rated insulation voltage | 500 V |
| output | (Permanent) |

Ex level General

| | |
|---|---|
| Rated voltage | 550 V |

Ex connection data General

| | |
|---|---|
| Torque range | 0.6 Nm ... 0.8 Nm |
| Nominal cross section | 4 mm² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.14 mm² ... 6 mm² |
| Connection capacity AWG | 26 ... 10 |
| Connection capacity flexible | 0.14 mm² ... 6 mm² |
| Connection capacity AWG | 26 ... 10 |
| 2 conductors with same cross section, solid | 0.14 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG rigid | 26 ... 16 |
| 2 conductors with same cross section, stranded | 0.14 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG flexible | 26 ... 16 |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 0.14 mm² |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 4 mm² |

| | |
|---|---|
| Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG | 26 ... 12 |
| output | (Permanent) |

Ex level Level 2

| | |
|---|---|
| Rated current | 26 A (4 mm²) |
| Maximum load current | 32 A (6 mm²) |
| Contact resistance | 0.6 mΩ |
| Temperature increase | 40 K (26 A / 4 mm²) |
| output | (Permanent) |

Ex level Level 3

| | |
|---|---|
| Rated current | 26 A (4 mm²) |
| Maximum load current | 32 A (6 mm²) |
| Contact resistance | 0.4 mΩ |
| Temperature increase | 40 K (26 A / 4 mm²) |

## Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Height | 92.7 mm |
| Depth | 60.1 mm |
| Depth on NS 35/7,5 | 61.7 mm |
| Depth on NS 35/15 | 69.2 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 |
| 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 |

## 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 |
| Short-time withstand current 4 mm² | 0.48 kA |
| Short-time withstand current 6 mm² | 0.72 kA |
| 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

| | |
|---|---|
| DIN rail/fixing support | NS 35 |
| Test force setpoint | 5 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.14 mm² / 0.2 kg |
| | 4 mm² / 0.9 kg |
| | 6 mm² / 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 | 0.964 (m/s²)²/Hz |
| Acceleration | 0.58g |
| 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 | Half-sine |
| 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

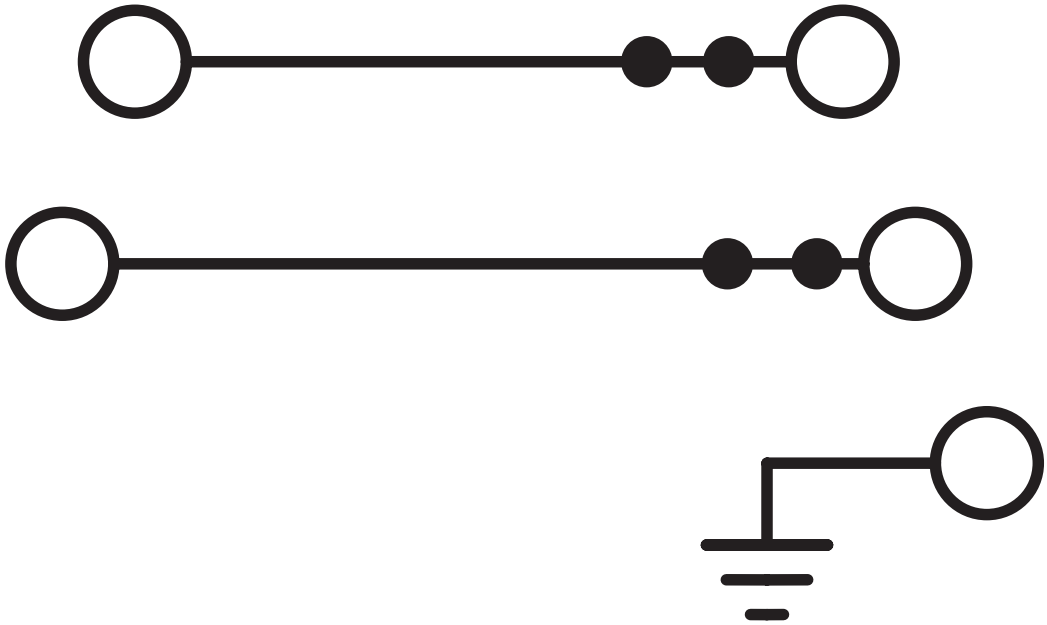
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-2 |
| | IEC 60947-7-1 |

## Mounting

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

## Drawings

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3214360

**cULus Recognized**
Approval ID: FILEE60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| upper level | 300 V | 16 A | 26 - 10 | - |
| lower level | 300 V | 20 A | 26 - 10 | - |
| PE connection | - | - | 26 - 10 | - |
| C | | | | |
| upper level | 300 V | 16 A | 26 - 10 | - |
| lower level | 300 V | 20 A | 26 - 10 | - |
| PE connection | - | - | 26 - 10 | - |
| D | | | | |
| PE connection | - | - | 26 - 10 | - |

**cUL Recognized**
Approval ID: E192998

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| upper level | 300 V | 16 A | 26 - 10 | 26 - 10 |
| PE connection | - | - | 26 - 10 | 26 - 10 |
| middle level | 300 V | 20 A | 26 - 10 | 26 - 10 |

**IECEx**
Approval ID: IECExKIWA14.0014

**UL Recognized**
Approval ID: E192998

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| upper level | 300 V | 16 A | 26 - 10 | - |
| PE connection | - | - | 26 - 10 | - |
| middle level | 300 V | 20 A | 26 - 10 | - |

**CCC**
Approval ID: 2020322313000632

**ATEX**
Approval ID: KIWA14ATEX0025U

**UKCA-EX**
Approval ID: CSAE 21UKEX3606U

**EAC Ex**
Approval ID: KZ 7500525010101950

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250104 |
| ECLASS-15.0 | 27250104 |

### ETIM

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

### UNSPSC

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

## 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 | b2805153-b880-4d48-85fe-1deef2adbe72 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.072 kg CO2e |


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