

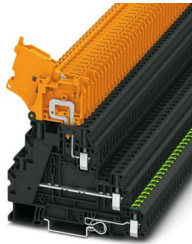
# UT 4-PE/L/HEDI - Lever-type disconnect terminal block



3214324

<https://www.phoenixcontact.com/us/products/3214324>

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Lever-type disconnect terminal block, nom. voltage: 500 V, nominal current: 28 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>, connection method: Screw connection, Rated cross section: 1 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, color: black/orange

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3214324       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1134        |
| GTIN                                 | 4046356895132 |
| Weight per piece (including packing) | 36.37 g       |
| Weight per piece (excluding packing) | 36.37 g       |
| Customs tariff number                | 85365080      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground 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 mm <sup>2</sup> |

### Level 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 60947-7-3  |
| 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 ultrasound-compressed            | 0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup>                     |
| Conductor cross-section, flexible [AWG] ultrasound-compressed     | 22 ... 10 (converted acc. to IEC)                              |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |
| Nominal cross section   | 4 mm <sup>2</sup>  |
| Nominal current   | 28 A (with 4 mm <sup>2</sup> conductor cross-section)          |
| Maximum load current  | 36 A (with 6 mm <sup>2</sup> conductor cross-section)          |
| Nominal voltage   | 500 V  |

### Level 2

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

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|   |   |
|---|---|
| Screw thread  | M3  |
| Tightening torque   | 0.6 ... 0.8 Nm  |
| Stripping length  | 9 mm  |
| 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) | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Nominal cross section   | 1 mm <sup>2</sup>                                     |
| Nominal current   | 20 A (with 4 mm <sup>2</sup> conductor cross-section) |
| Maximum load current  | 20 A (with 6 mm <sup>2</sup> conductor connection)    |
| Nominal voltage   | 500 V   |

## Ex data

### Rated data (ATEX/IECEx)

|                             |                       |
|-----------------------------|-----------------------|
| Identification              | ⊕ 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 mm <sup>2</sup>                            |
| Rated cross section AWG  | 12   |
| Connection capacity rigid  | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Connection capacity AWG  | 26 ... 10                                    |
| Connection capacity flexible   | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Connection capacity AWG  | 26 ... 10                                    |
| 2 conductors with same cross section, solid                                | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG rigid                         | 26 ... 16                                    |
| 2 conductors with same cross section, stranded                             | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG flexible                      | 26 ... 16                                    |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup>                         |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 4 mm <sup>2</sup>                            |

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

## Ex level Level 2

|                      |                                  |
|----------------------|----------------------------------|
| Rated current        | 24 A (4 mm <sup>2</sup> )        |
| Maximum load current | 32 A (6 mm <sup>2</sup> )        |
| Contact resistance   | 0.6 mΩ                           |
| Temperature increase | 40 K (24 A / 4 mm <sup>2</sup> ) |
| output               | (Permanent)                      |

## Ex level Level 3

|                      |                                  |
|----------------------|----------------------------------|
| Rated current        | 16 A (4 mm <sup>2</sup> )        |
| Maximum load current | 16 A (6 mm <sup>2</sup> )        |
| Contact resistance   | 1.6 mΩ                           |
| Temperature increase | 40 K (16 A / 4 mm <sup>2</sup> ) |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| Height             | 92.7 mm |
| Depth              | 94.5 mm |
| Depth on NS 35/7,5 | 88.9 mm |
| Depth on NS 35/15  | 96.4 mm |

## Material specifications

|   |                      |
|---|----------------------|
| Color   | multicolored (RAL -) |
|   | black (RAL 9005)     |
|   | orange (RAL 2003)    |
| 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

# UT 4-PE/L/HEDI - Lever-type disconnect terminal block



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## Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Environmental and real-life conditions

### Oscillation/broadband noise

|                        |  |
|------------------------|--|
| Specification          | DIN EN 50155 (VDE 0115-200):2008-03              |
| Spectrum               | Long life test category 1, class B, body mounted |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$   |
| ASD level              | $0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$       |
| 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

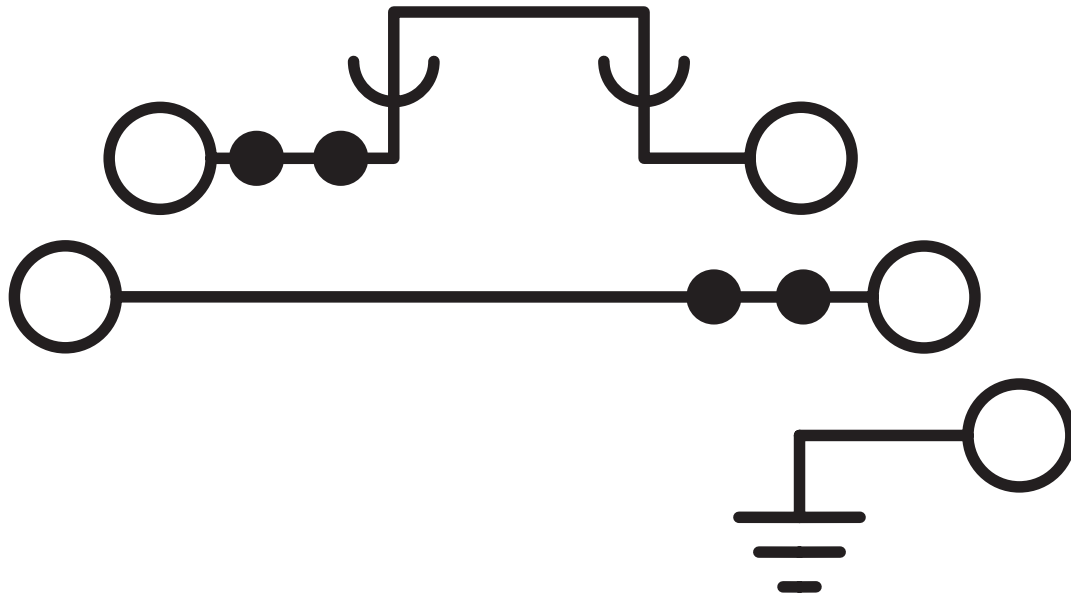
|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-3 |
|                                  | IEC 60947-7-3 |

## Mounting

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

Drawings

Circuit diagram



# UT 4-PE/L/HEDI - Lever-type disconnect terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3214324>



**cULus Recognized**

Approval ID: E60425



**cULus Recognized**

Approval ID: E60425



**cUL Recognized**

Approval ID: E192998

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| keine  |                       |                       |                   |                             |
| PE connection  | -                     | -                     | 26 - 10           | 26 - 10                     |
| middle level   | 300 V                 | 20 A                  | 26 - 10           | 26 - 10                     |
| assembled as disconnect terminal block with copper bolts | 300 V                 | 16 A                  | 26 - 10           | 26 - 10                     |



**IECEx**

Approval ID: IECExKIWA14.0014U



**UL Recognized**

Approval ID: E192998

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| keine  |                       |                       |                   |                             |
| PE connection  | -                     | -                     | 26 - 10           | -                           |
| middle level   | 300 V                 | 20 A                  | 26 - 10           | -                           |
| assembled as disconnect terminal block with copper bolts | 300 V                 | 16 A                  | 26 - 10           | -                           |



**CCC**

Approval ID: 2020322313000632



**ATEX**

Approval ID: KIWA14ATEX0025U

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**UKCA-EX**

Approval ID: CSAFE 21UKEX3606U



**EAC Ex**

Approval ID: KZ 7500525010101950

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250108 |
| ECLASS-15.0 | 27250108 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000902 |
|-----------|----------|

### 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                                | 5c9cfea6-d1a7-491f-94e6-247425e0c4ae |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.105 kg CO2e |
|---------|---------------|

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