

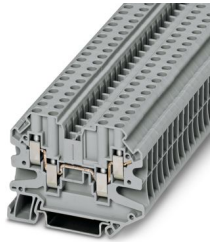
# UT 4-QUATTRO HV - Four-conductor universal terminal block



3048823

<https://www.phoenixcontact.com/us/products/3048823>

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Four-conductor universal terminal block, nom. voltage: 1000 V, nominal current: 32 A, number of connections: 4, 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>, 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
- Space savings and flexibility with the connection of two identical conductors
- Long-term stable connections with the use of high-quality materials
- Low self-heating due to high contact forces
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Compact wiring of three conductors in a single terminal block

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3048823       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1113        |
| GTIN                                 | 4046356517317 |
| Weight per piece (including packing) | 17.97 g       |
| Weight per piece (excluding packing) | 16.711 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Multi-conductor terminal block |
| Product family        | UT                             |
| Number of connections | 4                              |
| Number of rows        | 1                              |
| Potentials            | 1                              |

### 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

|   |   |
|---|---|
| Number of connections per level   | 4   |
| Nominal cross section   | 4 mm <sup>2</sup>   |
| Connection method   | Screw connection  |
| Screw thread  | M3  |
| Tightening torque   | 0.6 ... 0.8 Nm  |
| Stripping length  | 9 mm  |
| Internal cylindrical gage   | A4  |
| Connection in acc. with standard  | IEC 60947-7-1   |
| 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>  |
| 2 conductors with same cross section, rigid   | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible  | 0.14 mm <sup>2</sup> ... 1.5 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>  |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Nominal cross section   | 4 mm <sup>2</sup>   |
| Nominal current   | 32 A (with 4 mm <sup>2</sup> conductor cross-section)   |
| Maximum load current  | 37 A (In the case of a 6 mm <sup>2</sup> conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors) |

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|                 |        |
|-----------------|--------|
| Nominal voltage | 1000 V |
|-----------------|--------|

## Ex data

### Rated data (ATEX/IECEX)

|  |                                     |
|--|-------------------------------------|
| Identification                                     | ⊕ II 2 GD Ex eb IIC Gb              |
| Operating temperature range                        | -60 °C ... 110 °C                   |
| Ex-certified accessories                           | 3048852 D-UT 4-QUATTRO HV           |
|  | 3047109 DS-UT 2,5/4                 |
|  | 1212587 SF-SL 0,6X3,5-100 S-VDE     |
|  | 3022276 CLIPFIX 35-5                |
| List of bridges                                    | Plug-in bridge / FBS 2-6 / 3030336  |
|  | Plug-in bridge / FBS 3-6 / 3030242  |
|  | Plug-in bridge / FBS 4-6 / 3030255  |
|  | Plug-in bridge / FBS 5-6 / 3030349  |
|  | Plug-in bridge / FBS 10-6 / 3030271 |
|  | Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data  | 27 A (4 mm <sup>2</sup> )           |
| Ex temperature increase                            | 40 K (27 A / 4 mm <sup>2</sup> )    |
| for bridging with bridge                           | 550 V                               |
| - At bridging between non-adjacent terminal blocks | 352 V                               |
| Rated insulation voltage                           | 500 V                               |
| output   | (Permanent)                         |

### Ex level General

|                      |        |
|----------------------|--------|
| Rated voltage        | 550 V  |
| Rated current        | 27 A   |
| Maximum load current | 32 A   |
| Contact resistance   | 0.6 mΩ |

### 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                                    |

## Dimensions

|                 |        |
|-----------------|--------|
| Width           | 6.2 mm |
| End cover width | 2.2 mm |

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|                    |         |
|--------------------|---------|
| Height             | 65.4 mm |
| Depth on NS 35/7,5 | 50 mm   |
| Depth on NS 35/15  | 57.5 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 | 9.8 kV      |
| Result                | Test passed |

### Temperature-rise test

|  |                                     |
|--|-------------------------------------|
| Requirement temperature-rise test              | Increase in temperature $\leq$ 45 K |
| Result   | Test passed                         |
| Short-time withstand current 4 mm <sup>2</sup> | 0.48 kA                             |
| Short-time withstand current 6 mm <sup>2</sup> | 0.72 kA                             |
| Result   | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 kV      |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

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

### Attachment on the carrier

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|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint     | 1 N         |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                               |
|--------------------------------|-------------------------------|
| Rotation speed                 | 10 (+/- 2) rpm                |
| Revolutions                    | 135                           |
| Conductor cross-section/weight | 0.14 mm <sup>2</sup> / 0.2 kg |
|                                | 4 mm <sup>2</sup> / 0.9 kg    |
|                                | 6 mm <sup>2</sup> / 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):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 (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

|                                |                                     |
|--------------------------------|-------------------------------------|
| 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 %  |

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## Standards and regulations

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

## Mounting

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

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## Drawings

### Circuit diagram



# UT 4-QUATTRO HV - Four-conductor universal terminal block





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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3048823>


|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-62912 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
|  | 1000 V                | -                     | -                 | - 4                  |


|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  |                       |                       |                   |                      |
|  | 600 V                 | 30 A                  | 26 - 10           | -                    |
| C  |                       |                       |                   |                      |
|  | 600 V                 | 30 A                  | 26 - 10           | -                    |

|  <b>VDE approval of drawings</b><br>Approval ID: 40040772 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
|  | 1000 V                | 32 A                  | -                 | 0.14 - 6             |

|  <b>EAC Ex</b><br>Approval ID: KZ 7500525010101950 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>IECEX</b><br>Approval ID: IECEX SEV13.0004U |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>ATEX</b><br>Approval ID: SEV13ATEX0133U |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>CCC</b><br>Approval ID: 2020322313000622 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>UKCA-EX</b><br>Approval ID: CML 22UKEX1231U |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

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

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)