

# UT 4-MTD WH - Feed-through terminal block



3047701

<https://www.phoenixcontact.com/us/products/3047701>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, number of positions: 1, 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: white

## 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
- Vibration-resistant and maintenance-free conductor connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3047701       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1111        |
| GTIN                                 | 4046356145695 |
| Weight per piece (including packing) | 11.417 g      |
| Weight per piece (excluding packing) | 11.417 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| Product family        | UT                          |
| Number of positions   | 1                           |
| 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 | 1.02 W |

### Connection data

|   |   |
|---|---|
| Number of connections per level   | 2   |
| 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)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.25 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       | 0.14 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> ... 2.5 mm <sup>2</sup>           |
| Nominal cross section   | 4 mm <sup>2</sup>                                     |
| Nominal current   | 32 A  |
| Maximum load current  | 41 A (with 6 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage   | 800 V   |

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## Ex data

### Rated data (ATEX/IECEX)

|  |  |
|--|--|
| Identification   | Ⓜ II 2 GD Ex eb IIC Gb   |
| Operating temperature range  | -60 °C ... 110 °C  |
| Ex-certified accessories   | 3047141 D-UT 2,5/4-TWIN<br>3047167 ATP-UT<br>1205053 SZS 0,6X3,5<br>3022276 CLIPFIX 35-5<br>3022218 CLIPFIX 35   |
| List of bridges  | Plug-in bridge / FBS 2-6 / 3030336<br>Plug-in bridge / FBS 3-6 / 3030242<br>Plug-in bridge / FBS 4-6 / 3030255<br>Plug-in bridge / FBS 5-6 / 3030349<br>Plug-in bridge / FBS 10-6 / 3030271<br>Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data  | 29 A (4 mm <sup>2</sup> )  |
| Ex temperature increase  | 40 K (32 A / 4 mm <sup>2</sup> )   |
| for bridging with bridge   | 690 V  |
| - At bridging between non-adjacent terminal blocks                       | 352 V  |
| - At bridging between non-adjacent terminal blocks via PE terminal block | 275 V  |
| via PE/S when bridging between non-adjacent terminal blocks              | 176 V  |
| - At cut-to-length bridging with cover                                   | 220 V  |
| - At cut-to-length bridging with partition plate                         | 275 V  |
| Rated insulation voltage   | 630 V  |
| output   | (Permanent)  |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 690 V   |
| Rated current        | 29 A    |
| Maximum load current | 36 A    |
| Contact resistance   | 0.32 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> ... 4 mm <sup>2</sup>   |
| Connection capacity AWG                            | 26 ... 12                                    |
| 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> |

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|   |           |
|---|-----------|
| 2 conductors with the same cross-section AWG flexible | 26 ... 16 |
|---|-----------|

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 57.8 mm |
| Depth on NS 35/7,5 | 47.5 mm |
| Depth on NS 35/15  | 55 mm   |

## Material specifications

|  |                  |
|--|------------------|
| Color  | white (RAL 9010) |
| 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           |

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### 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 |
|----------------------------------|---------------|

## Mounting

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

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NS 35/15

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## Drawings

Circuit diagram



# UT 4-MTD WH - Feed-through terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3047701>

|                                       |
|---------------------------------------|
| <b>DNV</b><br>Approval ID: TAE00001S9 |
|---------------------------------------|

|   |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
| <b>CB Scheme</b><br>Approval ID: DE1-63061_M1 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine   | 800 V                 | 32 A                  | -                 | 0.2 - 4              |

|  |
|--|
| <b>LR</b><br>Approval ID: LR24100022TA |
|--|

|  |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
| <b>VDE Zeichengenehmigung</b><br>Approval ID: 40013658 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  | 800 V                 | 32 A                  | -                 | 0.2 - 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  |                       |                       |                   |                      |
| Factory wiring                                 | 600 V                 | 40 A                  | 26 - 10           | -                    |
|  | 600 V                 | 30 A                  | 26 - 10           | -                    |
| Multi-conductor connection                     | 600 V                 | 30 A                  | 26 - 14           | -                    |
| C  |                       |                       |                   |                      |
| Factory wiring                                 | 600 V                 | 40 A                  | 26 - 10           | -                    |
|  | 600 V                 | 30 A                  | 26 - 10           | -                    |
| Multi-conductor connection                     | 600 V                 | 30 A                  | 26 - 14           | -                    |

|                                  |                       |                       |                   |                      |
|----------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| <b>CSA</b><br>Approval ID: 13631 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B                                | 600 V                 | 30 A                  | 26 - 10           | -                    |
| C                                |                       |                       |                   |                      |

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|  |       |      |         |   |
|--|-------|------|---------|---|
|  | 600 V | 30 A | 26 - 10 | - |
|--|-------|------|---------|---|



**ATEX**

Approval ID: KEMA04ATEX2048U

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|----------------------|
| keine                    |                       |                       |                   |                      |
| Only flexible conductors | 690 V                 | 29 A                  | -                 | 0.14 - 4             |
| Only rigid conductors    | 690 V                 | 36 A                  | -                 | 0.14 - 6             |



**cUL Recognized**

Approval ID: E192998

|   | 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           | -                    |



**EAC Ex**

Approval ID: KZ 7500525010101950



**IECEX**

Approval ID: IECEX KEM 06.0027U

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|----------------------|
| keine                    |                       |                       |                   |                      |
| Only flexible conductors | 690 V                 | 29 A                  | -                 | 0.14 - 4             |
| Only rigid conductors    | 690 V                 | 36 A                  | -                 | 0.14 - 6             |



**UL Recognized**

Approval ID: E192998

|   | 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           | -                    |



**CCC**

Approval ID: 2020322313000622

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**UKCA-EX**

Approval ID: DEKRA 21UKEX0304U

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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  |
| 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                                | abcd6ede-b5b2-4bed-9ac1-7f04736e2f3c |

### EF3.1 Climate Change

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

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