

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



1079168

<https://www.phoenixcontact.com/nl/products/1079168>

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Feed-through terminal block, nom. voltage: 500 V, nominal current: 32 A, number of connections: 3, 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
- Compact wiring of three conductors in a single terminal block

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1079168       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE1112        |
| Product key                          | BE1112        |
| GTIN                                 | 4055626798103 |
| Weight per piece (including packing) | 13,619 g      |
| Weight per piece (excluding packing) | 13,619 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Notes

#### General

|      |                                                                                              |
|------|----------------------------------------------------------------------------------------------|
| Note | The max. load current must not be exceeded by the total current of all connected conductors. |
|------|----------------------------------------------------------------------------------------------|

### Product properties

|                       |                   |
|-----------------------|-------------------|
| Product family        | UT                |
| Area of application   | Railway industry  |
|                       | Machine building  |
|                       | Plant engineering |
|                       | Process industry  |
| Number of connections | 3                 |
| 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                                   | 3                                            |
| 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> |

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|                                                                                           |                                                                                                                                                       |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.25 mm² ... 1.5 mm²                                                                                                                                  |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm²                                                                                                                                     |
| Nominal cross section                                                                     | 4 mm²                                                                                                                                                 |
| Nominal current                                                                           | 32 A                                                                                                                                                  |
| Maximum load current                                                                      | 41 A (In the case of a 6 mm² conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors) |
| Nominal voltage                                                                           | 500 V                                                                                                                                                 |

## Ex data

### Rated data (ATEX/IECEx)

|                                                                          |                                     |
|--------------------------------------------------------------------------|-------------------------------------|
| Identification                                                           | Ex II 2 GD Ex eb IIC Gb             |
| Operating temperature range                                              | -60 °C ... 110 °C                   |
| Ex-certified accessories                                                 | 3047141 D-UT 2,5/4-TWIN             |
|                                                                          | 3047109 DS-UT 2,5/4                 |
|                                                                          | 3047183 ATP-UT-TWIN                 |
|                                                                          | 1212587 SF-SL 0,6X3,5-100 S-VDE     |
|                                                                          | 3022276 CLIPFIX 35-5                |
|                                                                          | 3022218 CLIPFIX 35                  |
| 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 mm²)                        |
| Ex temperature increase                                                  | 40 K (32.5 A / 4 mm²)               |
| for bridging with bridge                                                 | 352 V                               |
| - At bridging between non-adjacent terminal blocks                       | 352 V                               |
| - At bridging between non-adjacent terminal blocks via PE terminal block | 275 V                               |
| - At cut-to-length bridging with cover                                   | 220 V                               |
| - At cut-to-length bridging with partition plate                         | 275 V                               |
| Rated insulation voltage                                                 | 320 V                               |
| output                                                                   | (Permanent)                         |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 352 V   |
| Rated current        | 29 A    |
| Maximum load current | 35 A    |
| Contact resistance   | 0.44 mΩ |

### Ex connection data General

|              |                   |
|--------------|-------------------|
| Torque range | 0.6 Nm ... 0.8 Nm |
|--------------|-------------------|

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|                                                       |                                              |
|-------------------------------------------------------|----------------------------------------------|
| 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> |
| 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              | 46.9 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           |

## 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                    |
|                                                | Test passed                    |
| Short-time withstand current 4 mm <sup>2</sup> | 0.48 kA                        |

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|                                                |             |
|------------------------------------------------|-------------|
| Short-time withstand current 6 mm <sup>2</sup> | 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 | Yes |
|-----------------|-----|

## Mechanical tests

### Mechanical strength

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

### Attachment on the carrier

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

### Test for conductor damage and slackening

|                                |                               |
|--------------------------------|-------------------------------|
| Rotation speed                 | 10 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          | EN 50155:2021-07                                 |
| Spectrum               | Long life test category 2, bogie-mounted         |
| Frequency              | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 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 |
|---------------|-------------------------------------|

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|                                |                                   |
|--------------------------------|-----------------------------------|
| 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.) |
| 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 |
|----------------------------------|---------------|

## Mounting

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

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## Drawings

Circuit diagram



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



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1079168>

### DNV

Approval ID: TAE00001S9



### CSA

Approval ID: 13631

|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| B |                       |                       |                   |                             |
|   | 150 V                 | 30 A                  | 26 - 10           | -                           |
| C |                       |                       |                   |                             |
|   | 150 V                 | 30 A                  | 26 - 10           | -                           |



### IECEE CB Scheme

Approval ID: DE1-62912

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 500 V                 | -                     | -                 | -                           |



### cULus Recognized

Approval ID: E60425

|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| B |                       |                       |                   |                             |
|   | 300 V                 | 30 A                  | 26 - 10           | -                           |
| C |                       |                       |                   |                             |
|   | 300 V                 | 30 A                  | 26 - 10           | -                           |



### VDE Zeichengenehmigung

Approval ID: 40040772

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 500 V                 | 32 A                  | -                 | 0.14 - 6                    |



### ATEX

Approval ID: KEMA06ATEX0017U



### cUL Recognized

Approval ID: E192998

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|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| B |                       |                       |                   |                             |
|   | 150 V                 | 30 A                  | 26 - 10           | -                           |
| C |                       |                       |                   |                             |
|   | 150 V                 | 30 A                  | 26 - 10           | -                           |



**EAC Ex**

Approval ID: KZ 7500525010101950



**IEC Ex**

Approval ID: IECEx KEM 06.0013U



**UL Recognized**

Approval ID: E192998

|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| B |                       |                       |                   |                             |
|   | 150 V                 | 30 A                  | 26 - 10           | -                           |
| C |                       |                       |                   |                             |
|   | 150 V                 | 30 A                  | 26 - 10           | -                           |



**CCC**

Approval ID: 2020322313000622



**UKCA-EX**

Approval ID: DEKRA 21UKEX0305U

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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                                | 955c631c-74a4-4ae9-9b95-eea98ac71951 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0,029 kg CO2e |
|---------|---------------|

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PHOENIX CONTACT B.V.  
Hengelder 56 6902 PA Zevenaar  
Postbus 246 6900 AE Zevenaar  
(0316) 59 17 20  
[sales@phoenixcontact.nl](mailto:sales@phoenixcontact.nl)