

# UTTB 4-PV - Double-level terminal block



3044733

<https://www.phoenixcontact.com/us/products/3044733>

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Double-level terminal block, with equipotential bonder, nom. voltage: 800 V, nominal current: 30 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>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Since there are two function shafts per level, all potential distribution tasks can be implemented quickly
- As an option, the levels can be connected using the FBS-PV UT vertical bridge
- For a clear overview, each terminal point supports large-surface labeling
- Tested for railway applications
- For example, two separate potentials can be routed side by side with the help of bridging between non-adjacent terminal blocks

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3044733       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1114        |
| GTIN                                 | 4017918997069 |
| Weight per piece (including packing) | 20.22 g       |
| Weight per piece (excluding packing) | 19.51 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                       |                            |
|-----------------------|----------------------------|
| Product type          | Multi-level terminal block |
| Product family        | UT                         |
| Area of application   | Railway industry           |
|                       | Machine building           |
|                       | Plant engineering          |
|                       | Process industry           |
| Number of connections | 4                          |
| Number of rows        | 2                          |
| Potentials            | 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> |

### Level 1+2

|                                                                                           |                                              |
|-------------------------------------------------------------------------------------------|----------------------------------------------|
| 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 (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, solid                                               | 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 current                                                                           | 30 A                                         |

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|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| Maximum load current  | 36 A (with 6 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage       | 800 V                                                 |
| Nominal cross section | 4 mm <sup>2</sup>                                     |

## 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                                                 | 3047293 D-UTTB 2,5/4<br>3047303 DP-UTTB 2,5/4<br>3047316 ATP-UTTB 2,5/4<br>1212587 SF-SL 0,6X3,5-100 S-VDE<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                                                              | 25.5 A / 4 mm <sup>2</sup>                                                                                                                                                                                                         |
| Ex temperature increase                                                  | 40 K (32.8 A / 4 mm <sup>2</sup> )                                                                                                                                                                                                 |
| for bridging with bridge                                                 | 440 V                                                                                                                                                                                                                              |
| - At bridging between non-adjacent terminal blocks                       | 275 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                         | 176 V                                                                                                                                                                                                                              |
| Rated insulation voltage                                                 | 400 V                                                                                                                                                                                                                              |
| output                                                                   | (Permanent)                                                                                                                                                                                                                        |

### Ex level General

|                      |        |
|----------------------|--------|
| Rated voltage        | 440 V  |
| Rated current        | 29.5 A |
| Maximum load current | 33.5 A |

### 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> |

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|                                                       |                      |
|-------------------------------------------------------|----------------------|
| 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            |
| output                                                | (Permanent)          |

## Ex level Level 1

|                    |             |
|--------------------|-------------|
| Contact resistance | 0.35 mΩ     |
| output             | (Permanent) |

## Ex level Level 2

|                    |             |
|--------------------|-------------|
| Contact resistance | 0.2 mΩ      |
| output             | (Permanent) |

## Ex level PV connection

|                    |        |
|--------------------|--------|
| Contact resistance | 0.5 mΩ |
|--------------------|--------|

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 69.9 mm |
| Depth              | 64.4 mm |
| Depth on NS 35/7,5 | 65 mm   |
| Depth on NS 35/15  | 72.5 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          |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °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)                        | 27,5 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          |

## Electrical tests

### Surge voltage test

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

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## 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                             |
| Result                                         | Test passed                         |

## Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2 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          | DIN EN 50155 (VDE 0115-200):2018-05       |
| Spectrum               | Long life test category 2, bogie-mounted  |
| Frequency              | $f_1 = 5$ Hz to $f_2 = 250$ 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                         |

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## Shocks

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

## 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  |

# UTTB 4-PV - Double-level terminal block

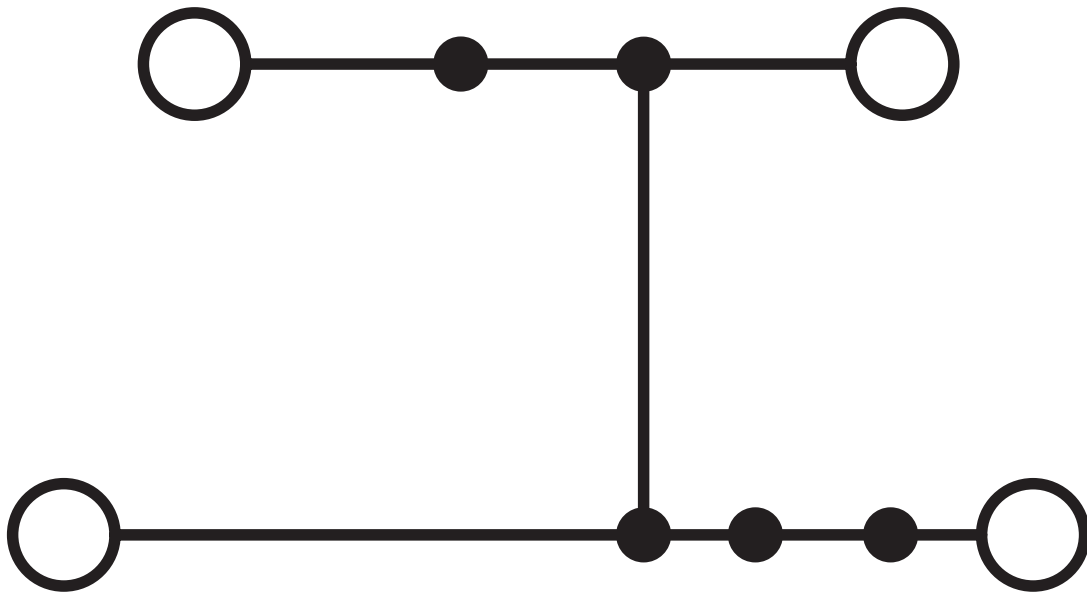


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3044733>

### 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 |                       |                       |                   |                             |
|   | 300 V                 | 30 A                  | 26 - 10           | -                           |
| C |                       |                       |                   |                             |
|   | 300 V                 | 30 A                  | 26 - 10           | -                           |
| D |                       |                       |                   |                             |
|   | 600 V                 | 5 A                   | 26 - 10           | -                           |



### ATEX

Approval ID: KEMA06ATEX0017U



### cUL Recognized

Approval ID: E192998

|   | 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           | -                           |



### EAC Ex

Approval ID: KZ 7500525010101950



### IECEx

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 |                       |                       |                   |                             |
|   | 300 V                 | 30 A                  | 26 - 10           | -                           |
| C |                       |                       |                   |                             |

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|  |       |      |         |   |
|--|-------|------|---------|---|
|  | 300 V | 30 A | 26 - 10 | - |
|--|-------|------|---------|---|



**CCC**  
Approval ID: 2020322313000622



**UKCA-EX**  
Approval ID: DEKRA 21UKEX0305U

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250102 |
| ECLASS-15.0 | 27250102 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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                                | b4c4f9c0-2bf2-4647-9dba-e5991c73d23d |

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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)