

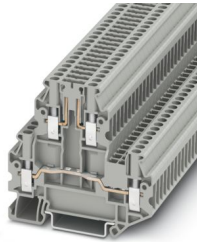
# UTT 2,5-TG-P/P - Disconnect terminal block



3044644

<https://www.phoenixcontact.com/us/products/3044644>

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Disconnect terminal block, Current and voltage are determined by the plug used., With test socket screws for insertion of test plugs, nom. voltage: 400 V, Thermal continuous current  $I_{th}$ : 22 A, connection method: Screw connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, Disconnect zone, connection method: Screw connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- For a clear overview, each terminal point supports large-surface labeling
- For example, two separate potentials can be routed side by side with the help of bridging between non-adjacent terminal blocks
- Standardized disconnect zone for the use of component plugs

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3044644             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE01                |
| Product key                          | BE1131              |
| Catalog page                         | Page 151 (C-1-2019) |
| GTIN                                 | 4046356894074       |
| Weight per piece (including packing) | 17.198 g            |
| Weight per piece (excluding packing) | 17.198 g            |
| Customs tariff number                | 85369010            |
| Country of origin                    | PL                  |

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## Technical data

### Notes

|         |  |
|---------|--|
| General | Current and voltage are determined by the plug used. |
|---------|--|

### Product properties

|                       |                           |
|-----------------------|---------------------------|
| Product type          | Disconnect terminal block |
| Number of connections | 4                         |
| Number of rows        | 2                         |
| Potentials            | 2                         |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 2                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |

### Level 1

|   |   |
|---|---|
| Screw thread  | M3  |
| Tightening torque   | 0.5 ... 0.6 Nm  |
| Stripping length  | 9 mm  |
| Internal cylindrical gage   | A3  |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Conductor cross section rigid   | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Cross section AWG   | 26 ... 12 (converted acc. to IEC)                     |
| Conductor cross section flexible  | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Conductor cross section, flexible [AWG]   | 26 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 2.5 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> ... 1.5 mm <sup>2</sup>           |
| Thermal continuous current I <sub>th</sub>  | 22 A  |
| Maximum load current  | 24 A (with 4 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage   | 400 V   |
| Nominal cross section   | 2.5 mm <sup>2</sup>                                   |

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## Disconnect zone

|   |   |
|---|---|
| Screw thread  | M3  |
| Tightening torque   | 0.5 ... 0.6 Nm  |
| Stripping length  | 9 mm  |
| Internal cylindrical gage   | A3  |
| Connection in acc. with standard                                  | IEC 60947-7-1   |
| Conductor cross section rigid                                     | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Cross section AWG   | 26 ... 12 (converted acc. to IEC)                     |
| Conductor cross section flexible                                  | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Conductor cross section, flexible [AWG]                           | 26 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 2.5 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>          |
| Thermal continuous current I <sub>th</sub>                        | 16 A  |
| Maximum load current  | 16 A (with 4 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage   | 400 V   |
| Nominal cross section   | 2.5 mm <sup>2</sup>                                   |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 5.2 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        |
| 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

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## Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 7.3 kV      |
| Result                | Test passed |

## Temperature-rise test

|  |                                     |
|--|-------------------------------------|
| Requirement temperature-rise test                | Increase in temperature $\leq 45$ K |
| Result   | Test passed                         |
| Short-time withstand current 2.5 mm <sup>2</sup> | 0.3 kA                              |
| Short-time withstand current 1.5 mm <sup>2</sup> | 0.18 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       |
| 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 |
|                                | 2.5 mm <sup>2</sup> / 0.7 kg  |
|                                | 4 mm <sup>2</sup> / 0.9 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):2022-06         |
|               | DIN EN 50155 (VDE 0115-200):2022-06         |
| Spectrum      | Service life test category 2, bogie-mounted |
|               | Service life test category 2, bogie-mounted |

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|                        |  |
|------------------------|--|
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
|                        | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$      |
|                        | $6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$      |
| Acceleration           | 3.12g  |
|                        | 3.12g  |
| Test duration per axis | 5 h  |
|                        | 5 h  |
| Test directions        | X-, Y- and Z-axis                              |
|                        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |
|                        | Test passed                                    |

## Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape                    | Semi-sinusoidal                     |
|                                | Semi-sinusoidal                     |
| Acceleration                   | 5g                                  |
|                                | 5g                                  |
| Shock duration                 | 30 ms                               |
|                                | 30 ms                               |
| Number of shocks per direction | 3                                   |
|                                | 3                                   |
| Test directions                | X-, Y- and Z-axis (pos. and neg.)   |
|                                | X-, Y- and Z-axis (pos. and neg.)   |
| Result                         | Test passed                         |
|                                | 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 |
|                                  | IEC 60947-7-1 |

## Mounting

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141126 |
| ECLASS-12.0 | 27141126 |
| ECLASS-13.0 | 27250108 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000902 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

|            |  |
|------------|--|
| REACH SVHC | Lead 7439-92-1   |
| China RoHS | Environmentally Friendly Use Period = 50 years   |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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