

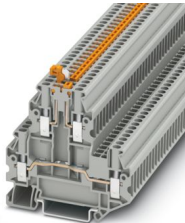
# UTTB 2,5-MT-P/P - Knife-disconnect terminal block



3044640

<https://www.phoenixcontact.com/us/products/3044640>

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Knife-disconnect terminal block, With test socket screws for insertion of test plugs, nom. voltage: 400 V, nominal current: 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>, 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
- Convenient separation of circuits, thanks to lever-type disconnect knife

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3044640       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1131        |
| GTIN                                 | 4046356894043 |
| Weight per piece (including packing) | 17.479 g      |
| Weight per piece (excluding packing) | 17.479 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### 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

|                                                                                           |                                                                                                                                                                |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection method                                                                         | Screw connection                                                                                                                                               |
| 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>                                                                                                                    |
| Nominal current                                                                           | 22 A                                                                                                                                                           |
| Maximum load current                                                                      | 24 A (in case of a 4 mm <sup>2</sup> conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors.) |
| Nominal voltage                                                                           | 400 V                                                                                                                                                          |
| Nominal cross section                                                                     | 2.5 mm <sup>2</sup>                                                                                                                                            |

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## Level 2

|                                                                   |                                                                                                                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection method                                                 | Screw connection                                                                                                                                               |
| 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>                                                                                                                   |
| Nominal current                                                   | 16 A                                                                                                                                                           |
| Maximum load current                                              | 16 A (in case of a 4 mm <sup>2</sup> conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors.) |
| 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 (RAL 7042) |
| Flammability rating according to UL 94                                  | V0              |
| Insulating material group                                               | I               |
| Insulating material                                                     | PA              |
| 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          |

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|                                                         |        |
|---------------------------------------------------------|--------|
| 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 |
| Short-time withstand current 2.5 mm <sup>2</sup> | 0.3 kA      |
| Short-time withstand current 4 mm <sup>2</sup>   | 0.4 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 |
|                                | 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):2008-03      |
| Spectrum      | Long life test category 2, bogie-mounted |

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|                        |                                                |
|------------------------|------------------------------------------------|
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$      |
| 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                   | 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 |
|                                  | IEC 60947-7-1 |

## Mounting

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

## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3044640>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                  |                       |                       |                   |                             |
| upper level                                                                                                        | 300 V                 | 16 A                  | 26 - 12           | -                           |
| lower level                                                                                                        | 300 V                 | 20 A                  | 26 - 12           | -                           |
| C                                                                                                                  |                       |                       |                   |                             |
| upper level                                                                                                        | 300 V                 | 16 A                  | 26 - 12           | -                           |
| lower level                                                                                                        | 300 V                 | 20 A                  | 26 - 12           | -                           |

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                                  |                       |                       |                   |                             |
| upper level                                                                                                                        | 300 V                 | 16 A                  | 26 - 12           | -                           |
| lower level                                                                                                                        | 300 V                 | 20 A                  | 26 - 12           | -                           |
| C                                                                                                                                  |                       |                       |                   |                             |
| upper level                                                                                                                        | 300 V                 | 16 A                  | 26 - 12           | -                           |
| lower level                                                                                                                        | 300 V                 | 20 A                  | 26 - 12           | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250108 |
| ECLASS-15.0 | 27250108 |

### ETIM

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

### 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                                | ccdc3205-3c67-407c-a4af-c5806f027a88 |

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