

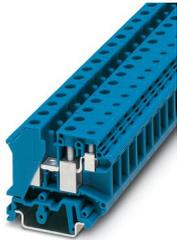
# UK 10-PLUS BU - Feed-through terminal block



3001475

<https://www.phoenixcontact.com/us/products/3001475>

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1-level terminal block with double connection on one side, cross section: 0.5 - 10 mm<sup>2</sup>, AWG: 24 - 6, width: 10.2 mm, color: blue

## Your advantages

- These twin modular terminal blocks are designed for the basic task of potential branching
- Two independent conductor connections can be used on the control cabinet side
- Universal foot for mounting on NS 35.. or NS 32... DIN rails
- Easy connection of different types of conductors with different cross sections
- Can be bridged in the terminal center, even with neighboring feed-through terminal blocks aligned

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3001475             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE12                |
| Product key                          | BE1212              |
| Catalog page                         | Page 467 (C-1-2019) |
| GTIN                                 | 4017918089948       |
| Weight per piece (including packing) | 21.6 g              |
| Weight per piece (excluding packing) | 21.6 g              |
| Customs tariff number                | 85369010            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Multi-conductor terminal block |
| Number of connections | 3                              |
| 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 | 1.82 W |

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 3                  |
| Nominal cross section           | 10 mm <sup>2</sup> |

#### 1 level

|   |  |
|---|--|
| Screw thread  | M4   |
| Note  | Feed-through   |
| Tightening torque   | 1.5 ... 1.8 Nm   |
| Stripping length  | 11 mm  |
| Connection in acc. with standard  | IEC 60947-7-1  |
| Conductor cross section rigid   | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>   |
| Cross section AWG   | 20 ... 6 (converted acc. to IEC)   |
| Conductor cross section flexible  | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>   |
| Conductor cross section, flexible [AWG]   | 20 ... 8 (converted acc. to IEC)   |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>   |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid   | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible  | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| Nominal current   | 57 A (with 10 mm <sup>2</sup> conductor cross section)   |
| Maximum load current  | 76 A (In case of a 16 mm <sup>2</sup> conductor connection, the maximum load current must not be exceeded by the total current of all connected conductors.) |
| Nominal voltage   | 800 V  |
| Nominal cross section   | 10 mm <sup>2</sup>   |

1st level connection right

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|   |   |
|---|---|
| Screw thread  | M3  |
| Tightening torque   | 0.6 ... 0.8 Nm  |
| Stripping length  | 7 mm  |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Conductor cross section rigid   | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Cross section AWG   | 24 ... 10 (converted acc. to IEC)   |
| Conductor cross section flexible  | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| 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, solid   | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| 2 conductors with same cross section, flexible  | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.25 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   | 32 A (with 6 mm <sup>2</sup> conductor cross section)   |
| Maximum load current  | 41 A (In the case of a 6 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   | 800 V   |
| Nominal cross section   | 4 mm <sup>2</sup>   |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 10.2 mm |
| Height             | 53 mm   |
| Depth on NS 32     | 52 mm   |
| Depth on NS 35/7,5 | 47 mm   |
| Depth on NS 35/15  | 54.5 mm |

## Material specifications

|   |             |
|---|-------------|
| Color   | blue        |
| 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)) | 130 °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)                        | 28 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      |

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## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Environmental and real-life conditions

### Ambient conditions

|  |   |
|--|---|
| Ambient temperature (operation)          | -60 °C ... 105 °C (max. short-term operating temperature 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 (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  |
|               | NS 32     |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250101 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC000897 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |  |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 years<br>For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |
|------------|--|

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