

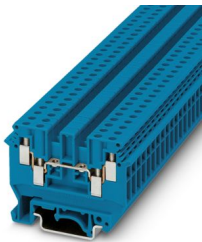
# UDK 4 BU - Feed-through terminal block



2775090

<https://www.phoenixcontact.com/us/products/2775090>

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Feed-through terminal block, nom. voltage: 630 V, nominal current: 32 A, number of connections: 4, number of positions: 1, connection method: Screw connection, 1 level, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: blue

## Your advantages

- Two connection points on each side to accommodate several conductors
- Double bridge shaft enables individual potential distribution and supply

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2775090             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE12                |
| Product key                          | BE1213              |
| Catalog page                         | Page 471 (C-1-2019) |
| GTIN                                 | 4017918068448       |
| Weight per piece (including packing) | 15.41 g             |
| Weight per piece (excluding packing) | 14.407 g            |
| Customs tariff number                | 85369010            |
| Country of origin                    | IN                  |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Multi-conductor terminal block |
| Number of positions   | 1                              |
| Number of connections | 4                              |
| Number of rows        | 1                              |
| Potentials            | 1                              |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 13 |
|------------------|----|

### 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 | 4                 |
| Nominal cross section           | 4 mm <sup>2</sup> |

#### 1 level

|   |   |
|---|---|
| Screw thread  | M3  |
| Tightening torque   | 0.5 ... 0.6 Nm  |
| Stripping length  | 8 mm  |
| Internal cylindrical gage   | A3  |
| 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 [AWG]   | 24 ... 12 (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> ... 1.5 mm <sup>2</sup>          |
| Cross-section with insertion bridge, rigid  | 2.5 mm <sup>2</sup>                                   |
| Cross-section with insertion bridge, flexible   | 2.5 mm <sup>2</sup>                                   |
| 2 conductors with same cross section, solid   | 0.2 mm <sup>2</sup> ... 1 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 mm <sup>2</sup>             |
| Nominal current   | 32 A (with 6 mm <sup>2</sup> conductor cross section) |

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|                       |   |
|-----------------------|---|
| Maximum load current  | 32 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       | 630 V   |
| Nominal cross section | 4 mm <sup>2</sup>   |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| End cover width    | 1.5 mm  |
| Height             | 63.5 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 (RAL 5015) |
| Flammability rating according to UL 94                           | V2              |
| Insulating material group  | I               |
| Insulating material  | PA              |
| Static insulating material application in cold                   | -40 °C          |
| Relative insulation material temperature index (Elec., UL 746 B) | 125 °C          |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV      |
| Result                | Test passed |

### 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 | 1.89 kV     |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## Mechanical tests

### Mechanical strength

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

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## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint     | 1 N         |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 (+/- 2) rpm               |
| Revolutions                    | 135                          |
| Conductor cross section/weight | 0.2 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 |

### 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, no longer than 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  |
|               | NS 32     |

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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/2775090>

### DNV

Approval ID: TAE00001CT



### CSA

Approval ID: 13631

|             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B |                       |                       |                   |                             |
|             | 300 V                 | 25 A                  | 22 - 10           | -                           |
| Use group C |                       |                       |                   |                             |
|             | 300 V                 | 25 A                  | 22 - 10           | -                           |
| Use group D |                       |                       |                   |                             |
|             | 600 V                 | 5 A                   | 22 - 10           | -                           |



### UL Recognized

Approval ID: FILE E 60425

|                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|----------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Field wiring   | 600 V                 | 30 A                  | 30 - 10           | -                           |
| Factory wiring | 600 V                 | 35 A                  | 30 - 10           | -                           |



### EAC

Approval ID: RU C-DE.BL08.B.00534



### cULus Recognized

Approval ID: E60425

|                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|----------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B    |                       |                       |                   |                             |
| Field wiring   | 300 V                 | 30 A                  | 30 - 10           | -                           |
| Factory wiring | 300 V                 | 35 A                  | 30 - 10           | -                           |
| Use group C    |                       |                       |                   |                             |
| Field wiring   | 300 V                 | 30 A                  | 30 - 10           | -                           |
| Factory wiring | 300 V                 | 35 A                  | 30 - 10           | -                           |
| Use group D    |                       |                       |                   |                             |
|                | 600 V                 | 5 A                   | 30 - 10           | -                           |

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## Classifications

### ECLASS

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

### 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                                    | 34a054b1-9b9c-4ec7-82cc-141d5172cf42  |

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