

# UT 10-FE - Feed-through terminal block



3047660

<https://www.phoenixcontact.com/us/products/3047660>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 2, connection method: Screw connection, Rated cross section: 10 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black/yellow

## Your advantages

- Globally recognized: Internationally proven screw connection
- Maintenance-free and vibration-resistant thanks to the patented Reakdyn principle
- Space savings and flexibility with the connection of two identical conductors
- Long-term stable connections with the use of high-quality materials
- Low self-heating due to high contact forces
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Vibration-resistant and maintenance-free conductor connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3047660       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1111        |
| GTIN                                 | 4046356762625 |
| Weight per piece (including packing) | 17.27 g       |
| Weight per piece (excluding packing) | 17.27 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| Product family        | UT                          |
| Area of application   | Railway industry            |
|                       | Machine building            |
|                       | Plant engineering           |
|                       | Process industry            |
| Number of connections | 2                           |
| Number of rows        | 1                           |
| 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 | 2                  |
| Nominal cross section           | 10 mm <sup>2</sup> |

### Level 1 above 1 below 1

|   |   |
|---|---|
| Connection method   | Screw connection                            |
| Screw thread  | M4  |
| Tightening torque   | 1.5 ... 1.8 Nm                              |
| Stripping length  | 10 mm                                       |
| Internal cylindrical gage   | A6  |
| 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> ... 16 mm <sup>2</sup>  |
| Conductor cross-section, flexible [AWG]   | 20 ... 6 (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> ... 10 mm <sup>2</sup>  |
| 2 conductors with same cross section, rigid   | 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> ... 6 mm <sup>2</sup>   |
| Nominal cross section   | 10 mm <sup>2</sup>                          |

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|                      |  |
|----------------------|--|
| Nominal current      | 57 A   |
| Maximum load current | 76 A (with 16 mm <sup>2</sup> conductor cross-section)   |
| Nominal voltage      | 1000 V   |
| Note                 | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |

## Ex data

### Rated data (ATEX/IECEx)

|   |  |
|---|--|
| Identification                                      | ⊕ II 2 GD Ex eb IIC Gb   |
| Operating temperature range                         | -60 °C ... 110 °C  |
| Ex-certified accessories                            | 3047028 D-UT 2,5/10<br>1205066 SZS 1,0X4,0 VDE<br>3022276 CLIPFIX 35-5<br>3022218 CLIPFIX 35 |
| List of bridges                                     | Plug-in bridge / FBS 2-10 / 3005947<br>Plug-in bridge / FBS 5-10 / 3005948                   |
| Bridge data   | 54 A (10 mm <sup>2</sup> )   |
| Ex temperature increase<br>for bridging with bridge | 40 K (60.1 A / 10 mm <sup>2</sup> )<br>690 V   |
| Rated insulation voltage<br>output                  | 630 V<br>(Permanent)   |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 690 V   |
| Rated current        | 54 A    |
| Maximum load current | 69 A    |
| Contact resistance   | 0.16 mΩ |

### Ex connection data General

|   |  |
|---|--|
| Torque range  | 1.5 Nm ... 1.8 Nm                          |
| Nominal cross section                                 | 10 mm <sup>2</sup>                         |
| Rated cross section AWG                               | 8  |
| Connection capacity rigid                             | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Connection capacity AWG                               | 20 ... 6                                   |
| Connection capacity flexible                          | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Connection capacity AWG                               | 20 ... 8                                   |
| 2 conductors with same cross section, solid           | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| 2 conductors with the same cross-section AWG rigid    | 20 ... 12                                  |
| 2 conductors with same cross section, stranded        | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| 2 conductors with the same cross-section AWG flexible | 20 ... 12                                  |

## Dimensions

|                 |         |
|-----------------|---------|
| Width           | 10.2 mm |
| End cover width | 2.2 mm  |
| Height          | 47.7 mm |

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|                    |         |
|--------------------|---------|
| Depth              | 46.9 mm |
| Depth on NS 35/7,5 | 47.5 mm |
| Depth on NS 35/15  | 55 mm   |

## Material specifications

|   |                      |
|---|----------------------|
| Color   | multicolored (RAL -) |
|   | black (RAL 9005)     |
|   | yellow (RAL 1018)    |
| 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

|                       |             |
|-----------------------|-------------|
| 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                         |
|   | Test passed                         |
| Short-time withstand current 10 mm <sup>2</sup> | 1.2 kA                              |
| Result  | Test passed                         |

### Power-frequency withstand voltage

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

## Mechanical properties

### Mechanical data

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

## Mechanical tests

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## Mechanical strength

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

## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 35       |
| Test force setpoint     | 5 N         |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross-section/weight | 0.5 mm <sup>2</sup> / 0.3 kg |
|                                | 10 mm <sup>2</sup> / 2 kg    |
|                                | 16 mm <sup>2</sup> / 2.9 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, 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  |

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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/3047660>

**DNV**

Approval ID: TAE00001S9



**CSA**

Approval ID: 13631



**cULus Recognized**

Approval ID: E60425



**CSA**

Approval ID: 13631



**cULus Recognized**

Approval ID: E60425



**ATEX**

Approval ID: KEMA04ATEX2048U

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine                    |                       |                       |                   |                             |
| Only flexible conductors | 690 V                 | 54 A                  | -                 | 0.5 - 10                    |
| Only rigid conductors    | 690 V                 | 69 A                  | -                 | 0.5 - 16                    |



**EAC Ex**

Approval ID: KZ 7500525010101950



**IECEX**

Approval ID: IECEX KEM 06.0027U

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine                    |                       |                       |                   |                             |
| Only flexible conductors | 690 V                 | 54 A                  | -                 | 0.5 - 10                    |
| Only rigid conductors    | 690 V                 | 69 A                  | -                 | 0.5 - 16                    |

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**CCC**

Approval ID: 2020322313000622



**UKCA-EX**

Approval ID: DEKRA 21UKEX0304U



**cUL Recognized**

Approval ID: E192998

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 600 V                 | 65 A                  | 20 - 6            | -                           |



**UL Recognized**

Approval ID: E192998

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 600 V                 | 65 A                  | 20 - 6            | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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                                | 9d60b295-a05a-413d-9998-68a9621ac450 |

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