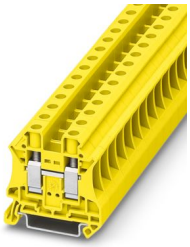
# UT 10 YE - Feed-through terminal block

3046294

https://www.phoenixcontact.com/us/products/3046294

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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$^2$, cross section: 0.5 mm$^2$ - 16 mm$^2$, mounting type: NS 35/7,5, NS 35/15, color: 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 | 3046294 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE01 |
| Product key | BE1111 |
| GTIN | 4017918975630 |
| Weight per piece (including packing) | 17.6 g |
| Weight per piece (excluding packing) | 17.6 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Feed-through terminal block |
| Product family | UT |
| 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 mm² |

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 mm² ... 16 mm² |
| Cross section AWG | 20 ... 6 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm² ... 16 mm² |
| Conductor cross-section, flexible [AWG] | 20 ... 6 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 10 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 10 mm² |
| 2 conductors with same cross section, rigid | 0.5 mm² ... 4 mm² |
| 2 conductors with same cross section, flexible | 0.5 mm² ... 4 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm² ... 2.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 6 mm² |
| Nominal cross section | 10 mm² |
| Nominal current | 57 A |
| Maximum load current | 76 A (with 16 mm² 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 | Ⓔx II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C |
| Ex-certified accessories | 3047028 D-UT 2,5/10 |
| | 1205066 SZS 1,0X4,0 VDE |
| | 3022276 CLIPFIX 35-5 |
| | 3022218 CLIPFIX 35 |
| List of bridges | Plug-in bridge / FBS 2-10 / 3005947 |
| | Plug-in bridge / FBS 5-10 / 3005948 |
| Bridge data | 54 A (10 mm²) |
| Ex temperature increase | 40 K (60.1 A / 10 mm²) |
| for bridging with bridge | 690 V |
| Rated insulation voltage | 630 V |
| output | (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 mm² |
| Rated cross section AWG | 8 |
| Connection capacity rigid | 0.5 mm² ... 16 mm² |
| Connection capacity AWG | 20 ... 6 |
| Connection capacity flexible | 0.5 mm² ... 10 mm² |
| Connection capacity AWG | 20 ... 8 |
| 2 conductors with same cross section, solid | 0.5 mm² ... 4 mm² |
| 2 conductors with the same cross-section AWG rigid | 20 ... 12 |
| 2 conductors with same cross section, stranded | 0.5 mm² ... 4 mm² |
| 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 |
| Depth on NS 35/7,5 | 47.5 mm |
| Depth on NS 35/15 | 55 mm |

## Material specifications

| | |
|---|---|
| Color | 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 ≤ 45 K |
| Result | Test passed |
| | Test passed |
| Short-time withstand current 10 mm² | 1.2 kA |
| Result | Test passed |

### Power-frequency withstand voltage

| | |
|---|---|
| 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 | 5 N |

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

Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.5 mm² / 0.3 kg |
| | 10 mm² / 2 kg |
| | 16 mm² / 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

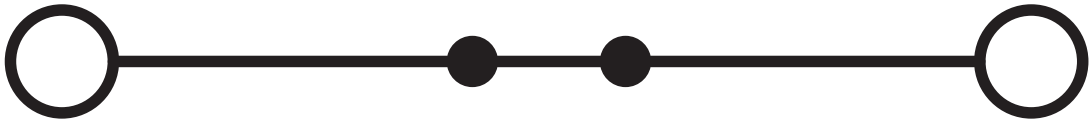
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |

## Mounting

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

## Drawings

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3046294

**DNV**
Approval ID: TAE00001S9

**CSA**
Approval ID: 13631

**IECEE CB Scheme**
Approval ID: DE1-63061_M1

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 1000 V | 57 A | - | 0.5 - 10 |

**cULus Recognized**
Approval ID: E60425

**VDE Zeichengenehmigung**
Approval ID: 40013658

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 1000 V | 57 A | - | 0.5 - 10 |

**ATEX**
Approval ID: KEMA04ATEX2048U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| 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 $mm^2$ |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| keine | | | | |
| Only flexible conductors | 690 V | 54 A | - | 0.5 - 10 |
| Only rigid conductors | 690 V | 69 A | - | 0.5 - 16 |

**CCC**
Approval ID: 2020322313000622

**UKCA-EX**
Approval ID: DEKRA 21UKEX0304U

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000897 |

### UNSPSC

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

## 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 | a1a3b743-4dbe-4df0-b530-f839e9fe939d |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.003 kg CO2e |


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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com