

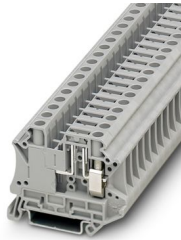
UT 6-TG P/P-EX - Disconnect terminal block



3073870

<https://www.phoenixcontact.com/us/products/3073870>

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Disconnect terminal block, Current and voltage are determined by the plug used., With test socket screws for insertion of test plugs, nom. voltage: 500 V, nominal current: 20 A, connection method: Screw connection, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 10 mm², mounting: NS 35/7,5, NS 35/15, color: gray

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
- Individual and easy assembly with isolating plug, fuse plug, component connector, and feed-through connector

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3073870 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE01 |
| Product key | BE1132 |
| GTIN | 4046356919203 |
| Weight per piece (including packing) | 18.135 g |
| Weight per piece (excluding packing) | 18.135 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|-----------------------|---------------------------|
| Product type | Disconnect terminal block |
| Product family | UT |
| Area of application | Machine building |
| | Plant engineering |
| Number of connections | 2 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.31 W |

Connection data

| | |
|---------------------------------|-------------------|
| Number of connections per level | 2 |
| Nominal cross section | 6 mm ² |

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 | A5 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.2 mm ² ... 10 mm ² |
| Cross section AWG | 24 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm ² ... 10 mm ² |
| Conductor cross-section, flexible [AWG] | 24 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm ² ... 10 mm ² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm ² ... 6 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm ² ... 6 mm ² |
| 2 conductors with same cross section, rigid | 0.2 mm ² ... 2.5 mm ² |
| 2 conductors with same cross section, flexible | 0.2 mm ² ... 2.5 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 4 mm ² |
| Nominal cross section | 2.5 mm ² |

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| | |
|----------------------|--|
| Nominal current | 20 A |
| Maximum load current | 20 A (with 10 mm ² conductor cross-section) |
| Nominal voltage | 500 V |

Ex data

Rated data (ATEX/IECEX)

| | |
|-------------------------------------|------------------------------------|
| Identification | Ⓜ II 3 G Ex ec IIC Gc |
| Operating temperature range | -50 °C ... 130 °C |
| Ex-certified accessories | 3047183 ATP-UT-TWIN |
| | 3046499 P-FU 6,3X32-EX |
| | 3046509 P-FU 6,3X32 LED 24-EX |
| | 3046512 P-FU 6,3X32 LED 60-EX |
| | 3046525 P-FU 6,3X32 LA 250-EX |
| | 3022276 CLIPFIX 35-5 |
| | 3022218 CLIPFIX 35 |
| List of bridges | 1205066 SZS 1,0X4,0 VDE |
| | Plug-in bridge / FBS 2-8 / 3030284 |
| | Plug-in bridge / FBS 3-8 / 3030297 |
| | Plug-in bridge / FBS 4-8 / 3030307 |
| | Plug-in bridge / FBS 5-8 / 3030310 |
| Plug-in bridge / FBS 10-8 / 3030323 | |
| Bridge data | 6.3 A / 6 mm ² |
| output | (Permanent) |

Ex level General

| | |
|----------------------|-------|
| Rated voltage | 250 V |
| Rated current | 6.3 A |
| Maximum load current | 6.3 A |

Ex connection data General

| | |
|--|---|
| Torque range | 1.5 Nm ... 1.8 Nm |
| Nominal cross section | 6 mm ² |
| Rated cross section AWG | 8 |
| Connection capacity rigid | 0.2 mm ² ... 10 mm ² |
| Connection capacity AWG | 24 ... 8 |
| Connection capacity flexible | 0.2 mm ² ... 6 mm ² |
| Connection capacity AWG | 24 ... 8 |
| 2 conductors with same cross section, solid | 0.2 mm ² ... 2.5 mm ² |
| 2 conductors with the same cross-section AWG rigid | 24 ... 12 |
| 2 conductors with same cross section, stranded | 0.2 mm ² ... 2.5 mm ² |
| 2 conductors with the same cross-section AWG flexible | 24 ... 12 |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 0.2 mm ² |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 6 mm ² |

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| | |
|--|-----------|
| Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG | 24 ... 12 |
|--|-----------|

Dimensions

| | |
|--------------------|---------|
| Width | 8.2 mm |
| Height | 57.8 mm |
| Depth on NS 35/7,5 | 47.5 mm |
| Depth on NS 35/15 | 55 mm |

Material specifications

| | |
|---|-----------------|
| Color | gray (RAL 7042) |
| 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 |

Mechanical properties

Mechanical data

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

Environmental and real-life conditions

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 |
|----------------------------------|---------------|

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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/3073870>

 **CSA**
Approval ID: 13631


 **CSA**
Approval ID: 13631


 **cUL Recognized**
Approval ID: E192998


| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 250 V | 6.3 A | 24 - 8 | 24 - 8 |

 **UL Recognized**
Approval ID: E192998

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 250 V | 6.3 A | 24 - 8 | - |


 **CCC**
Approval ID: 2020322313000632

 **UKCA-EX**
Approval ID: UL22UKEX2452U

 **EAC Ex**
Approval ID: KZ 7500525010101950

 **IECEx**
Approval ID: IECExUL13.0007U

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 250 V | 6.3 A | - | 0.2 - 10 |

 **ATEX**
Approval ID: DEMKO14ATEX1353U


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| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 250 V | 6.3 A | - | 0.2 - 10 |

|  CSA Approval ID: 2725780 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | | | | |
| | 250 V | 6.3 A | 24 - 8 | - |
| C | | | | |
| | 250 V | 6.3 A | 24 - 8 | - |

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Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | 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 | 618cbc78-d374-4b56-9d4c-9c48f34cbb07 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.228 kg CO2e |
|---------|---------------|

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