

UT 4-TG-EX - Disconnect terminal block



3046143

<https://www.phoenixcontact.com/us/products/3046143>

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Disconnect terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 20 A, connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.14 mm² - 6 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 | 3046143 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE01 |
| Product key | BE1132 |
| GTIN | 4046356919180 |
| Weight per piece (including packing) | 13.24 g |
| Weight per piece (excluding packing) | 13.24 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Notes

| | |
|---------|------------------------------------------------------|
| General | Current and voltage are determined by the plug used. |
|---------|------------------------------------------------------|

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 | 1.02 W |

Connection data

| | |
|---------------------------------|-------------------|
| Number of connections per level | 2 |
| Nominal cross section | 4 mm ² |

Level 1 above 1 below 1

| | |
|-------------------------------------------------------------------------------------|----------------------------------------------|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 9 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.14 mm ² ... 6 mm ² |
| Cross section AWG | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm ² ... 6 mm ² |
| Conductor cross-section, flexible [AWG] | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm ² ... 6 mm ² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.14 mm ² ... 4 mm ² |
| 2 conductors with same cross section, rigid | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.14 mm ² ... 1.5 mm ² |

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| | |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 2.5 mm ² |
| Nominal cross section | 4 mm ² |
| Nominal current | 20 A |
| Maximum load current | 20 A (with 6 mm ² conductor cross-section) 20 A (with 6 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 3036807 P-FU 5X20-EX 3036821 P-FU 5X20 LED 24-EX 3036823 P-FU 5X20 LED 60-EX 3036836 P-FU 5X20 LA 250-EX 3036806 P-FU 5X20 3036819 P-FU 5X20 LED 24 3036822 P-FU 5X20 LED 60 3046524 P-FU 6,3X32 LA 250 3022276 CLIPFIX 35-5 3022218 CLIPFIX 35 1205053 SZS 0,6X3,5 |
| List of bridges | Plug-in bridge / FBS 2-6 / 3030336 Plug-in bridge / FBS 3-6 / 3030242 Plug-in bridge / FBS 4-6 / 3030255 Plug-in bridge / FBS 5-6 / 3030349 Plug-in bridge / FBS 10-6 / 3030271 Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data | 6.3 A / 4 mm ² |
| Rated insulation voltage | 250 V |
| output | (Permanent) |

Ex level General

| | |
|----------------------|-------|
| Rated voltage | 275 V |
| Rated current | 6.3 A |
| Maximum load current | 6.3 A |

Ex connection data General

| | |
|---------------------------|--------------------------------------------|
| Torque range | 0.6 Nm ... 0.8 Nm |
| Nominal cross section | 4 mm ² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.14 mm ² ... 6 mm ² |
| Connection capacity AWG | 26 ... 10 |

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| | |
|--------------------------------------------------------------------------------------|----------------------------------------------|
| Connection capacity flexible | 0.14 mm ² ... 6 mm ² |
| Connection capacity AWG | 26 ... 12 |
| 2 conductors with same cross section, solid | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross-section AWG rigid | 26 ... 16 |
| 2 conductors with same cross section, stranded | 0.14 mm ² ... 1.5 mm ² |
| 2 conductors with the same cross-section AWG flexible | 26 ... 16 |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 0.14 mm ² |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 4 mm ² |
| Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG | 26 ... 12 |

Dimensions

| | |
|--------------------|---------|
| Width | 6.2 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)) | 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 |

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 |

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| | |
|------------------------------------------|---------------|
| 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/3046143>

|  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 | 26 - 10 | 26 - 10 |

|  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 | 26 - 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 | 26 - 10 | - |
| C | | | | |
| | 250 V | 6.3 A | 26 - 10 | - |

|  UKCA-EX Approval ID: UL22UKEX2452U | | | | |
|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  EAC Ex Approval ID: KZ 7500525010101950 | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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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 | 6237a421-a38c-4ab1-9860-215b797aa61e |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.035 kg CO2e |
|---------|---------------|

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