

# UT 4-MT-EX - Knife-disconnect terminal block



3046141

<https://www.phoenixcontact.com/us/products/3046141>

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Knife-disconnect terminal block, nom. voltage: 500 V, nominal current: 20 A, connection method: Screw connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 6 mm<sup>2</sup>, 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
- Convenient separation of circuits through the implementation of knife disconnection
- 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
- Maximum efficiency in the smallest space - thanks to integrated level bridging, the connections are connected across levels

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3046141       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1131        |
| GTIN                                 | 4046356919173 |
| Weight per piece (including packing) | 13.61 g       |
| Weight per piece (excluding packing) | 13.58 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 | 1.02 W |

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Number of connections per level | 2                 |
| Nominal cross section           | 4 mm <sup>2</sup> |

### 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 <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Cross section AWG                                                                         | 26 ... 10 (converted acc. to IEC)            |
| Conductor cross-section flexible                                                          | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Conductor cross-section, flexible [AWG]                                                   | 26 ... 10 (converted acc. to IEC)            |
| Conductor cross-section flexible ultrasound-compressed                                    | 0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Conductor cross-section, flexible [AWG] ultrasound-compressed                             | 22 ... 10 (converted acc. to IEC)            |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| 2 conductors with same cross section, rigid                                               | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with same cross section, flexible                                            | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.14 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> ... 2.5 mm <sup>2</sup>  |
| Nominal cross section                                                                     | 2.5 mm <sup>2</sup>                          |

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|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Nominal current      | 20 A                                                  |
| Maximum load current | 20 A (with 6 mm <sup>2</sup> 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 ... 125 °C                                                                                                                                                                                                                  |
| Operating cycles of the disconnect knife | 100                                                                                                                                                                                                                                |
| Ex-certified accessories                 | 3247954 S-MT<br>3047183 ATP-UT-TWIN<br>1205053 SZS 0,6X3,5<br>3022276 CLIPFIX 35-5<br>3022218 CLIPFIX 35                                                                                                                           |
| List of bridges                          | Plug-in bridge / FBS 2-6 / 3030336<br>Plug-in bridge / FBS 3-6 / 3030242<br>Plug-in bridge / FBS 4-6 / 3030255<br>Plug-in bridge / FBS 5-6 / 3030349<br>Plug-in bridge / FBS 10-6 / 3030271<br>Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data                              | 20 A / 4 mm <sup>2</sup>                                                                                                                                                                                                           |
| output                                   | (Permanent)                                                                                                                                                                                                                        |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 500 V   |
| Rated current        | 16 A    |
| Maximum load current | 16 A    |
| Contact resistance   | 0.26 mΩ |

### Ex connection data General

|                                                                            |                                              |
|----------------------------------------------------------------------------|----------------------------------------------|
| Torque range                                                               | 0.6 Nm ... 0.8 Nm                            |
| Nominal cross section                                                      | 4 mm <sup>2</sup>                            |
| Rated cross section AWG                                                    | 12                                           |
| Connection capacity rigid                                                  | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Connection capacity AWG                                                    | 26 ... 10                                    |
| Connection capacity flexible                                               | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Connection capacity AWG                                                    | 26 ... 12                                    |
| 2 conductors with same cross section, solid                                | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG rigid                         | 26 ... 16                                    |
| 2 conductors with same cross section, stranded                             | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG flexible                      | 26 ... 16                                    |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup>                         |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 4 mm <sup>2</sup>                            |

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|                                                                                      |           |
|--------------------------------------------------------------------------------------|-----------|
| 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 | 49.1 mm |
| Depth on NS 35/15  | 56.6 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     |
| 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          |

## 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



# UT 4-MT-EX - Knife-disconnect terminal block





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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3046141>

|  <b>cUL Recognized</b><br>Approval ID: E192998 |                       |                       |                   |                      |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                                                                                                           |                       |                       |                   |                      |
|                                                                                                                                 | 500 V                 | 16 A                  | 26 - 10           | 26 - 10              |


|  <b>UL Recognized</b><br>Approval ID: E192998 |                       |                       |                   |                      |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                                                                                                          |                       |                       |                   |                      |
|                                                                                                                                | 500 V                 | 16 A                  | 26 - 10           | -                    |

|  <b>IECEx</b><br>Approval ID: IECExUL13.0007U |                       |                       |                   |                      |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                                                                                                            |                       |                       |                   |                      |
|                                                                                                                                  | 500 V                 | 16 A                  | -                 | 0.14 - 6             |

|  <b>ATEX</b><br>Approval ID: DEMKO14ATEX1353U |                       |                       |                   |                      |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                                                                                                            |                       |                       |                   |                      |
|                                                                                                                                  | 500 V                 | 16 A                  | -                 | 0.14 - 6             |

|  <b>UKCA-EX</b><br>Approval ID: UL22UKEX2452U |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>EAC Ex</b><br>Approval ID: KZ 7500525010101950 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>CSA</b><br>Approval ID: 2725780 |                       |                       |                   |                      |
|------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
|                                                                                                                        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B                                                                                                                      |                       |                       |                   |                      |
|                                                                                                                        | 500 V                 | 16 A                  | 26 - 10           | -                    |
| C                                                                                                                      |                       |                       |                   |                      |

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|  |       |      |         |   |
|--|-------|------|---------|---|
|  | 500 V | 16 A | 26 - 10 | - |
|--|-------|------|---------|---|

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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                                | 75af24e9-3e96-414f-8072-92f052595478 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.038 kg CO2e |
|---------|---------------|

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