# MT 1,5-TWIN BU - Micro terminal

3025532

https://www.phoenixcontact.com/us/products/3025532

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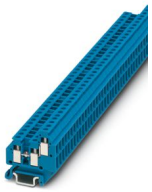

Micro terminal, nom. voltage: 400 V, nominal current: 17.5 A, connection method: Screw connection, Rated cross section: 1.5 mm$^2$, cross section: 0.14 mm$^2$ - 1.5 mm$^2$, mounting type: NS 15, color: blue

## Your advantages

- Design width of just 4.2 mm
- Nominal cross section of 1.5 mm²
- Clear arrangement thanks to marking of all terminal points
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Easy potential distribution thanks to standardized screw bridges in the terminal center
- Snap-on foot for NS 15 DIN rails

## Commercial data

| | |
|---|---|
| Item number | 3025532 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE12 |
| Product key | BE1261 |
| Catalog page | Page 554 (C-1-2019) |
| GTIN | 4017918154660 |
| Weight per piece (including packing) | 3.527 g |
| Weight per piece (excluding packing) | 3.527 g |
| Customs tariff number | 85369010 |
| Country of origin | TR |



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# Technical data

## Product properties

| | |
|---|---|
| Product type | Miniature terminal block |
| Number of connections | 3 |
| Number of rows | 2 |
| Potentials | 1 |

### Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 4 kV |
| Maximum power dissipation for nominal condition | 0.56 W |

## Connection data

| | |
|---|---|
| Number of connections per level | 3 |
| Nominal cross section | 1.5 mm² |
| Screw thread | M2 |
| Tightening torque | 0.22 ... 0.25 Nm |
| Stripping length | 6 mm |
| Internal cylindrical gage | A1 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section rigid | 0.14 mm² ... 1.5 mm² |
| Cross section AWG | 26 ... 16 (converted acc. to IEC) |
| Conductor cross section flexible | 0.14 mm² ... 1.5 mm² |
| Conductor cross section, flexible [AWG] | 26 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 0.75 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.25 mm² ... 0.75 mm² |
| 2 conductors with same cross section, solid | 0.14 mm² ... 0.5 mm² |
| 2 conductors with same cross section, flexible | 0.14 mm² ... 0.5 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.25 mm² ... 0.34 mm² |
| Nominal current | 17.5 A |
| Maximum load current | 17.5 A (in case of a 1.5 mm² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.) |
| Nominal voltage | 400 V |
| Nominal cross section | 1.5 mm² |

## Dimensions

| | |
|---|---|
| Width | 4.2 mm |
| End cover width | 1 mm |
| Height | 28 mm |



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| | |
|---|---|
| Depth on NS 15 | 30 mm |

## Material specifications

| | |
|---|---|
| Color | blue (RAL 5015) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °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 |
| 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 | 4.8 kV |
| Result | Test passed |

### Temperature-rise test

| | |
|---|---|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 1.5 mm² | 0.18 kA |
| Result | Test passed |

### Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 1.89 kV |
| Result | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Attachment on the carrier

| | |
|---|---|
| DIN rail/fixing support | NS 15 |
| Result | Test passed |

## Environmental and real-life conditions

### Needle-flame test

| | |
|---|---|
| Time of exposure | 30 s |



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

Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 (m/s²)²/Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|---|---|
| Pulse shape | Half-sine |
| Acceleration | 5g |
| Shock duration | 30 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| 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 15 |



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## Approvals

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**DNV**
Approval ID: TAE00001CT

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 300 V | 15 A | 28 - 14 | - |

**EAC**
Approval ID: EACKZ 08593

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| Use group B | | | | |
| | 300 V | 15 A | 30 - 14 | - |
| Use group F | | | | |
| | 400 V | 15 A | 30 - 14 | - |
| Use group D | | | | |
| | 300 V | 10 A | 30 - 14 | - |

**CCA**
Approval ID: NTR-NL 4238

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 400 V | - | - | - 1.5 |

**LR**
Approval ID: LR2041789TA-02

**BV**
Approval ID: 07774/E0 BV




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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250102 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC000897 |

### UNSPSC

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



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## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

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