# TB 4-TWIN I - Multi-conductor terminal block

3246502

https://www.phoenixcontact.com/gb/products/3246502

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Multi-conductor terminal block, nom. voltage: 500 V, nominal current: 32 A, number of connections: 3, number of positions: 1, connection method: Screw connection, Rated cross section: 4 mm$^2$, cross section: 0.5 mm$^2$ - 4 mm$^2$, mounting type: NS 35/7,5, NS 35/15, NS 32, color: dark gray

## Commercial data

| | |
|---|---|
| Item number | 3246502 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BEK212 |
| Product key | BEK212 |
| GTIN | 4046356608695 |
| Weight per piece (including packing) | 11.117 g |
| Weight per piece (excluding packing) | 11.117 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

# Technical data

## Notes

### General

| | |
|---|---|
| Note | The max. load current must not be exceeded by the total current of all connected conductors. |

## Product properties

| | |
|---|---|
| Product type | Multi-conductor terminal block |
| Product family | TB |
| Number of positions | 1 |
| Number of connections | 3 |
| 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 | 3 |
| Nominal cross section | 4 mm² |
| Rated cross section AWG | 10 |
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.5 ... 0.6 Nm |
| Stripping length | 8 mm |
| Internal cylindrical gage | A3 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.5 mm² ... 4 mm² |
| Cross section AWG | 20 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm² ... 4 mm² |
| Conductor cross-section, flexible [AWG] | 20 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 2.5 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 2.5 mm² |
| Cross-section with insertion bridge, rigid | 0.5 mm² ... 2.5 mm² |
| Cross-section with insertion bridge, flexible | 0.5 mm² ... 2.5 mm² |
| Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve | 0.5 mm² (1.5 mm²) |
| Cross-section with insertion bridge, flexible, with ferrule with | 0.5 mm² ... 0.75 mm² |

| | |
|---|---|
| plastic sleeve | |
| 2 conductors with same cross section, rigid | 0.5 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG rigid | 20 ... 14 (converted acc. to IEC) |
| 2 conductors with same cross section, flexible | 0.5 mm² ... 1.5 mm² |
| 2 conductors with the same cross-section AWG flexible | 20 ... 14 (converted acc. to IEC) |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal cross section | 4 mm² |
| Nominal current | 32 A |
| Maximum load current | 32 A (with 4 mm² conductor cross-section) |
| Nominal voltage | 500 V |

## Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| End cover width | 1.5 mm |
| Height | 50.5 mm |
| Depth on NS 32 | 52 mm |
| Depth on NS 35/7,5 | 47 mm |
| Depth on NS 35/15 | 54.5 mm |

## Material specifications

| | |
|---|---|
| Color | traffic gray B (RAL 7043) |
| 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 | 7.3 kV |
| Result | Test passed |

Temperature-rise test

| | |
|---|---|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 4 mm² | 0.48 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

Mechanical strength

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

Attachment on the carrier

| | |
|---|---|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint | 1 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 |
| | 4 mm² / 0.9 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

| | |
|---|---|
| | NS 35/7,5 |

| | |
|---|---|
| Mounting type | NS 35/15 |
| | NS 32 |

## Drawings

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/3246502

**EAC**
Approval ID: KZ7500651131219505

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 20 A | 20 - 12 | - |
| C | | | | |
| | 300 V | 20 A | 20 - 12 | - |
| D | | | | |
| | 600 V | 5 A | 20 - 12 | - |

## 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, 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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