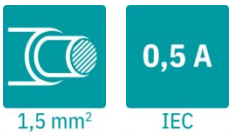
# QTTCB 1,5-DIO/O-U - Component terminal block

3206241

https://www.phoenixcontact.com/us/products/3206241

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Component terminal block, The max. current is determined by the diode. Installed: Diode 1N 4007, reverse voltage: 1300 V, maximum continuous current: 0.5 A., with integrated diode, nominal current: 0.5 A, connection method: Quick connection, 1st and 2nd level, Rated cross section: 1.5 $mm^2$, cross section: 0.25 $mm^2$ - 1.5 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Ground terminal blocks of the same shape are available

## Commercial data

| | |
|---|---|
| Item number | 3206241 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE03 |
| Product key | BE3172 |
| GTIN | 4017918936228 |
| Weight per piece (including packing) | 17.2 g |
| Weight per piece (excluding packing) | 17.2 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

# Technical data

## Notes

| | |
|---|---|
| General | The max. current is determined by the diode. Installed: Diode 1N 4007, reverse voltage: 1300 V, maximum continuous current: 0.5 A. |

## Product properties

| | |
|---|---|
| Product type | Component terminal block |
| Number of positions | 2 |
| Number of connections | 4 |
| Number of rows | 2 |

### Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| Rated insulation voltage | 500 V |
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 0.56 W |

## Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Frequency of connections with the same cross section | 100 |
| Nominal cross section | 1.5 mm² |

### 1st and 2nd level

| | |
|---|---|
| Connection method | Quick connection |
| Material wire insulation | PVC / PE |
| Conductor cross-section rigid | 0.25 mm² ... 1.5 mm² |
| Cross section AWG | 24 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.25 mm² ... 1.5 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 16 (converted acc. to IEC) |
| Nominal cross section | 1.5 mm² |
| Nominal current | 0.5 A |
| Maximum load current | 0.5 A |
| Rated insulation voltage | 500 V (to the neighboring terminal block) |
| Rated operating voltage | 250 V (freely adjustable) |
| Component type | Diode BY133G |
| Reverse voltage | 1300 V |

## Dimensions

| | |
|---|---|
| Width | 5.2 mm |
| End cover width | 2.2 mm |

| | |
|---|---|
| Height | 99.6 mm |
| Depth on NS 35/7,5 | 49.9 mm |
| Depth on NS 35/15 | 57.4 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 |
| 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

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

### Power-frequency withstand voltage

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

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### 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 | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Ambient conditions

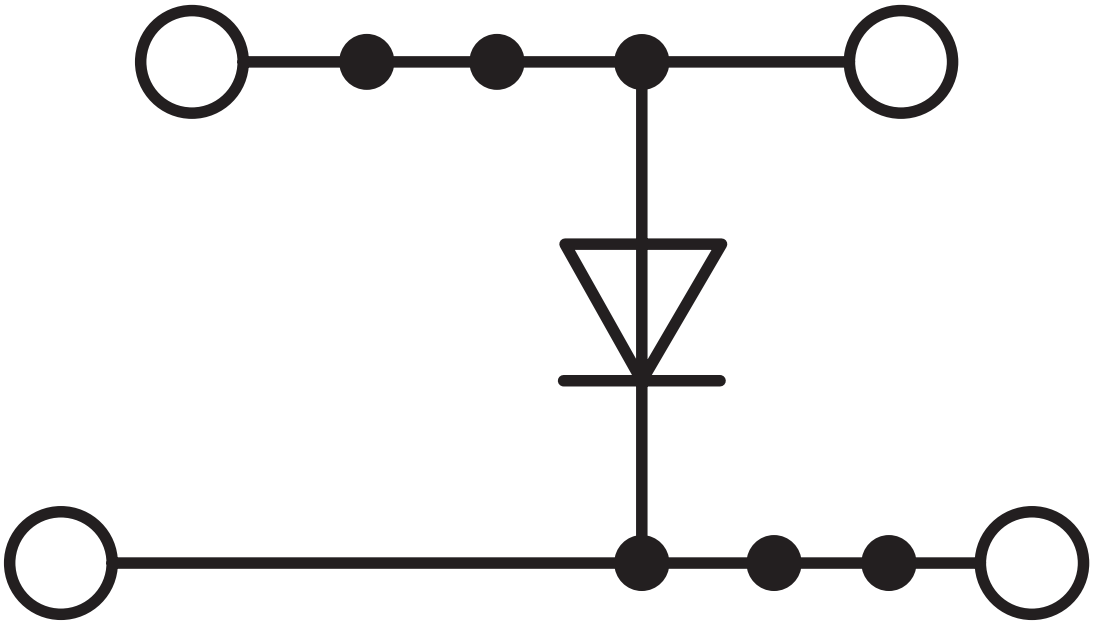
| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| 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 % |

## Mounting

| | |
|---|---|
| Mounting type | NS 35/7,5 |
| | NS 35/15 |

## Drawings

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3206241

**CSA**
Approval ID: 158887

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 10 A | 24 - 16 | - |
| C | | | | |
| | 300 V | 10 A | 24 - 16 | - |
| D | | | | |
| | 600 V | 10 A | 24 - 16 | - |

**EAC**
Approval ID: RU C-DE.BL08.B.00539

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 10 A | 24 - 16 | - |
| C | | | | |
| | 300 V | 10 A | 24 - 16 | - |
| D | | | | |
| | 600 V | 5 A | 24 - 16 | - |

**NK**
Approval ID: 09 ME 139

**ABS**
Approval ID: 22-2196825-PDA

**DNV**
Approval ID: TAE000014H

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250114 |
| ECLASS-15.0 | 27250114 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000898 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

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 | c46b7b45-e391-4b9e-bd66-d54ead6bbb0a |

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