

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



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<sup>2</sup>, cross section: 0.25 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, 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

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## 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.
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### 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 mm <sup>2</sup>

### 1st and 2nd level

Connection method	Quick connection
Material wire insulation	PVC / PE
Conductor cross-section rigid	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section AWG	24 ... 16 (converted acc. to IEC)
Conductor cross-section flexible	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	24 ... 16 (converted acc. to IEC)
Nominal cross section	1.5 mm <sup>2</sup>
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

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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
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### Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## 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	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /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
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Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis
Result	Test passed

## Ambient conditions

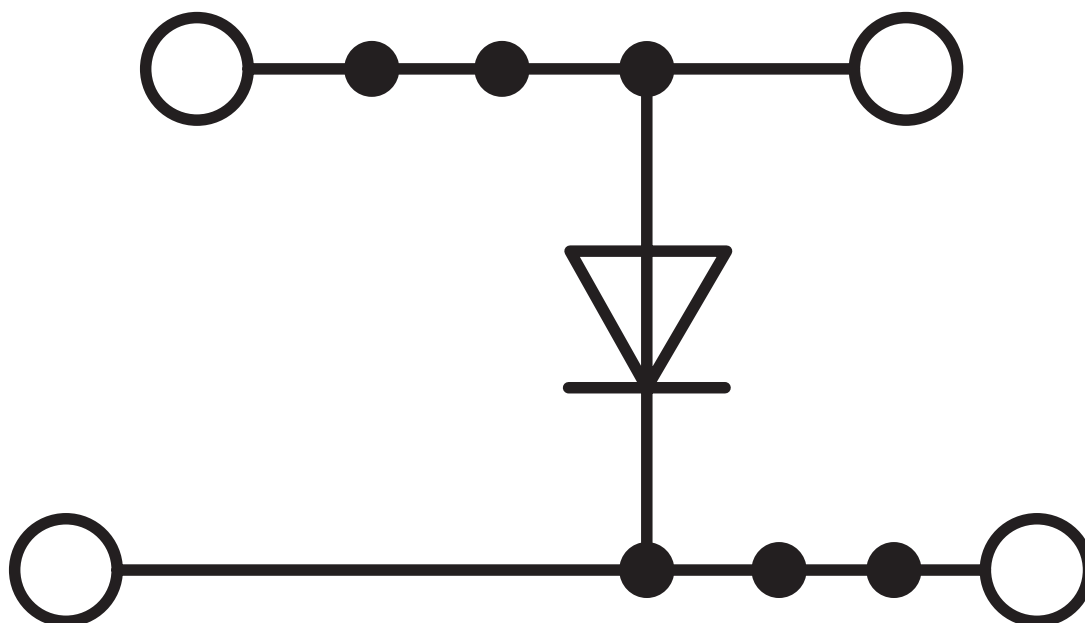
Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)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



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## Approvals

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 <b>CSA</b> Approval ID: 158887				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	300 V	10 A	24 - 16	-
C	300 V	10 A	24 - 16	-
D	600 V	10 A	24 - 16	-

 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00539				
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 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	300 V	10 A	24 - 16	-
C	300 V	10 A	24 - 16	-
D	600 V	5 A	24 - 16	-

 <b>ClassNK</b> Approval ID: 09 ME 139				
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<b>ABS</b> Approval ID: 22-2196825-PDA				
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<b>DNV</b> Approval ID: TAE000014H				
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## Classifications

### ECLASS

ECLASS-13.0	27250114
ECLASS-15.0	27250114

### ETIM

ETIM 10.0	EC000898
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### UNSPSC

UNSPSC 21.0	39121400
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## 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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