

# QTTCB 1,5 BU - Double-level terminal block



3205129

<https://www.phoenixcontact.com/us/products/3205129>

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Double-level terminal block, nom. voltage: 500 V, nominal current: 17.5 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: blue

## Your advantages

- Fast conductor connection thanks to the elimination of conductor pretreatment
- Large-area, gas-tight contact thanks to the automated cutting of the wire insulation
- High contact quality and vibration resistance thanks to the use of high-quality spring contact material
- Secure wiring thanks to lockable swivel lever
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- High space savings thanks to the compact integration of two separate circuits in a single terminal block

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3205129       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE03          |
| Product key                          | BE3114        |
| GTIN                                 | 4017918933104 |
| Weight per piece (including packing) | 17 g          |
| Weight per piece (excluding packing) | 17 g          |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                            |
|-----------------------|----------------------------|
| Product type          | Multi-level terminal block |
| Product family        | QTC                        |
| Area of application   | Railway industry           |
|                       | Machine building           |
|                       | Plant engineering          |
|                       | Process industry           |
| Number of connections | 4                          |
| Number of rows        | 2                          |
| Potentials            | 2                          |

### Insulation characteristics

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

### Electrical properties

|   |        |
|---|--------|
| 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  |
| Connection in acc. with standard                               | IEC 60947-7-1   |
| 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)                         |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>              |
| Nominal cross section  | 1.5 mm <sup>2</sup>                                       |
| Nominal current  | 17.5 A  |
| Maximum load current   | 17.5 A (with 1.5 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage  | 500 V   |

### Ex data

#### Rated data (ATEX/IECEx)

|                             |                        |
|-----------------------------|------------------------|
| Identification              | ⊕ II 2 GD Ex eb IIC Gb |
| Operating temperature range | -45 °C ... 90 °C       |

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|  |                                     |
|--|-------------------------------------|
| Ex-certified accessories                           | 3205187 D-QTTCB 1,5                 |
|  | 3206238 ATP-QTTCB                   |
|  | 1204517 SZF 1-0,6X3,5               |
|  | 3022276 CLIPFIX 35-5                |
|  | 3022218 CLIPFIX 35                  |
| List of bridges                                    | Plug-in bridge / FBS 2-5 / 3030161  |
|  | Plug-in bridge / FBS 3-5 / 3030174  |
|  | Plug-in bridge / FBS 4-5 / 3030187  |
|  | Plug-in bridge / FBS 5-5 / 3030190  |
|  | Plug-in bridge / FBS 10-5 / 3030213 |
| Plug-in bridge / FBS 20-5 / 3030226                |                                     |
| Bridge data  | 14.5 A / 1.5 mm <sup>2</sup>        |
| Ex temperature increase                            | 40 K (16.7 A/1.5 mm <sup>2</sup> )  |
| for bridging with bridge                           | 440 V                               |
| - At bridging between non-adjacent terminal blocks | 352 V                               |
| - At cut-to-length bridging with cover             | 220 V                               |
| - At cut-to-length bridging with partition plate   | 275 V                               |
| Rated insulation voltage                           | 400 V                               |
| output   | (Permanent)                         |

## Ex level General

|                      |       |
|----------------------|-------|
| Rated voltage        | 440 V |
| Rated current        | 15 A  |
| Maximum load current | 15 A  |

## Ex connection data General

|  |  |
|--|--|
| Nominal cross section                                | 1.5 mm <sup>2</sup>                          |
| Rated cross section AWG                              | 16   |
| Connection capacity rigid                            | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection capacity AWG                              | 24 ... 16                                    |
| Connection capacity flexible                         | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection capacity AWG                              | 24 ... 16                                    |
| Frequency of connections with the same cross section | 100  |
| output   | (Permanent)                                  |

## Ex level Level 1

|                    |             |
|--------------------|-------------|
| Contact resistance | 1.4 mΩ      |
| output             | (Permanent) |

## Ex level Level 2

|                    |      |
|--------------------|------|
| Contact resistance | 1 mΩ |
|--------------------|------|

## Dimensions

|                 |         |
|-----------------|---------|
| Width           | 5.2 mm  |
| End cover width | 2.2 mm  |
| Height          | 99.6 mm |

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|                    |         |
|--------------------|---------|
| Depth on NS 35/7,5 | 49.9 mm |
| Depth on NS 35/15  | 57.4 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          |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °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)                        | 28 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          |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 7.3 kV      |
| Result                | Test passed |

### Temperature-rise test

|  |                                     |
|--|-------------------------------------|
| Requirement temperature-rise test                | Increase in temperature $\leq$ 45 K |
| Result   | Test passed                         |
| Short-time withstand current 1.5 mm <sup>2</sup> | 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

### Mechanical strength

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

### Attachment on the carrier

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|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | 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 | 0.2 mm <sup>2</sup> / 0.2 kg<br>1.5 mm <sup>2</sup> / 0.4 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

|               |                       |
|---------------|-----------------------|
| Mounting type | NS 35/7,5<br>NS 35/15 |
|---------------|-----------------------|

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3205129>

|  <b>CSA</b><br>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                 | 5 A                   | 24 - 16           | -                           |

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00539 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>cULus Recognized</b><br>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><br>Approval ID: 09 ME 139 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

| <b>ABS</b><br>Approval ID: 22-2196825-PDA |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

| <b>DNV</b><br>Approval ID: TAE000014H |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|


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


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|  <b>IECEx</b><br>Approval ID: IECEXKIWA19.0011U |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 440 V                 | 15 A                  | -                 | 0.25 - 1.5                  |

|  <b>ATEX</b><br>Approval ID: KIWA19ATEX0019U |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
| Type examination certificate  | 440 V                 | 15 A                  | -                 | 0.25 - 1.5                  |

|  <b>CCC</b><br>Approval ID: 2020322313000625 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>UKCA-EX</b><br>Approval ID: CSAE 22UKEX1429U |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250102 |
| ECLASS-15.0 | 27250102 |

### ETIM

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