

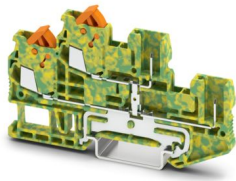
# QTTCB 1,5/ 2P-PE - Protective conductor double-level terminal block



3050219

<https://www.phoenixcontact.com/us/products/3050219>

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Protective conductor double-level terminal block, connection method: Fast/plug-in connection, 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: green-yellow

## Your advantages

- Ground terminal blocks of the same shape are available
- Tested for railway applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3050219       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE03          |
| Product key                          | BE3142        |
| GTIN                                 | 4017918975869 |
| Weight per piece (including packing) | 17.92 g       |
| Weight per piece (excluding packing) | 17.92 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Notes

#### General

|      |   |
|------|---|
| Note | In plugged-in condition, the most unfavorable paths of the entire plug-in connection are decisive.<br>When reconnecting the conductor, you must make sure that the section of the conductor already used for contacting is cut off again. |
|------|---|

### Product properties

|                       |   |
|-----------------------|---|
| Product type          | Ground terminal block                                     |
| Product family        | QTC   |
| Area of application   | Railway industry<br>Machine building<br>Plant engineering |
| Number of connections | 4   |
| Number of rows        | 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

|  |  |
|--|--|
| Grounding foot   | Yes  |
| Number of connections per level                                | 2  |
| Nominal cross section  | 1.5 mm <sup>2</sup>  |
| Connection method  | Fast/plug-in connection  |
| Note   | Please observe the current carrying capacity of the DIN rails. |
| Material wire insulation                                       | PVC / PE   |
| Internal cylindrical gage                                      | A3   |
| Connection in acc. with standard                               | IEC 61984  |
| 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>                   |
| Cross section, sensor conductors                               | 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>                  |
| Nominal cross section  | 1.5 mm <sup>2</sup>  |

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## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 5.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 87.8 mm |
| Depth on NS 35/7,5 | 49.9 mm |
| Depth on NS 35/15  | 57.4 mm |

## Material specifications

|   |              |
|---|--------------|
| Color   | green-yellow |
| 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)        | 125 °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       |

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Service life

|                             |     |
|-----------------------------|-----|
| Insertion/withdrawal cycles | 100 |
|-----------------------------|-----|

### Oscillation/broadband noise

|                        |  |
|------------------------|--|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05              |
| Spectrum               | Long life test category 1, class B, body mounted |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$   |
| ASD level              | $0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$       |
| Acceleration           | 0.58g  |
| Test duration per axis | 5 h  |
| Test directions        | X-, Y- and Z-axis                                |
| Result                 | Test passed                                      |

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## 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 (max. operating temperature see derating curve)                    |
| Temperature when conductor connected     | -40 °C ... 100 °C   |
| 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 61984 |
|----------------------------------|-----------|

## Mounting

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

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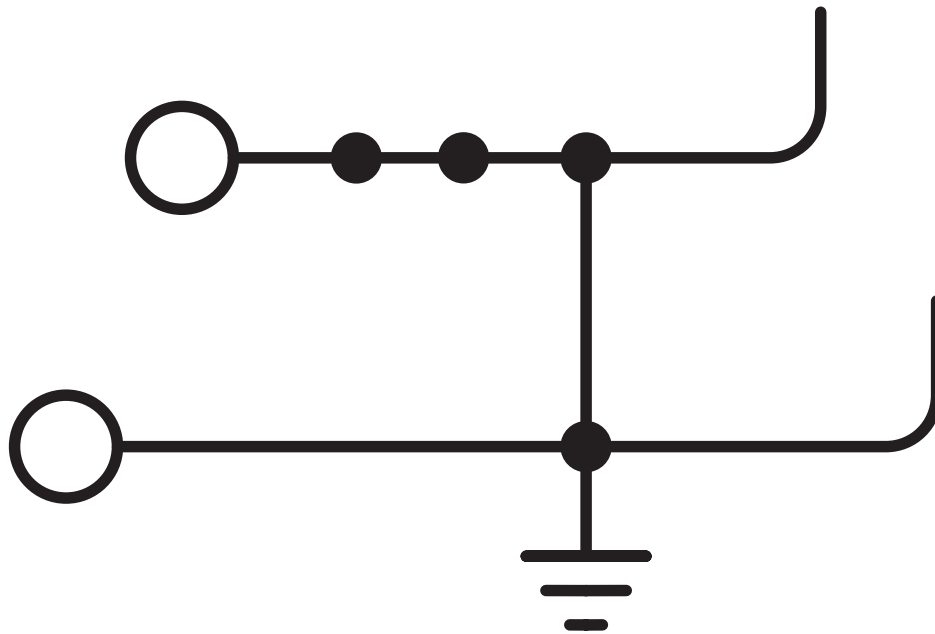


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3050219>

|  <b>CSA</b><br>Approval ID: 158887 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine   |                       |                       |                   |                      |
|   | -                     | -                     | 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 $mm^2$ |
| B  |                       |                       |                   |                      |
|  | -                     | -                     | 24 - 16           | -                    |
| C  |                       |                       |                   |                      |
|  | -                     | -                     | 24 - 16           | -                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250104 |
| ECLASS-15.0 | 27250104 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000901 |
|-----------|----------|

### 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.121 kg CO2e |
|---------|---------------|

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)