

# QTC 2,5-TG - Disconnect terminal block



3206490

<https://www.phoenixcontact.com/us/products/3206490>

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Disconnect terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 20 A, connection method: Quick connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, color: gray

## 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
- Individual and easy assembly with isolating plug, fuse plug, component connector, and feed-through connector
- High contact quality and vibration resistance thanks to the use of high-quality spring contact material
- Secure wiring thanks to lockable swivel lever

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3206490       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE03          |
| Product key                          | BE3132        |
| GTIN                                 | 4046356057677 |
| Weight per piece (including packing) | 12.56 g       |
| Weight per piece (excluding packing) | 11.4 g        |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                           |
|-----------------------|---------------------------|
| Product type          | Disconnect terminal block |
| Area of application   | Railway industry          |
|                       | Machine building          |
|                       | Plant engineering         |
| Number of connections | 2                         |
| 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 | 0.77 W |

### Connection data

|  |   |
|--|---|
| Number of connections per level                      | 2   |
| Frequency of connections with the same cross section | 100   |
| Nominal cross section                                | 2.5 mm <sup>2</sup>                                       |
| Connection method                                    | Quick connection  |
| Material wire insulation                             | PVC / PE  |
| Connection in acc. with standard                     | IEC 60947-7-1   |
| Conductor cross-section rigid                        | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>               |
| Cross section AWG                                    | 20 ... 14 (converted acc. to IEC)                         |
| Conductor cross-section flexible                     | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>               |
| Conductor cross-section, flexible [AWG]              | 20 ... 14 (converted acc. to IEC)                         |
| Nominal cross section                                | 2.5 mm <sup>2</sup>                                       |
| Nominal current                                      | 20 A  |
| Maximum load current                                 | 20 A (with a 2.5 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage                                      | 500 V   |

### Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 82.5 mm |
| Depth on NS 35/7,5 | 39.3 mm |
| Depth on NS 35/15  | 46.8 mm |

### Material specifications

|       |                 |
|-------|-----------------|
| Color | gray (RAL 7042) |
|-------|-----------------|

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|  |             |
|--|-------------|
| 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      |

## Cable/line

|                                |        |
|--------------------------------|--------|
| Wire diameter incl. insulation | 3.8 mm |
|--------------------------------|--------|

## 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                         |
|  | Test passed                         |
| Short-time withstand current 2.5 mm <sup>2</sup> | 0.3 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 |

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## Test for conductor damage and slackening

|                                |  |
|--------------------------------|--|
| Rotation speed                 | 10 (+/- 2) rpm   |
| Revolutions                    | 135  |
| Conductor cross-section/weight | 0.5 mm <sup>2</sup> / 0.3 kg<br>2.5 mm <sup>2</sup> / 0.7 kg |
| Result                         | Test passed  |

## Environmental and real-life conditions

### Aging

|                    |             |
|--------------------|-------------|
| Temperature cycles | 192         |
| Result             | Test passed |

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|                        |  |
|------------------------|--|
| Specification          | EN 50155:2021-07                               |
| 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           | 30.6 m/s <sup>2</sup>                          |
| Test duration per axis | 5 h  |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2008-03 |
| 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 ... 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

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|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

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

# QTC 2,5-TG - Disconnect terminal block

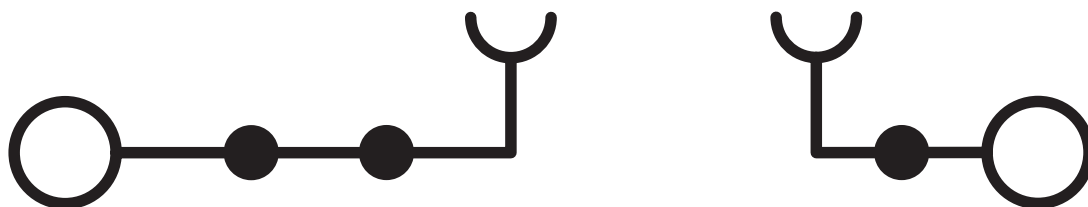
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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3206490>

|  <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                 | 15 A                  | 20 - 14           | -                           |
| C   | 300 V                 | 15 A                  | 20 - 14           | -                           |
| D   | 600 V                 | 5 A                   | 20 - 14           | -                           |

|  <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                 | 15 A                  | 20 - 14           | -                           |
| C  | 300 V                 | 15 A                  | 20 - 14           | -                           |

|  <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 |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250108 |
| ECLASS-15.0 | 27250108 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000902 |
|-----------|----------|

### 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 | 0.132 kg CO2e |
|---------|---------------|

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