

# QTC 1,5 RD - Feed-through terminal block



3206254

<https://www.phoenixcontact.com/us/products/3206254>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 17.5 A, number of connections: 2, connection method: Quick connection, 1 level, cross section: 0.25 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/7,5, color: red

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3206254       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE03          |
| Product key                          | BE3111        |
| GTIN                                 | 4017918932732 |
| Weight per piece (including packing) | 8.58 g        |
| Weight per piece (excluding packing) | 8.4 g         |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| Number of connections | 2                           |
| Number of rows        | 1                           |
| Potentials            | 1                           |

### Insulation characteristics

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

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 1.02 W |

### Connection data

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

#### 1 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)                         |
| Cross section, sensor conductors        | 0.25 mm <sup>2</sup> ... 0.34 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                         | 800 V   |

### Ex data

#### Rated data (ATEX/IECEx)

|                             |   |
|-----------------------------|---|
| Identification              | ⊕ II 2 GD Ex eb IIC Gb  |
| Operating temperature range | -45 °C ... 90 °C  |
| Ex-certified accessories    | 3205161 D-QTC 1,5<br>3206209 ATP-QTC<br>1204517 SZF 1-0,6X3,5<br>3022276 CLIPFIX 35-5<br>3022218 CLIPFIX 35 |
| List of bridges             | Plug-in bridge / FBS 2-5 / 3030161<br>Plug-in bridge / FBS 3-5 / 3030174                                    |

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|   |                                      |
|---|--------------------------------------|
|   | 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   | 16.5 A (1.5 mm <sup>2</sup> )        |
| Ex temperature increase<br>for bridging with bridge | 40 K (18.6 A / 1.5 mm <sup>2</sup> ) |
| - At bridging between non-adjacent terminal blocks  | 550 V                                |
| - At cut-to-length bridging with cover              | 352 V                                |
| - At cut-to-length bridging with partition plate    | 220 V                                |
| Rated insulation voltage                            | 275 V                                |
| output  | 500 V                                |
|   | (Permanent)                          |

## Ex level General

|                      |        |
|----------------------|--------|
| Rated voltage        | 550 V  |
| Rated current        | 16.5 A |
| Maximum load current | 16.5 A |
| Contact resistance   | 1 mΩ   |

## 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  |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 5.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 58.8 mm |
| Depth on NS 35/7,5 | 39.3 mm |
| Depth on NS 35/15  | 46.8 mm |

## Material specifications

|  |                |
|--|----------------|
| Color                                  | red (RAL 3001) |
| Flammability rating according to UL 94 | V0             |
| Insulating material group              | I              |
| Insulating material                    | PA             |

## Cable/line

|                                |      |
|--------------------------------|------|
| Wire diameter incl. insulation | 3 mm |
|--------------------------------|------|

## Mechanical properties

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## Mechanical data

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

## Environmental and real-life conditions

### 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 |
|               | NS 35/7,5 |

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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3206254>


|  <b>CSA</b><br>Approval ID: 158887 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B   | 600 V                 | 10 A                  | 24 - 16           | -                    |
| C   | 600 V                 | 10 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 $mm^2$ |
| B  | 600 V                 | 10 A                  | 24 - 16           | -                    |
| C  | 600 V                 | 10 A                  | 24 - 16           | -                    |

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

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

|  <b>IECEX</b><br>Approval ID: IECEXKIWA19.0011U |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  | 550 V                 | 16.5 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 $mm^2$ |
| keine   |                       |                       |                   |                      |
| Type examination certificate  | 550 V                 | 16.5 A                | -                 | 0.25 - 1.5           |

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**CCC**

Approval ID: 2020322313000625



**UKCA-EX**

Approval ID: CSAE 22UKEX1429U

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## Classifications

### ECLASS

ECLASS-13.0

27250101

### ETIM

ETIM 9.0

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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