

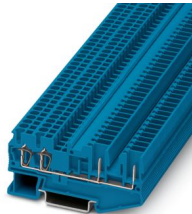
# ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 4, connection method: Spring-cage/plug-in connection, Rated cross section: 2.5 mm<sup>2</sup>, 1st level connection right, cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, 1st level connection left, mounting type: NS 35/7,5, NS 35/15, color: blue

## Your advantages

- Tested for railway applications
- The plug-in ST-COMBI spring-cage terminal block series combines the system advantages of the ST standard terminal block series with those of the COMBI plug-in system

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3040669       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE02          |
| Product key                          | BE2141        |
| GTIN                                 | 4017918832520 |
| Weight per piece (including packing) | 9.368 g       |
| Weight per piece (excluding packing) | 8.779 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

# ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

## Technical data

### Product properties

|                       |                        |
|-----------------------|------------------------|
| Product type          | Plug-in terminal block |
| Area of application   | Railway industry       |
|                       | Machine building       |
|                       | Plant engineering      |
| Number of connections | 4                      |
| 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 | 4                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |

### 1st level connection right

|   |   |
|---|---|
| Connection method   | Spring-cage/plug-in connection                        |
| Stripping length  | 8 mm ... 10 mm  |
| Internal cylindrical gage   | A3  |
| Connection in acc. with standard  | IEC 61984   |
| Conductor cross-section rigid   | 0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Cross section AWG   | 28 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible  | 0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Conductor cross-section, flexible [AWG]   | 28 ... 14 (converted acc. to IEC)                     |
| Conductor cross-section flexible ultrasound-compressed                                    | 0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Conductor cross-section, flexible [AWG] ultrasound-compressed                             | 22 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup>                                   |
| Nominal cross section   | 2.5 mm <sup>2</sup>                                   |
| Nominal current   | 24 A  |
| Maximum load current  | 24 A (with 4 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage   | 500 V   |

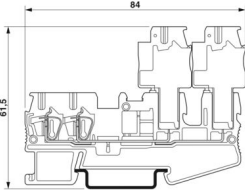
### Dimensions

# ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 5.2 mm   |
| End cover width     | 2.2 mm   |
| Height              | 81 mm  |
| Depth on NS 35/7,5  | 36.5 mm  |
| Depth on NS 35/15   | 44 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)) | 125 °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)                        | 27,5 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

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (operation)         | -60 °C ... 100 °C (max. operating temperature range including self-heating, see derating curve) |
| 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 %   |

# ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

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

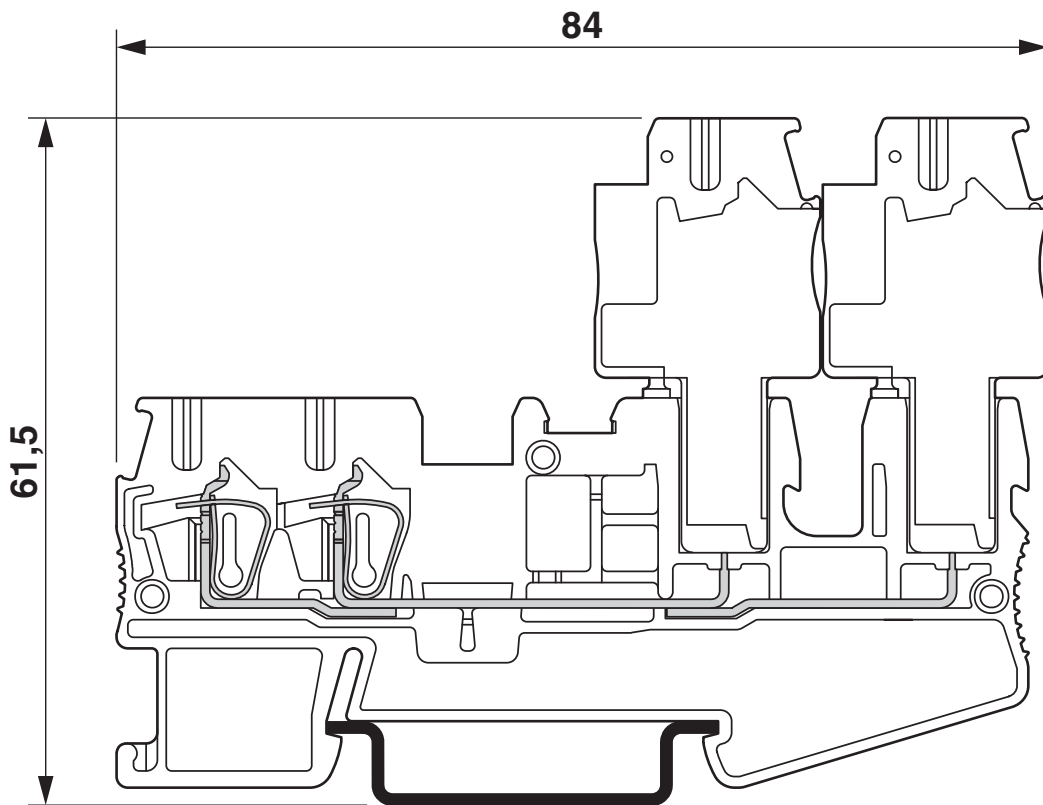
# ST 2,5-QUATTRO/2P BU - Feed-through terminal block

3040669

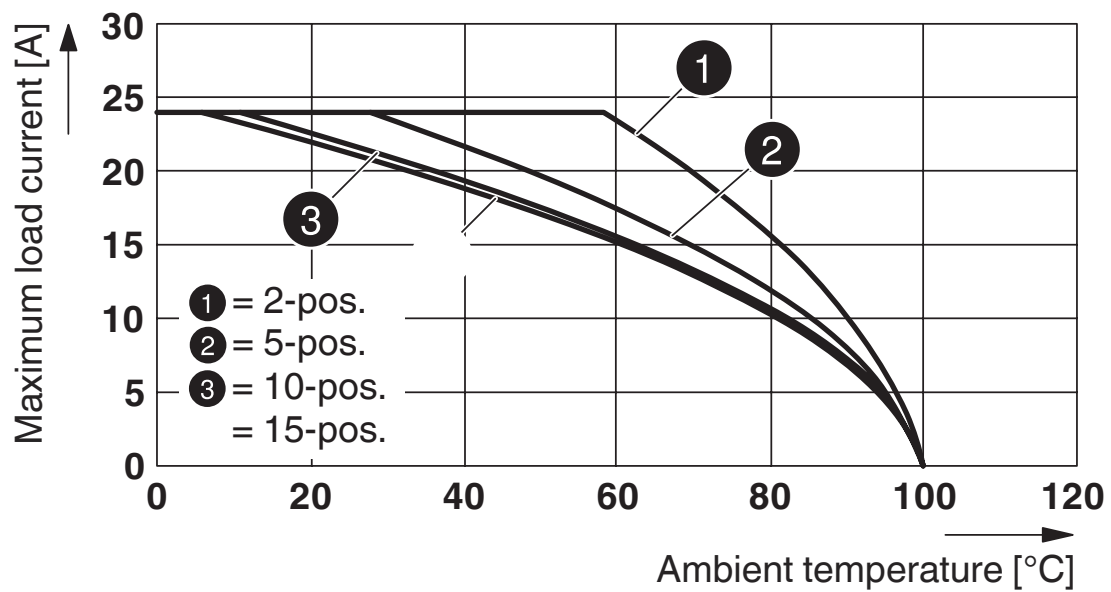
<https://www.phoenixcontact.com/us/products/3040669>

## Drawings

Dimensional drawing



Diagram



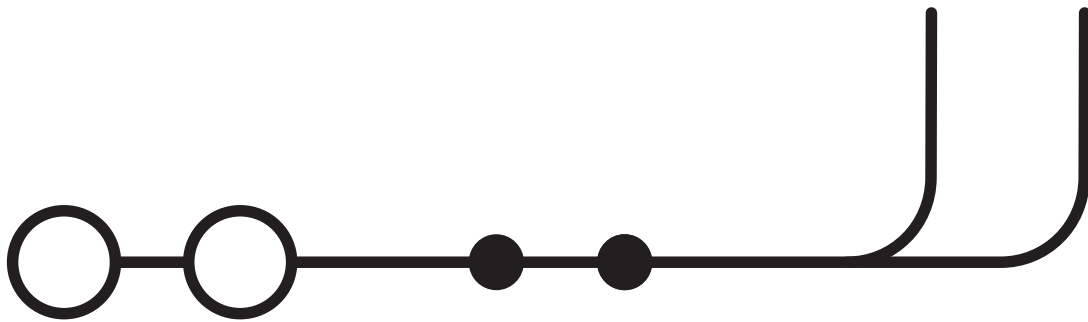
Applies to all male connector variants SP...

# ST 2,5-QUATTRO/2P BU - Feed-through terminal block

3040669

<https://www.phoenixcontact.com/us/products/3040669>

Circuit diagram



# ST 2,5-QUATTRO/2P BU - Feed-through terminal block




3040669


<https://www.phoenixcontact.com/us/products/3040669>


## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3040669>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  | 300 V                 | 20 A                  | 28 - 12           | -                    |
| C  | 300 V                 | 20 A                  | 28 - 12           | -                    |
| D  | 600 V                 | 5 A                   | 28 - 12           | -                    |

|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-62736/B1/B2 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00644 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  | 300 V                 | 20 A                  | 28 - 12           | -                    |
| C  | 300 V                 | 20 A                  | 28 - 12           | -                    |
| D  | 600 V                 | 5 A                   | 28 - 12           | -                    |
| F  | 500 V                 | 20 A                  | 28 - 12           | -                    |

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40019518 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
| Only flexible conductors   | 500 V                 | -                     | -                 | 0.2 - 2.5            |
| Only rigid conductors  | 500 V                 | -                     | -                 | 0.2 - 4              |

# ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

**DNV**

Approval ID: TAE00001CS



**EAC**

Approval ID: KZ7500651131219505

# ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250117 |
| ECLASS-15.0 | 27250117 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

# ST 2,5-QUATTRO/2P BU - Feed-through terminal block



3040669

<https://www.phoenixcontact.com/us/products/3040669>

## 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 | 0.045 kg CO2e |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

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