

# ST 4-QUATTRO BK - Feed-through terminal block



1013467

<https://www.phoenixcontact.com/us/products/1013467>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 4, connection method: Spring-cage connection, Rated cross section: 4 mm<sup>2</sup>, 1 level, cross section: 0.08 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black

## Your advantages

- Cross connection to any number of terminal blocks with the consistent FBS ... plug-in bridge system
- Compact potential distributors, the double connection enables four conductors to be connected on one potential
- Tested for railway applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1013467       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE02          |
| Product key                          | BE2113        |
| GTIN                                 | 4055626492605 |
| Weight per piece (including packing) | 14.14 g       |
| Weight per piece (excluding packing) | 14.14 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

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

#### 1 level

|   |   |
|---|---|
| Connection method   | Spring-cage connection  |
| Stripping length  | 8 mm ... 10 mm  |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Conductor cross-section rigid   | 0.08 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Cross section AWG   | 28 ... 10 (converted acc. to IEC)   |
| Conductor cross-section flexible  | 0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| Conductor cross-section, flexible [AWG]   | 28 ... 12 (converted acc. to IEC)   |
| Conductor cross-section flexible ultrasound-compressed                                    | 0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Conductor cross-section, flexible [AWG] ultrasound-compressed                             | 22 ... 10 (converted acc. to IEC)   |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>   |
| Nominal cross section   | 4 mm <sup>2</sup>   |
| Nominal current   | 32 A (with 6 mm <sup>2</sup> conductor cross-section)   |
| Maximum load current  | 40 A (In the case of a 6 mm <sup>2</sup> conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors) |
| Nominal voltage   | 800 V   |

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## Ex data

### Rated data (ATEX/IECEX)

|  |  |
|--|--|
| Identification   | ⊕ II 2 GD Ex eb IIC Gb   |
| Operating temperature range  | -60 °C ... 85 °C   |
| Ex-certified accessories   | 3030527 D-ST 4-QUATTRO<br>3030815 ATP-ST QUATTRO<br>3036615 DS-ST 4<br>1204517 SZF 1-0,6X3,5<br>3022276 CLIPFIX 35-5<br>3022218 CLIPFIX 35   |
| List of bridges  | Plug-in bridge / FBS 2-6 / 3030336<br>Plug-in bridge / FBS 3-6 / 3030242<br>Plug-in bridge / FBS 4-6 / 3030255<br>Plug-in bridge / FBS 5-6 / 3030349<br>Plug-in bridge / FBS 10-6 / 3030271<br>Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data  | 28 A (4 mm <sup>2</sup> )  |
| Ex temperature increase  | 40 K (31.6 A / 4 mm <sup>2</sup> )   |
| for bridging with bridge   | 550 V  |
| - At bridging between non-adjacent terminal blocks                       | 352 V  |
| - At bridging between non-adjacent terminal blocks via PE terminal block | 352 V  |
| - At cut-to-length bridging with cover                                   | 220 V  |
| - At cut-to-length bridging with partition plate                         | 275 V  |
| Rated insulation voltage   | 500 V  |
| output   | (Permanent)  |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 550 V   |
| Rated current        | 27.5 A  |
| Maximum load current | 34.5 A  |
| Contact resistance   | 0.78 mΩ |

### Ex connection data General

|                              |  |
|------------------------------|--|
| Nominal cross section        | 4 mm <sup>2</sup>                          |
| Rated cross section AWG      | 12   |
| Connection capacity rigid    | 0.08 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Connection capacity AWG      | 28 ... 10                                  |
| Connection capacity flexible | 0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Connection capacity AWG      | 28 ... 12                                  |

## Dimensions

|                 |        |
|-----------------|--------|
| Width           | 6.2 mm |
| End cover width | 2.2 mm |

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|                    |         |
|--------------------|---------|
| Height             | 87 mm   |
| Depth on NS 35/7,5 | 36.5 mm |
| Depth on NS 35/15  | 44 mm   |

## Material specifications

|  |                  |
|--|------------------|
| Color  | black (RAL 9005) |
| 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           |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV      |
| Result                | Test passed |

### Temperature-rise test

|  |                                     |
|--|-------------------------------------|
| Requirement temperature-rise test              | Increase in temperature $\leq$ 45 K |
| Result   | Test passed                         |
| Short-time withstand current 4 mm <sup>2</sup> | 0.48 kA                             |
| Result   | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2 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 35 |
|-------------------------|-------|

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|                     |             |
|---------------------|-------------|
| Test force setpoint | 1 N         |
| Result              | Test passed |

## Test for conductor damage and slackening

|                                |                               |
|--------------------------------|-------------------------------|
| Rotation speed                 | 10 (+/- 2) rpm                |
| Revolutions                    | 135                           |
| Conductor cross-section/weight | 0.25 mm <sup>2</sup> / 0.2 kg |
|                                | 4 mm <sup>2</sup> / 0.9 kg    |
|                                | 6 mm <sup>2</sup> / 1.4 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          | DIN EN 50155 (VDE 0115-200):2022-06            |
| 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           | 3.12g  |
| 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  |

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|  |               |
|--|---------------|
| 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 35/15  |

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## Drawings

Circuit diagram



# ST 4-QUATTRO BK - Feed-through terminal block





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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1013467>


|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  | 600 V                 | 30 A                  | 28 - 10           | -                    |
| C  | 600 V                 | 30 A                  | 28 - 10           | -                    |


|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-63028_M1 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine   | 800 V                 | 32 A                  | -                 | 0.2 - 4              |

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

|  <b>KR</b><br>Approval ID: HMB17372-EL002 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>NK</b><br>Approval ID: 09 ME 140 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40009034 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  | 800 V                 | 32 A                  | -                 | 0.2 - 4              |

|  <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                 | 30 A                  | 28 - 10           | -                    |
| C  | 600 V                 | 30 A                  | 28 - 10           | -                    |

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**ATEX**

Approval ID: KEMA00ATEX2129U



**EAC Ex**

Approval ID: KZ 7500525010101950



**IECEX**

Approval ID: IECEX KEM 06.0050U



**CCC**

Approval ID: 2020322313000621



**UKCA-EX**

Approval ID: DEKRA 21UKEX0301U

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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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.077 kg CO2e |
|---------|---------------|

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