

# PT 6-QUATTRO - Feed-through terminal block



3212934

<https://www.phoenixcontact.com/us/products/3212934>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 4, connection method: Push-in connection, Rated cross section: 6 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Time-saving conductor connection thanks to tool-free direct-connection technology
- Convenient plugging with lower insertion force
- High conductor pull-out forces due to the spring design
- Vibration-resistant and maintenance-free conductor connection
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Compact wiring of three conductors in a single terminal block
- Optimized for manual and automated wiring

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3212934       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2213        |
| GTIN                                 | 4046356538121 |
| Weight per piece (including packing) | 25.3 g        |
| Weight per piece (excluding packing) | 25.3 g        |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Multi-conductor terminal block |
| Product family        | PT                             |
| 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                             | 8 kV   |
| Maximum power dissipation for nominal condition | 1.31 W |

### Connection data

|   |   |
|---|---|
| Number of connections per level   | 4   |
| Nominal cross section   | 6 mm <sup>2</sup>   |
| Connection method   | Push-in connection  |
| Stripping length  | 10 mm ... 12 mm   |
| Internal cylindrical gage   | A5  |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Conductor cross-section rigid   | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>  |
| Cross section AWG   | 20 ... 8 (converted acc. to IEC)  |
| Conductor cross-section flexible  | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>  |
| Conductor cross-section, flexible [AWG]   | 20 ... 8 (converted acc. to IEC)  |
| Conductor cross-section flexible ultrasound-compressed                                    | 0.34 mm <sup>2</sup> ... 10 mm <sup>2</sup>   |
| Conductor cross-section, flexible [AWG] ultrasound-compressed                             | 22 ... 8 (converted acc. to IEC)  |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> When using TWIN ferrules, we recommend a minimum ferrule length of 13 mm. |
| Nominal cross section   | 6 mm <sup>2</sup>   |
| Nominal current   | 41 A  |
| Maximum load current  | 52 A (with 10 mm <sup>2</sup> conductor cross-section, rigid)   |
| Nominal voltage   | 1000 V  |

### Connection cross sections directly pluggable

|   |  |
|---|--|
| Conductor cross-section rigid                                     | 1 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |

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|  |   |
|--|---|
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
|--|---|

## Ex data

### Rated data (ATEX/IECEX)

|  |   |
|--|---|
| Identification   | ⊕ II 2 GD Ex eb IIC Gb  |
| Operating temperature range (1)  | -60 °C ... 85 °C  |
| Operating temperature range (2)  | -40 °C ... 110 °C   |
| Ex-certified accessories   | 3212963 D-PT 6-QUATTRO<br>1204520 SZF 2-0,8X4,0<br>3022276 CLIPFIX 35-5<br>3022218 CLIPFIX 35   |
| List of bridges  | Plug-in bridge / FBS 2-8 / 3030284<br>Plug-in bridge / FBS 3-8 / 3030297<br>Plug-in bridge / FBS 4-8 / 3030307<br>Plug-in bridge / FBS 5-8 / 3030310<br>Plug-in bridge / FBS 10-8 / 3030323 |
| Bridge data  | 35 A (6 mm <sup>2</sup> )   |
| Ex temperature increase  | 40 K (36 A/6 mm <sup>2</sup> )  |
| for bridging with bridge   | 550 V   |
| - At bridging between non-adjacent terminal blocks                       | 275 V   |
| - At bridging between non-adjacent terminal blocks via PE terminal block | 275 V   |
| - At cut-to-length bridging  | 220 V   |
| - At cut-to-length bridging with cover                                   | 275 V   |
| Rated insulation voltage   | 500 V   |
| output   | (Permanent)   |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated current        | 36 A    |
| Maximum load current | 45 A    |
| Contact resistance   | 0.65 mΩ |

### Ex connection data General

|                              |  |
|------------------------------|--|
| Nominal cross section        | 6 mm <sup>2</sup>                          |
| Rated cross section AWG      | 10   |
| Connection capacity rigid    | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Connection capacity AWG      | 20 ... 8                                   |
| Connection capacity flexible | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Connection capacity AWG      | 20 ... 10                                  |

## Dimensions

|                 |         |
|-----------------|---------|
| Width           | 8.2 mm  |
| End cover width | 2.2 mm  |
| Height          | 90.5 mm |
| Depth           | 42.2 mm |

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|                    |         |
|--------------------|---------|
| Depth on NS 35/7,5 | 43.5 mm |
| Depth on NS 35/15  | 51 mm   |

## Material specifications

|  |                 |
|--|-----------------|
| Color  | gray (RAL 7042) |
| 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                         |
|  | Test passed                         |
| Short-time withstand current 6 mm <sup>2</sup> | 0.72 kA                             |
| Result   | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 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 35/7,5 UNGELOCHT |
|-------------------------|---------------------|

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|                     |             |
|---------------------|-------------|
| Test force setpoint | 5 N         |
| Result              | Test passed |

## Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross-section/weight | 0.5 mm <sup>2</sup> / 0.3 kg |
|                                | 6 mm <sup>2</sup> / 1.4 kg   |
|                                | 10 mm <sup>2</sup> / 2 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):2018-05            |
| 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):2018-05 |
| Pulse shape                    | Half-sine                           |
| Acceleration                   | 30g                                 |
| Shock duration                 | 18 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



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3212934>

|  <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                 | 40 A                  | 20 - 8            | -                    |
| C   | 600 V                 | 40 A                  | 20 - 8            | -                    |
| D   | 600 V                 | 5 A                   | 20 - 8            | -                    |

|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-64280 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <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  | 600 V                 | 40 A                  | 20 - 8            | -                    |
| C  | 600 V                 | 40 A                  | 20 - 8            | -                    |
| F  | 1000 V                | 40 A                  | 20 - 8            | -                    |

|  <b>LR</b><br>Approval ID: LR2371832TA |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>NK</b><br>Approval ID: 22ME0007 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40035239 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |

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|                          |        |      |   |          |
|--------------------------|--------|------|---|----------|
| Only flexible conductors | 1000 V | 41 A | - | 0.5 - 6  |
| Only rigid conductors    | 1000 V | 41 A | - | 0.5 - 10 |



**PRC**

Approval ID: TE/2107/880590/21

**ABS**

Approval ID: 21-2192245-PDA

**DNV**

Approval ID: TAE000010T



**cUL Recognized**

Approval ID: E192998

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine |                       |                       |                   |                      |
|       | 550 V                 | 40 A                  | 20 - 8            | -                    |



**EAC Ex**

Approval ID: RU C-DE.AB72.B.02351



**IEC Ex**

Approval ID: IECEx SEV13.0005U



**UL Recognized**

Approval ID: E192998

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine |                       |                       |                   |                      |
|       | 550 V                 | 40 A                  | 20 - 8            | -                    |



**ATEX**

Approval ID: SEV13ATEX0159U



**CCC**

Approval ID: 2020322313000631

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**EAC Ex**

Approval ID: KZ 7500525010101950

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

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