

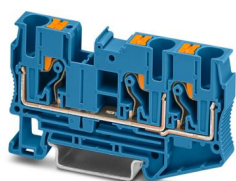
# PT 6-TWIN BU - Feed-through terminal block



3211485

<https://www.phoenixcontact.com/us/products/3211485>

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: 1000 V, nominal current: 41 A, number of connections: 3, 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: blue

## 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                          | 3211485       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2212        |
| GTIN                                 | 4046356495967 |
| Weight per piece (including packing) | 20.06 g       |
| Weight per piece (excluding packing) | 18.833 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

# PT 6-TWIN BU - Feed-through terminal block



3211485

<https://www.phoenixcontact.com/us/products/3211485>

## 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 | 3                              |
| 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                                                           | 3                                                                                                                     |
| 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>  |

# PT 6-TWIN BU - Feed-through terminal block



3211485

<https://www.phoenixcontact.com/us/products/3211485>

|                                                                |                                         |
|----------------------------------------------------------------|-----------------------------------------|
| 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                                                           | Ex 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                                                 | 3211508 D-PT 6-TWIN                 |
|                                                                          | 1204520 SZF 2-0,8X4,0               |
|                                                                          | 3022276 CLIPFIX 35-5                |
|                                                                          | 3022218 CLIPFIX 35                  |
| List of bridges                                                          | Plug-in bridge / FBS 2-8 / 3030284  |
|                                                                          | Plug-in bridge / FBS 3-8 / 3030297  |
|                                                                          | Plug-in bridge / FBS 4-8 / 3030307  |
|                                                                          | Plug-in bridge / FBS 5-8 / 3030310  |
|                                                                          | Plug-in bridge / FBS 6-8 / 3032470  |
|                                                                          | Plug-in bridge / FBS 10-8 / 3030323 |
| Bridge data                                                              | 35 A (6 mm <sup>2</sup> )           |
| Ex temperature increase                                                  | 40 K (35.5 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                               |
| - At cut-to-length bridging with partition plate                         | 550 V                               |
| Rated insulation voltage                                                 | 500 V                               |
| output                                                                   | (Permanent)                         |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 550 V   |
| Rated current        | 35.5 A  |
| Maximum load current | 44.5 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 |
|-------|--------|

# PT 6-TWIN BU - Feed-through terminal block



3211485

<https://www.phoenixcontact.com/us/products/3211485>

|                    |         |
|--------------------|---------|
| End cover width    | 2.2 mm  |
| Height             | 74.2 mm |
| Depth              | 42.2 mm |
| Depth on NS 35/7,5 | 43.5 mm |
| Depth on NS 35/15  | 51 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          |
| 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          |

## Mechanical properties

### 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 35/15  |

# PT 6-TWIN BU - Feed-through terminal block



3211485

<https://www.phoenixcontact.com/us/products/3211485>

## Drawings

Circuit diagram



# PT 6-TWIN BU - Feed-through terminal block



3211485

<https://www.phoenixcontact.com/us/products/3211485>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3211485>

|  <b>CSA</b><br>Approval ID: 158887 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                     | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| 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 $\text{mm}^2$ |
| 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 $\text{mm}^2$ |
| keine                                                                                                                                      |                       |                       |                   |                             |

# PT 6-TWIN BU - Feed-through terminal block



3211485

<https://www.phoenixcontact.com/us/products/3211485>

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

## 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 $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 550 V                 | 40 A                  | 20 - 8            | -                           |



## EAC Ex

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



## IECEx

Approval ID: IECEx SEV13.0005U



## UL Recognized

Approval ID: E192998

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



## ATEX

Approval ID: SEV13ATEX0159U



## CCC

Approval ID: 2020322313000631



## EAC Ex

Approval ID: KZ 7500525010101950

# PT 6-TWIN BU - Feed-through terminal block

3211485

<https://www.phoenixcontact.com/us/products/3211485>



# PT 6-TWIN BU - Feed-through terminal block



3211485

<https://www.phoenixcontact.com/us/products/3211485>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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%               |