

# PT 16-TWIN N BU - Feed-through terminal block



3208773

<https://www.phoenixcontact.com/us/products/3208773>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 76 A, number of connections: 3, connection method: Push-in connection, Rated cross section: 16 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: blue

## Your advantages

- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- The compact design and front connection enable wiring in a confined space
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- Tested for railway applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3208773       |
| Packing unit                         | 25 pc         |
| Minimum order quantity               | 25 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2212        |
| GTIN                                 | 4046356737548 |
| Weight per piece (including packing) | 44.788 g      |
| Weight per piece (excluding packing) | 44 g          |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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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 | 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 | 2.43 W |

### Connection data

|                                                                                           |                                                               |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Number of connections per level                                                           | 3                                                             |
| Nominal cross section                                                                     | 16 mm <sup>2</sup>                                            |
| Connection method                                                                         | Push-in connection                                            |
| Stripping length                                                                          | 18 mm ... 20 mm                                               |
| Internal cylindrical gage                                                                 | A7                                                            |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                                 |
| Conductor cross section rigid                                                             | 0.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>                    |
| Cross section AWG                                                                         | 20 ... 4 (converted acc. to IEC)                              |
| Conductor cross section flexible                                                          | 0.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>                    |
| Conductor cross section, flexible [AWG]                                                   | 20 ... 4 (converted acc. to IEC)                              |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>                    |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>                    |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |
| Nominal current                                                                           | 76 A                                                          |
| Maximum load current                                                                      | 85 A (with 25 mm <sup>2</sup> conductor cross section, rigid) |
| Nominal voltage                                                                           | 1000 V                                                        |
| Nominal cross section                                                                     | 16 mm <sup>2</sup>                                            |

### Connection cross sections directly pluggable

|                                                                   |                                            |
|-------------------------------------------------------------------|--------------------------------------------|
| Conductor cross section rigid                                     | 2.5 mm <sup>2</sup> ... 25 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |

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## 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        | 3208799 D-PT 16-TWIN N              |
|                                 | 1204517 SZF 1-0,6X3,5               |
|                                 | 3022276 CLIPFIX 35-5                |
|                                 | 3022218 CLIPFIX 35                  |
| List of bridges                 | Plug-in bridge / FBS 2-12 / 3005950 |
| Bridge data                     | 60.5 A (16 mm <sup>2</sup> )        |
| Ex temperature increase         | 40 K (65.5 A / 16 mm <sup>2</sup> ) |
| for bridging with bridge        | 550 V                               |
| Rated insulation voltage        | 500 V                               |
| output                          | (Permanent)                         |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 550 V   |
| Rated current        | 65.5 A  |
| Maximum load current | 78 A    |
| Contact resistance   | 0.31 mΩ |

### Ex connection data General

|                              |                                            |
|------------------------------|--------------------------------------------|
| Nominal cross section        | 16 mm <sup>2</sup>                         |
| Rated cross section AWG      | 6                                          |
| Connection capacity rigid    | 0.5 mm <sup>2</sup> ... 25 mm <sup>2</sup> |
| Connection capacity AWG      | 20 ... 4                                   |
| Connection capacity flexible | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Connection capacity AWG      | 20 ... 6                                   |

## Dimensions

|                    |          |
|--------------------|----------|
| Width              | 12.2 mm  |
| End cover width    | 2.2 mm   |
| Height             | 100.2 mm |
| Depth              | 53.3 mm  |
| Depth on NS 35/7,5 | 52.6 mm  |
| Depth on NS 35/15  | 60.1 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          |

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|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °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)                        | 28 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 ... 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  |

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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/3208773>

|  <b>CSA</b><br>Approval ID: 2030668 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                    | 600 V                 | 70 A                  | -                 | -                           |
| C                                                                                                                    | 600 V                 | 70 A                  | -                 | -                           |

|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-62846 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                              | 1000 V                | 76 A                  | -                 | 0.5 - 16                    |

|                                                                                                                                     |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <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                 | 85 A                  | 20 - 4            | -                           |
| C                                                                                                                                  | 600 V                 | 85 A                  | 20 - 4            | -                           |

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

|                                                                                                                        |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>CSA</b><br>Approval ID: 2030668 |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40040917 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                            | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                      | 1000 V                | 76 A                  | -                 | 0.5 - 16                    |

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**PRS**

Approval ID: TE/2107/880590/21

**DNV**

Approval ID: TAE000010T



**EAC Ex**

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



**IECEx**

Approval ID: IECEx SEV13.0005U



**ATEX**

Approval ID: SEV13ATEX0159U



**CCC**

Approval ID: 2020322313000631



**EAC Ex**

Approval ID: KZ 7500525010101950

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## Classifications

### ECLASS

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