

# PT 1,5/S-QUATTRO BN - Feed-through terminal block



1176490

<https://www.phoenixcontact.com/gb/products/1176490>

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Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 4, connection method: Push-in connection, Rated cross section: 1.5 mm<sup>2</sup>, 1 level, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: brown

## Your advantages

- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The compact design and front connection enable wiring in a confined space
- 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
- Tested for railway applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1176490       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE2223        |
| Product key                          | BE2223        |
| GTIN                                 | 4063151207465 |
| Weight per piece (including packing) | 5.286 g       |
| Weight per piece (excluding packing) | 5.286 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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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                             | 6 kV   |
| Maximum power dissipation for nominal condition | 0.56 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 4                   |
| Nominal cross section           | 1.5 mm <sup>2</sup> |

#### 1 level

|                                                                   |                                                                                                            |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Stripping length                                                  | 8 mm ... 10 mm                                                                                             |
| Internal cylindrical gage                                         | A1 / B1                                                                                                    |
| Connection in acc. with standard                                  | IEC 60947-7-1                                                                                              |
| Conductor cross section rigid                                     | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                               |
| Cross section AWG                                                 | 26 ... 16 (converted acc. to IEC)                                                                          |
| Conductor cross section flexible                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                               |
| Conductor cross section, flexible [AWG]                           | 26 ... 16 (converted acc. to IEC)                                                                          |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                               |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> Using the AI-S 1-8 TQ ferrule, Item No. 1200293, is recommended |
| Nominal current                                                   | 17.5 A                                                                                                     |
| Maximum load current                                              | 17.5 A                                                                                                     |
| Nominal voltage                                                   | 500 V                                                                                                      |
| Nominal cross section                                             | 1.5 mm <sup>2</sup>                                                                                        |

#### 1 level Connection cross sections directly pluggable

|                                                                   |                                              |
|-------------------------------------------------------------------|----------------------------------------------|
| Conductor cross section rigid                                     | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.34 mm <sup>2</sup> ... 1 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                                                 | 3208375 D-PT 1,5/S-QUATTRO<br>3030815 ATP-ST QUATTRO<br>1204504 SZF 0-0,4X2,5<br>3022276 CLIPFIX 35-5<br>3022218 CLIPFIX 35                                                                                                                    |
| List of bridges                                                          | Plug-in bridge / FBS 2-3,5 / 3213014<br>Plug-in bridge / FBS 3-3,5 / 3213027<br>Plug-in bridge / FBS 4-3,5 / 3213030<br>Plug-in bridge / FBS 5-3,5 / 3213043<br>Plug-in bridge / FBS 10-3,5 / 3213056<br>Plug-in bridge / FBS 20-3,5 / 3213069 |
| Bridge data                                                              | 14.5 A (1.5 mm²)                                                                                                                                                                                                                               |
| Ex temperature increase                                                  | 40 K (15 A / 1.5 mm²)                                                                                                                                                                                                                          |
| for bridging with bridge                                                 | 352 V                                                                                                                                                                                                                                          |
| - At bridging between non-adjacent terminal blocks                       | 220 V                                                                                                                                                                                                                                          |
| - At bridging between non-adjacent terminal blocks via PE terminal block | 220 V                                                                                                                                                                                                                                          |
| - At cut-to-length bridging                                              | 166 V                                                                                                                                                                                                                                          |
| - At cut-to-length bridging with cover                                   | 275 V                                                                                                                                                                                                                                          |
| - At cut-to-length bridging with partition plate                         | 352 V                                                                                                                                                                                                                                          |
| Rated insulation voltage                                                 | 320 V                                                                                                                                                                                                                                          |
| output                                                                   | (Permanent)                                                                                                                                                                                                                                    |

### Ex level General

|                      |        |
|----------------------|--------|
| Rated voltage        | 352 V  |
| Rated current        | 15 A   |
| Maximum load current | 15 A   |
| Contact resistance   | 1.5 mΩ |

### Ex connection data General

|                              |                      |
|------------------------------|----------------------|
| Nominal cross section        | 1.5 mm²              |
| Rated cross section AWG      | 16                   |
| Connection capacity rigid    | 0.14 mm² ... 1.5 mm² |
| Connection capacity AWG      | 26 ... 16            |
| Connection capacity flexible | 0.14 mm² ... 1.5 mm² |
| Connection capacity AWG      | 26 ... 16            |

## Dimensions

|       |        |
|-------|--------|
| Width | 3.5 mm |
|-------|--------|

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|                    |         |
|--------------------|---------|
| End cover width    | 2.2 mm  |
| Height             | 63.2 mm |
| Depth              | 30.5 mm |
| Depth on NS 35/7,5 | 32 mm   |
| Depth on NS 35/15  | 39.5 mm |

## Material specifications

|                                        |                  |
|----------------------------------------|------------------|
| Color                                  | brown (RAL 8028) |
| Flammability rating according to UL 94 | V0               |
| Insulating material group              | I                |
| Insulating material                    | PA               |

## 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

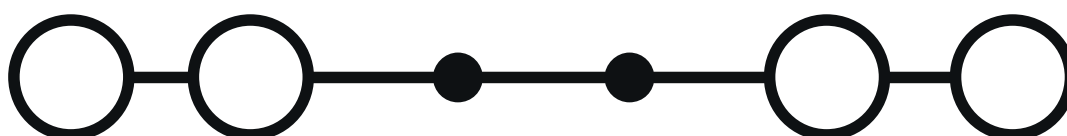
|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

## Drawings

Circuit diagram



# PT 1,5/S-QUATTRO BN - Feed-through terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1176490>

| CSA<br>Approval ID: 2030668 |                       |                       |                   |                             |
|-----------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                 | 300 V                 | 15 A                  | 26 - 14           | -                           |
| Use group C                 |                       |                       |                   |                             |
| Use group D                 | 600 V                 | 5 A                   | 26 - 14           | -                           |

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

| cULus Recognized<br>Approval ID: E60425 |                       |                       |                   |                             |
|-----------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                             | 300 V                 | 15 A                  | 26 - 14           | -                           |
| Use group C                             |                       |                       |                   |                             |
| Use group D                             | 600 V                 | 5 A                   | 26 - 14           | -                           |

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

| ClassNK<br>Approval ID: 14ME0912 |  |  |  |  |
|----------------------------------|--|--|--|--|
|----------------------------------|--|--|--|--|

| BV<br>Approval ID: 39980/B0 BV |  |  |  |  |
|--------------------------------|--|--|--|--|
|--------------------------------|--|--|--|--|

| ABS<br>Approval ID: 21-2192245-PDA |  |  |  |  |
|------------------------------------|--|--|--|--|
|------------------------------------|--|--|--|--|

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**EAC Ex**

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



**IEC Ex**

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

### 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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