

# PTS 4 - Feed-through terminal block



3213601

<https://www.phoenixcontact.com/us/products/3213601>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, connection method: Push-in connection, Rated cross section: 4 mm<sup>2</sup>, 1 level, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- 2, 3, and 4-conductor terminal blocks with the same shape
- Ground terminal blocks of the same shape are available
- The PTS 2,5, which is equipped with four bridge shafts, offers a wide range of potential bridging options
- Angled conductor entry for use in flat terminal boxes
- Large space saving when used in concealed wiring systems

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3213601             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE22                |
| Product key                          | BE2211              |
| Catalog page                         | Page 107 (C-1-2019) |
| GTIN                                 | 4055626084855       |
| Weight per piece (including packing) | 9.53 g              |
| Weight per piece (excluding packing) | 9.53 g              |
| Customs tariff number                | 85369010            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| Product family        | PTS                         |
| Area of application   | Machine building            |
|                       | Plant engineering           |
|                       | Process industry            |
| Number of connections | 2                           |
| 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 | 2                 |
| Nominal cross section           | 4 mm <sup>2</sup> |

#### 1 level

|                                                                                           |                                                              |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Stripping length                                                                          | 10 mm ... 12 mm                                              |
| Internal cylindrical gage                                                                 | A4                                                           |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                                |
| Conductor cross section rigid                                                             | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>                    |
| Cross section AWG                                                                         | 24 ... 10 (converted acc. to IEC)                            |
| Conductor cross section flexible                                                          | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>                    |
| Conductor cross section, flexible [AWG]                                                   | 24 ... 10 (converted acc. to IEC)                            |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>                   |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.25 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 current                                                                           | 32 A                                                         |
| Maximum load current                                                                      | 38 A (with 6 mm <sup>2</sup> conductor cross section, rigid) |
| Nominal voltage                                                                           | 800 V                                                        |
| Nominal cross section                                                                     | 4 mm <sup>2</sup>                                            |

#### 1 level Connection cross sections directly pluggable

|                                                                   |                                           |
|-------------------------------------------------------------------|-------------------------------------------|
| Conductor cross section rigid                                     | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> |

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## 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                           | 3213600 D-PTS 4<br>3024481 ATP-ST 6<br>1204517 SZF 1-0,6X3,5<br>3022276 CLIPFIX 35-5<br>3022218 CLIPFIX 35                                                                                   |
| List of bridges                                    | 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                                        | 27 A (4 mm²)                                                                                                                                                                                 |
| Ex temperature increase                            | 40 K (31 A / 4 mm²)                                                                                                                                                                          |
| for bridging with bridge                           | 550 V                                                                                                                                                                                        |
| - At bridging between non-adjacent terminal blocks | 352 V                                                                                                                                                                                        |
| - At cut-to-length bridging with cover             | 352 V                                                                                                                                                                                        |
| - At cut-to-length bridging with partition plate   | 352 V                                                                                                                                                                                        |
| Rated insulation voltage                           | 500 V                                                                                                                                                                                        |
| output                                             | (Permanent)                                                                                                                                                                                  |

### Ex level General

|                      |              |
|----------------------|--------------|
| Maximum load current | 33 A (6 mm²) |
| Contact resistance   | 0.71 mΩ      |

### Ex connection data General

|                                                                                      |                   |
|--------------------------------------------------------------------------------------|-------------------|
| Nominal cross section                                                                | 4 mm²             |
| Rated cross section AWG                                                              | 12                |
| Connection capacity rigid                                                            | 0.2 mm² ... 6 mm² |
| Connection capacity AWG                                                              | 24 ... 10         |
| Connection capacity flexible                                                         | 0.2 mm² ... 4 mm² |
| Connection capacity AWG                                                              | 24 ... 12         |
| Conductor cross section flexible, with ferrule without plastic sleeve min.           | 0.25 mm²          |
| Conductor cross section flexible, with ferrule without plastic sleeve max.           | 6 mm²             |
| Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG | 24 ... 10         |

## Dimensions

|       |        |
|-------|--------|
| Width | 6.2 mm |
|-------|--------|

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|                    |         |
|--------------------|---------|
| End cover width    | 2.2 mm  |
| Height             | 62.4 mm |
| Depth on NS 35/7,5 | 43 mm   |
| Depth on NS 35/15  | 50.5 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          |
| 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          |

## 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                             |
| Short-time withstand current 6 mm <sup>2</sup> | 0.72 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

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## Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 35       |
| Test force setpoint     | 1 N         |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross section/weight | 0.2 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):2008-03            |
| 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                   | 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; |
|---------------------------------|--------------------------------------------------------------------|

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|                                          |                                                                           |
|------------------------------------------|---------------------------------------------------------------------------|
|                                          | 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/3213601>

|  <b>CSA</b><br>Approval ID: 2030668 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                          | 600 V                 | 30 A                  | 24 - 10           | -                           |
|                                                                                                                      |                       |                       |                   |                             |
| Use group C                                                                                                          | 600 V                 | 30 A                  | 24 - 10           | -                           |
|                                                                                                                      |                       |                       |                   |                             |

|                                                                                                                                   |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <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 $\text{mm}^2$ |
| Use group B                                                                                                                        | 600 V                 | 30 A                  | 24 - 10           | -                           |
|                                                                                                                                    |                       |                       |                   |                             |
| Use group C                                                                                                                        | 600 V                 | 30 A                  | 24 - 10           | -                           |
|                                                                                                                                    |                       |                       |                   |                             |

|                                       |  |  |  |  |
|---------------------------------------|--|--|--|--|
| <b>DNV</b><br>Approval ID: TAE000010T |  |  |  |  |
|---------------------------------------|--|--|--|--|

|                                                                                                                                    |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>IECEx</b><br>Approval ID: IECExKIWA17.0026U |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                                                                                                                                 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>ATEX</b><br>Approval ID: KIWA17ATEX0048U |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                                                                                                                                 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>CCC</b><br>Approval ID: 2020322313000631 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                                                                                                                                     |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>UKCA-EX</b><br>Approval ID: CSAE 21UKEX3607U |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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**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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