

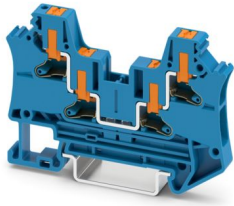
PTV 4-QUATTRO BU - Feed-through terminal block



1088735

<https://www.phoenixcontact.com/us/products/1088735>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 32 A, number of connections: 4, connection method: Push-in connection, Rated cross section: 4 mm², cross section: 0.2 mm² - 6 mm², 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 | 1088735 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE23 |
| Product key | BE2313 |
| GTIN | 4055626890562 |
| Weight per piece (including packing) | 12.14 g |
| Weight per piece (excluding packing) | 11.207 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

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Technical data

Notes

General

| | |
|------|--|
| Note | The max. load current must not be exceeded by the total current of all connected conductors. |
|------|--|

Product properties

| | |
|-----------------------|--------------------------------|
| Product type | Multi-conductor terminal block |
| Product family | PTV |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| | Process industry |
| 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 | 1.02 W |

Connection data

| | |
|---|--|
| Number of connections per level | 4 |
| Nominal cross section | 4 mm ² |
| Connection method | Push-in connection |
| Stripping length | 9 mm ... 11 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.2 mm ² ... 6 mm ² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm ² ... 6 mm ² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.2 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.2 mm ² ... 4 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm ² ... 2.5 mm ² |
| Nominal cross section | 4 mm ² |
| Nominal current | 32 A |
| Maximum load current | 38 A (with 6 mm ² conductor cross-section, rigid) |

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| | |
|---|--|
| Nominal voltage | 1000 V |
| Connection cross sections directly pluggable | |
| Conductor cross-section rigid | 0.75 mm ² ... 6 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1.5 mm ² ... 4 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1.5 mm ² ... 4 mm ² |

Ex data

Rated data (ATEX/IECEx)

| | |
|--|-------------------------------------|
| Identification | ⊕ II 2 G Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C |
| Ex-certified accessories | 1088748 D-PTV 2,5/4-QUATTRO |
| | 1083618 DS-PTV 2,5/4 |
| | 3047196 ATP-UT-QUATTRO |
| | 1212587 SF-SL 0,6X3,5-100 S-VDE |
| | 3022276 CLIPFIX 35-5 |
| List of bridges | Plug-in bridge / FBS 2-6 / 3030336 |
| | Plug-in bridge / FBS 3-6 / 3030242 |
| | Plug-in bridge / FBS 4-6 / 3030255 |
| | Plug-in bridge / FBS 5-6 / 3030349 |
| | Plug-in bridge / FBS 10-6 / 3030271 |
| | Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data | 27 A (4 mm ²) |
| | 40 K (27,6 A / 4 mm ²) |
| Ex temperature increase for bridging with bridge | 550 V |
| - At bridging between non-adjacent terminal blocks | 550 V |
| - At cut-to-length bridging | 275 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 | 27 A (4 mm ²) |
| Maximum load current | 31 A (6 mm ²) |
| Contact resistance | 0.7 mΩ |

Ex connection data General

| | |
|------------------------------|---|
| Nominal cross section | 4 mm ² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.2 mm ² ... 6 mm ² |
| Connection capacity AWG | 24 ... 10 |
| Connection capacity flexible | 0.2 mm ² ... 6 mm ² |

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| | |
|-------------------------|-----------|
| Connection capacity AWG | 24 ... 10 |
|-------------------------|-----------|

Dimensions

| | |
|--------------------|---------|
| Width | 6.2 mm |
| End cover width | 2.2 mm |
| Height | 69.2 mm |
| Depth | 45.7 mm |
| Depth on NS 35/7,5 | 47.2 mm |
| Depth on NS 35/15 | 54.7 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 |

Electrical tests

Surge voltage test

| | |
|--|-------------|
| Result | Test passed |
| Short-time withstand current 4 mm ² | 0.48 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

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| | |
|--|------------------------------|
| Result | Test passed |
| Test for conductor damage and slackening | |
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.2 mm ² / 0.2 kg |
| | 4 mm ² / 0.9 kg |
| | 6 mm ² / 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):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 ²) ² /Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-----------------------------------|
| 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 |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

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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



PTV 4-QUATTRO BU - Feed-through terminal block



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1088735>

|  CSA Approval ID: 158887 | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 600 V | 30 A | 26 - 10 | - |
| C | 600 V | 30 A | 26 - 10 | - |
| D | 600 V | 5 A | 26 - 10 | - |

|  IECEE CB Scheme Approval ID: DE1-67139 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | 1000 V | 32 A | - | 0.2 - 6 |

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

|  cULus Recognized Approval ID: E60425 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 600 V | 30 A | 26 - 10 | - |
| C | 600 V | 30 A | 26 - 10 | - |
| F | 1000 V | 30 A | 26 - 10 | - |

|  VDE Zeichengenehmigung Approval ID: 40056318 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | 1000 V | 32 A | - | 0.2 - 6 |

|  IECEx Approval ID: IECExPTB20.0037U | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

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ATEX

Approval ID: PTB20ATEX1016U



CCC

Approval ID: 2021122313114374



UKCA-EX

Approval ID: CSAE 22UKEX1099U



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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