

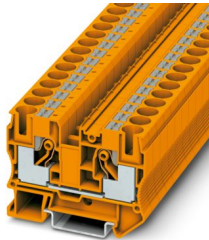
PT 10 OG - Feed-through terminal block



3212124

<https://www.phoenixcontact.com/us/products/3212124>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 2, connection method: Push-in connection, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: NS 35/7,5, NS 35/15, color: orange

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
- Optimized for manual and automated wiring

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3212124 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE22 |
| Product key | BE2211 |
| GTIN | 4046356897846 |
| Weight per piece (including packing) | 27.23 g |
| Weight per piece (excluding packing) | 26.197 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

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Technical data

Product properties

| | |
|-----------------------|-----------------------------|
| Product type | Feed-through terminal block |
| Product family | PT |
| 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 | 1.82 W |

Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 10 mm ² |
| Connection method | Push-in connection |
| Stripping length | 18 mm ... 20 mm |
| Internal cylindrical gage | A6 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.5 mm ² ... 16 mm ² |
| Cross section AWG | 20 ... 6 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm ² ... 16 mm ² |
| Conductor cross-section, flexible [AWG] | 20 ... 6 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm ² ... 10 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm ² ... 10 mm ² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 1.5 mm ² ... 4 mm ² |
| Nominal cross section | 10 mm ² |
| Nominal current | 57 A |
| Maximum load current | 70 A (with a 16 mm ² conductor cross-section, rigid) |
| Nominal voltage | 1000 V |

Connection cross sections directly pluggable

| | |
|---|--|
| Conductor cross-section rigid | 1 mm ² ... 16 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 4 mm ² ... 10 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 2.5 mm ² ... 10 mm ² |

Ex data

Rated data (ATEX/IECEx)

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3212124

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| | |
|---------------------------------|-------------------------------------|
| 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 | 3212057 D-PT 10 |
| | 1204517 SZF 1-0,6X3,5 |
| | 3022276 CLIPFIX 35-5 |
| | 3022218 CLIPFIX 35 |
| List of bridges | Plug-in bridge / FBS 2-10 / 3005947 |
| | Plug-in bridge / FBS 5-10 / 3005948 |
| Bridge data | 48 A (10 mm ²) |
| Ex temperature increase | 40 K (52.5 A / 10 mm ²) |
| for bridging with bridge | 550 V |
| Rated insulation voltage | 500 V |
| output | (Permanent) |

Ex level General

| | |
|----------------------|---------|
| Rated voltage | 550 V |
| Rated current | 52.5 A |
| Maximum load current | 61.5 A |
| Contact resistance | 0.43 mΩ |

Ex connection data General

| | |
|------------------------------|--|
| Nominal cross section | 10 mm ² |
| Rated cross section AWG | 8 |
| Connection capacity rigid | 0.5 mm ² ... 16 mm ² |
| Connection capacity AWG | 20 ... 6 |
| Connection capacity flexible | 0.5 mm ² ... 10 mm ² |
| Connection capacity AWG | 20 ... 8 |

Dimensions

| | |
|--------------------|---------|
| Width | 10.2 mm |
| End cover width | 2.2 mm |
| Height | 67.7 mm |
| Depth | 49.5 mm |
| Depth on NS 35/7,5 | 50.5 mm |
| Depth on NS 35/15 | 58 mm |

Material specifications

| | |
|--|-------------------|
| Color | orange (RAL 2003) |
| 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 |

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3212124

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

| | |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV |
| Result | Test passed |

Temperature-rise test

| | |
|---|-------------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 10 mm ² | 1.2 kA |
| Short-time withstand current 16 mm ² | 1.92 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

| | |
|-------------------------|-------------|
| DIN rail/fixing support | NS 35 |
| Test force setpoint | 5 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|--------------------------------|------------------------------|
| Rotation speed | 10 (+/- 2) rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 0.5 mm ² / 0.3 kg |
| | 10 mm ² / 2 kg |
| | 16 mm ² / 2.9 kg |
| Result | Test passed |

Environmental and real-life conditions

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Service life

| | |
|-----------------------------|-----|
| Insertion/withdrawal cycles | 100 |
|-----------------------------|-----|

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):2022-06 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$ |
| Acceleration | 30.6 m/s^2 |
| 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 | 300 m/s^2 |
| 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 % |

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/3212124>

|  CSA Approval ID: 158887 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | 600 V | 55 A | 20 - 6 | - |
| C | 600 V | 55 A | 20 - 6 | - |


|  IECEE CB Scheme Approval ID: DE1-62942 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | 1000 V | 57 A | - | - |

|  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 | 60 A | 20 - 6 | - |
| C | 600 V | 60 A | 20 - 6 | - |
| F | 1000 V | 60 A | 20 - 6 | - |

|  LR Approval ID: LR2371832TA | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  NK Approval ID: 22ME0007 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

|  VDE Zeichengenehmigung Approval ID: 40038590 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |

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| | | | | |
|-------|--------|------|---|----------|
| keine | | | | |
| | 1000 V | 57 A | - | 0.5 - 10 |



PRC

Approval ID: TE/2107/880590/21

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 mm^2 |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine | | | | |
| | 550 V | 60 A | 20 - 6 | - |



EAC Ex

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



IEC Ex

Approval ID: IECEx SEV13.0005U



UL Recognized

Approval ID: E192998

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine | | | | |
| | 550 V | 60 A | 20 - 6 | - |



ATEX

Approval ID: SEV13ATEX0159U



CCC

Approval ID: 2020322313000631



EAC Ex

PT 10 OG - Feed-through terminal block



3212124

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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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