

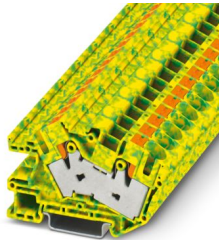
PTI 16/S-PE - Installation protective conductor terminal block



3214024

<https://www.phoenixcontact.com/us/products/3214024>

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Installation protective conductor terminal block, Push-in connection, 1 level, cross section: 0.5 mm² - 16 mm², mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Your advantages

- Compatible with all Phoenix Contact installation terminal blocks
- As well as the testing facility in the function shaft, each terminal point has a test contact
- Each terminal point can be clearly labeled and easily recognized in every terminal block mounting position
- Compact design tailored to distribution boards
- The new Push-in connection technology enables easy, direct insertion of solid and stranded conductors with ferrules with a cross section of 0.34 mm² or higher

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3214024 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE22 |
| Product key | BE2251 |
| GTIN | 4046356702232 |
| Weight per piece (including packing) | 35.8 g |
| Weight per piece (excluding packing) | 34.48 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|-----------------------|-----------------------|
| Product type | Ground terminal block |
| Number of connections | 2 |
| Number of rows | 1 |
| Potentials | 2 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 2.43 W |

Connection data

| | |
|---------------------------------|--------------------|
| PEN function | yes |
| Grounding foot | Yes |
| Number of connections per level | 2 |
| Nominal cross section | 16 mm ² |

1 level

| | |
|---|--|
| Connection method | Push-in connection |
| Stripping length | 18 mm |
| Internal cylindrical gage | A6 |
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-2 |
| Conductor cross-section rigid | 0.5 mm ² ... 16 mm ² |
| Cross section AWG | 24 ... 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 ... 16 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm ² ... 16 mm ² |

1 level 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 ... 16 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 2.5 mm ² ... 16 mm ² |

Dimensions

| | |
|--------------------|---------|
| Width | 10.2 mm |
| End cover width | 2.2 mm |
| Height | 77.7 mm |
| Depth | 49.6 mm |
| Depth on NS 35/7,5 | 51.1 mm |

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| | |
|-------------------|---------|
| Depth on NS 35/15 | 58.6 mm |
|-------------------|---------|

Material specifications

| | |
|---|--------------|
| Color | green-yellow |
| 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 |

Mechanical properties

Mechanical data

| | |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

Environmental and real-life conditions

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 ²) ² /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 |

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

Standards and regulations

| | |
|----------------------------------|-----------------------------|
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-2 |
|----------------------------------|-----------------------------|

Mounting

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

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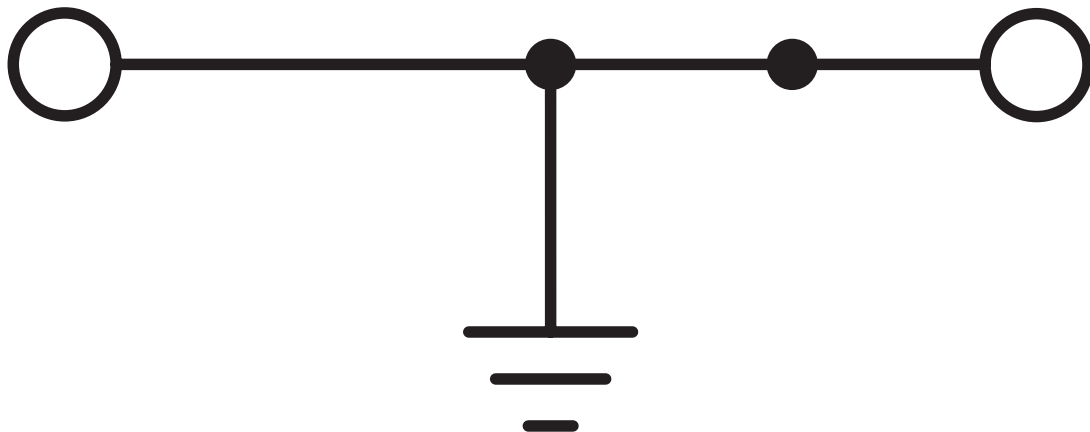


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Drawings

Circuit diagram



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Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3214024>

 **CSA**
Approval ID: 158887

 **IECEE CB Scheme**
Approval ID: DE1-63059

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine | | | | |
| | - | 76 A | - | 0.5 - 16 |

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

 **VDE Zeichengenehmigung**
Approval ID: 40050355

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|----------------------|
| keine | | | | |
| | - | 76 A | - | 0.5 - 16 |

 **cULus Recognized**
Approval ID: E60425

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|---|-----------------------|-----------------------|-------------------|----------------------|
| B | | | | |
| | - | - | 24 - 4 | - |
| C | | | | |
| | - | - | 24 - 4 | - |
| D | | | | |
| | - | - | 24 - 4 | - |

 **EAC**
Approval ID: KZ7500651131219505

 **CSA**
Approval ID: 13631

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250110 |
| ECLASS-15.0 | 27250110 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001329 |
|-----------|----------|

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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.426 kg CO2e |
|---------|---------------|

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