

PT 1,5/S-PE - Protective conductor terminal block



3208139

<https://www.phoenixcontact.com/us/products/3208139>

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Protective conductor terminal block, number of connections: 2, connection method: Push-in connection, 1 level, cross section: $0.14 \text{ mm}^2 - 1.5 \text{ mm}^2$, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Your advantages

- Time-saving conductor connection thanks to tool-free direct-connection technology
- Vibration-resistant and maintenance-free conductor connection
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Meet the requirements of DIN EN 60947-7-2 or IEC 60947-7-2 for protective conductor connections
- High level of safety thanks to the low-resistance connection to the ground potential via the top-hat rail
- Direct contacting with the DIN rail enables fast, error-free grounding without additional wiring effort.

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3208139 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE22 |
| Product key | BE2221 |
| GTIN | 4046356564434 |
| Weight per piece (including packing) | 5.39 g |
| Weight per piece (excluding packing) | 5.39 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|-----------------------|-----------------------|
| Product type | Ground terminal block |
| Product family | PT |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| Number of connections | 2 |
| Number of rows | 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

| | |
|---------------------------------|---------------------|
| Grounding foot | Yes |
| Number of connections per level | 2 |
| Nominal cross section | 1.5 mm ² |

1 level

| | |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Connection method | Push-in connection |
| Note | Please observe the current carrying capacity of the DIN rails. |
| Stripping length | 8 mm ... 10 mm |
| Internal cylindrical gage | A1 / B1 |
| Connection in acc. with standard | IEC 60947-7-2 |
| Conductor cross-section rigid | 0.14 mm ² ... 1.5 mm ² |
| Cross section AWG | 26 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible [AWG] | 26 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm ² ... 1.5 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.14 mm ² ... 1 mm ² (Using the AI-S 1-8 TQ ferrule, Item No. 1200293, is recommended) |

1 level Connection cross sections directly pluggable

| | |
|-------------------------------------------------------------------|----------------------------------------------|
| Conductor cross-section rigid | 0.25 mm ² ... 1.5 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm ² ... 1.5 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.34 mm ² ... 1 mm ² |

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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 | 3208142 D-PT 1,5/S 1204504 SZF 0-0,4X2,5 3022276 CLIPFIX 35-5 3022218 CLIPFIX 35 |
| output | (Permanent) |

Ex connection data General

| | |
|------------------------------|----------------------------------------------|
| Nominal cross section | 1.5 mm ² |
| Rated cross section AWG | 16 |
| Connection capacity rigid | 0.14 mm ² ... 1.5 mm ² |
| Connection capacity AWG | 26 ... 16 |
| Connection capacity flexible | 0.14 mm ² ... 1.5 mm ² |
| Connection capacity AWG | 26 ... 16 |

Dimensions

| | |
|--------------------|---------|
| Width | 3.5 mm |
| End cover width | 2.2 mm |
| Height | 45 mm |
| Depth | 30.5 mm |
| Depth on NS 35/7,5 | 32 mm |
| Depth on NS 35/15 | 39.5 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)) | 125 °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) | 27,5 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 |

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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)/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; 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 60947-7-2 |
|----------------------------------|---------------|

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/3208139>

|  CSA Approval ID: 158887 | | | | |
|---------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | - | - | 26 - 14 | - |

|  cULus Recognized Approval ID: E60425 | | | | |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | - | - | 26 - 14 | - |
| C | - | - | 26 - 14 | - |
| D | - | - | 26 - 14 | - |


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

|  ClassNK NK Approval ID: 14ME0912 | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  VDE Zeichengenehmigung Approval ID: 40039744 | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | - | - | - | 0.14 - 1.5 |

| ABS Approval ID: 21-2192245-PDA | | | | |
|-------------------------------------------|--|--|--|--|
|-------------------------------------------|--|--|--|--|

| DNV Approval ID: TAE000010T | | | | |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

|  EAC Ex Approval ID: RU C-DE.AB72.B.02351 | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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IECEX

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 | 27250103 |
| ECLASS-15.0 | 27250103 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC000901 |
|-----------|----------|

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 | 0.039 kg CO2e |
|---------|---------------|

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