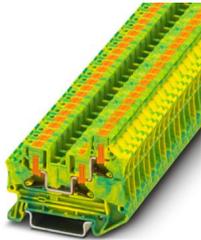


PTV 6-TWIN-PE - Ground terminal

1116739

<https://www.phoenixcontact.com/sg/products/1116739>

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Ground terminal, number of connections: 3, number of positions: 1, connection method: Push-in connection, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², mounting type: NS 35/7,5, NS 35/15, color: green/yellow

Your advantages

- Clear wiring, thanks to lateral conductor entry
- The compact design enables wiring in a confined space
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1116739 |
| Packing unit | 50 pc |
| Minimum order quantity | 1 pc |
| Sales key | ***** |
| Product key | BE2322 |
| GTIN | 4063151043612 |
| Weight per piece (including packing) | 23.44 g |
| Weight per piece (excluding packing) | 23.6 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

Technical data

Notes

General

| | |
|------|---|
| Note | When establishing a connection on the open housing side of a feed-through modular terminal block of the same series and size, the block must be provided with a cover if the expected insulation voltage is >690 V. |
|------|---|

Product properties

| | |
|-----------------------|-----------------------|
| Product type | Ground terminal block |
| Product family | PTV |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| | Process industry |
| Number of positions | 1 |
| Number of connections | 3 |
| Number of rows | 1 |

Insulation characteristics

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

Electrical properties

| | |
|---|------|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 0 W |

Connection data

| | |
|---|--|
| Number of connections per level | 3 |
| Nominal cross section | 6 mm ² |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A5 |
| Connection in acc. with standard | IEC 60947-7-2 |
| Conductor cross section rigid | 0.5 mm ² ... 10 mm ² |
| Cross section AWG | 20 ... 8 (converted acc. to IEC) |
| Conductor cross section flexible | 0.5 mm ² ... 10 mm ² |
| Conductor cross section, flexible [AWG] | 20 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm ² ... 6 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.5 mm ² ... 6 mm ² |
| Nominal cross section | 6 mm ² |

Connection cross sections directly pluggable

| | |
|--------------------------------------|--|
| Conductor cross section rigid | 1.5 mm ² ... 10 mm ² |
| Conductor cross section, rigid [AWG] | 16 ... 8 (converted acc. to IEC) |

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| | |
|---|---|
| Conductor cross-section flexible (ferrule without plastic sleeve) | 4 mm ² ... 6 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 2.5 mm ² ... 6 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 | 1180923 D-PTV 6-TWIN |
| | 3022276 CLIPFIX 35-5 |
| | 1212602 SZS 0,6X3,5 VDE |
| output | (Permanent) |

Ex connection data General

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

Dimensions

| | |
|--------------------|---------|
| Width | 8.2 mm |
| End cover width | 2.2 mm |
| Height | 72.9 mm |
| Depth | 57.6 mm |
| Depth on NS 35/7,5 | 59.1 mm |
| Depth on NS 35/15 | 66.6 mm |

Material specifications

| | |
|---|--------------|
| Color | green-yellow |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA 6.6 |
| 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 |

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| | |
|--|--------|
| 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):2018-05 |
| Spectrum | Service 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 | 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):2018-05 |
| 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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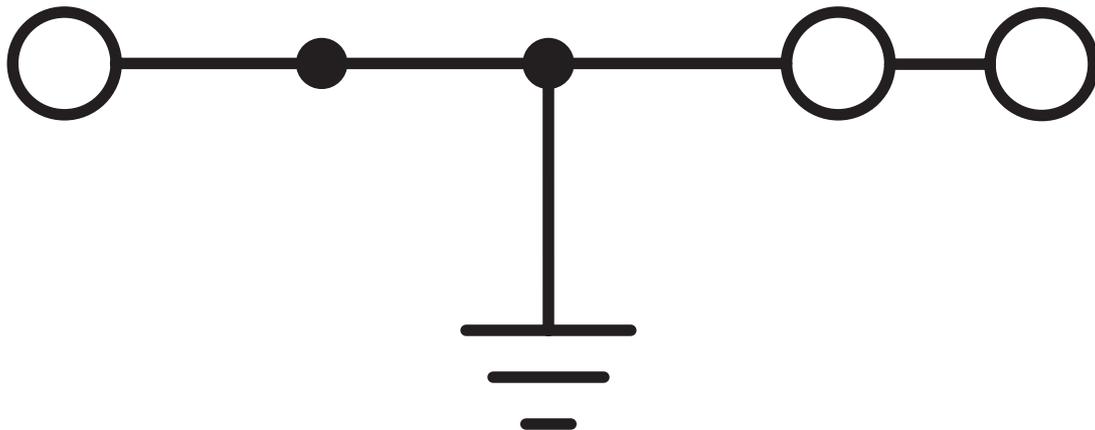


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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/1116739>



cULus Recognized

Approval ID: E60425



EAC

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



IECEE CB Scheme

Approval ID: DE1-67002

| Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-----------------------|-----------------------|-------------------|-----------------------------|
| - | - | - | 0.5 - 6 |



VDE approval of drawings

Approval ID: 40056080

| Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-----------------------|-----------------------|-------------------|-----------------------------|
| - | - | - | 0.5 - 6 |



cULus Recognized

Approval ID: E60425



IECEx

Approval ID: IECExPTB20.0037U



ATEX

Approval ID: PTB20ATEX1016U



UKCA-EX

Approval ID: CSAE 22UKEX1099U



EAC Ex

Approval ID: KZ 7500525010101950

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250103 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | 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% |
|-------------------------------------|----------------------------|

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