

3001420

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Ground terminal, connection method: Screw connection, 1 level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², Screw connection, 1st level connection right, Rated cross section: 4 mm², cross section: 0.2 mm² - 6 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: green-yellow

### Your advantages

- Same shape and pitch as the feed-through terminal blocks
- Universal protective conductor foot for mounting on NS 35... or NS 32... DIN rails (with the exception of NS 35/15-2,3)

#### Commercial data

| Item number                          | 3001420             |
|--------------------------------------|---------------------|
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Product key                          | BE1212              |
| Catalog page                         | Page 469 (C-1-2019) |
| GTIN                                 | 4017918089894       |
| Weight per piece (including packing) | 34.75 g             |
| Weight per piece (excluding packing) | 34.75 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      | 3                     |
| Number of rows             | 2                     |
| 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 mm² |

#### 1 level

| Screw thread  | M4   |
|---|--|
| Note  | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque   | 1.5 1.8 Nm   |
| Stripping length  | 11 mm  |
| Connection in acc. with standard                                  | IEC 60947-7-2  |
| Conductor cross section rigid                                     | 0.5 mm² 16 mm²   |
| Cross section AWG   | 20 6 (converted acc. to IEC)                                   |
| Conductor cross section flexible                                  | 0.5 mm <sup>2</sup> 10 mm <sup>2</sup>                         |
| Conductor cross section, flexible [AWG]                           | 20 8 (converted acc. to IEC)                                   |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² 10 mm²   |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.5 mm² 6 mm²  |
| Nominal cross section   | 10 mm²   |

#### 1st level connection right

| Screw thread  | M3                            |
|---|-------------------------------|
| Tightening torque   | 0.6 0.8 Nm                    |
| Stripping length  | 7 mm                          |
| Connection in acc. with standard                                  | IEC 60947-7-2                 |
| Conductor cross section rigid                                     | 0.2 mm² 6 mm²                 |
| Cross section AWG   | 24 10 (converted acc. to IEC) |
| Conductor cross section flexible                                  | 0.2 mm² 4 mm²                 |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² 4 mm²                |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.25 mm² 4 mm²                |
| Nominal cross section   | 4 mm²                         |



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#### **Dimensions**

| Width              | 10.2 mm |
|--------------------|---------|
| Height             | 53 mm   |
| Depth on NS 32     | 52 mm   |
| Depth on NS 35/7,5 | 47 mm   |
| Depth on NS 35/15  | 54.5 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)) | 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

#### General

| Central                 |   |
|-------------------------|---|
| Terminal block mounting | 1.5 Nm 1.8 Nm (PE foot with mounting screw, M4) |
| Mechanical data         |   |
| Open side panel         | No  |

#### Environmental and real-life conditions

#### 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



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| Connection in acc. with standard | IEC 60947-7-2                                   |
|----------------------------------|---|
|                                  | IEC 60947-7-2                                   |
| Mounting                         |   |
| Mounting type                    | NS 35/7,5                                       |
|                                  | NS 35/15  |
|                                  | NS 32   |
| Terminal block mounting          | 1.5 Nm 1.8 Nm (PE foot with mounting screw, M4) |

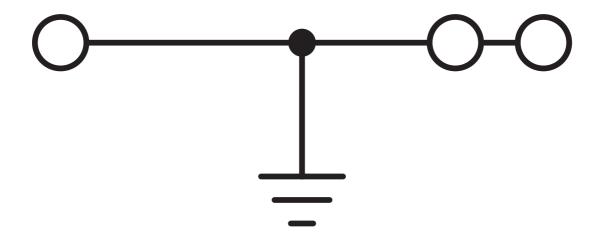


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# Drawings

Circuit diagram





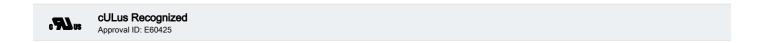
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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/3001420

| CSA Approval ID: 13631 |                                |                                |                   |                               |
|------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                        | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| Feed-through           | -                              | -                              | 24 - 6            | -                             |
| Pick-off               | -                              | -                              | 28 - 12           | -                             |





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# Classifications

UNSPSC 21.0

#### **ECLASS**

|        | ECLASS-11.0 | 27141141 |  |
|--------|-------------|----------|--|
|        | ECLASS-13.0 | 27250103 |  |
| ETIM   |             |          |  |
|        | ETIM 9.0    | EC000901 |  |
| UNSPSC |             |          |  |

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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