

# UT 16-PE/S - Ground terminal



3215915

<https://www.phoenixcontact.com/sg/products/3215915>

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Ground terminal, with screwfix, number of connections: 2, connection method: Screw connection, Rated cross section: 16 mm<sup>2</sup>, cross section: 1.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, mounting method: PE foot with mounting screw, M4, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 3215915                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | *****                          |
| Product key                          | BE1121                         |
| Catalog page                         | Page 185 (C-1-2019)            |
| GTIN                                 | 4046356595803                  |
| Weight per piece (including packing) | 56.494 g                       |
| Weight per piece (excluding packing) | 54 g                           |
| Customs tariff number                | 85369010                       |
| Country of origin                    | CN                             |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Number of connections | 2                     |
| 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 | 2.43 W |

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 2                  |
| Nominal cross section           | 16 mm <sup>2</sup> |

### Level 1 above 1 below 1

|                                                                   |                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------|
| Screw thread                                                      | M5                                                             |
| Note                                                              | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque                                                 | 2.5 ... 3 Nm                                                   |
| Stripping length                                                  | 14 mm                                                          |
| Internal cylindrical gage                                         | A7                                                             |
| Connection in acc. with standard                                  | IEC 60947-7-2                                                  |
| Conductor cross section rigid                                     | 1.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>                     |
| Cross section AWG                                                 | 14 ... 4 (converted acc. to IEC)                               |
| Conductor cross section flexible                                  | 1.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>                     |
| Conductor cross section, flexible [AWG]                           | 14 ... 4 (converted acc. to IEC)                               |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm <sup>2</sup> ... 16 mm <sup>2</sup>                       |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 1 mm <sup>2</sup> ... 16 mm <sup>2</sup>                       |
| Nominal cross section                                             | 16 mm <sup>2</sup>                                             |

### Dimensions

|                    |         |
|--------------------|---------|
| Width              | 12.2 mm |
| End cover width    | 2.2 mm  |
| Height             | 55.5 mm |
| Depth on NS 35/7,5 | 55 mm   |
| Depth on NS 35/15  | 62.5 mm |

### Material specifications

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

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

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| Terminal block mounting | 1.5 Nm ... 1.8 Nm (PE foot with mounting screw, M4) |
|-------------------------|-----------------------------------------------------|

### Mechanical data

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

## Environmental and real-life conditions

### Oscillation/broadband noise

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Spectrum               | Service life test category 1, class B, body mounted |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$      |
| ASD level              | $1.857 \text{ (m/s}^2\text{)}^2\text{/Hz}$          |
| Acceleration           | 0.8g                                                |
| 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                   | 5g                                  |
| Shock duration                 | 30 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.) |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|

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

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|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                                      | 600 V                 | -                     | 16 - 4            | -                           |
| Use group C                                                                                                                      | 600 V                 | -                     | 16 - 4            | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141141 |
| 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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