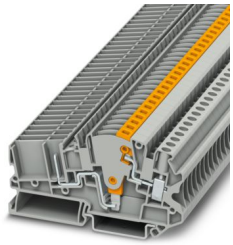
# UTME 4-CT/1P - Test disconnect terminal block

3057432

https://www.phoenixcontact.com/us/products/3057432

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Test disconnect terminal block, nom. voltage: 500 V, nominal current: 28 A, number of connections: 2, connection method: Screw/plug-in connection, Rated cross section: 4 mm$^2$, cross section: 0.14 mm$^2$ - 6 mm$^2$, mounting type: NS 35/7,5, NS 35/15, color: gray

## Commercial data

| | |
|---|---|
| Item number | 3057432 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE01 |
| Product key | BE1133 |
| GTIN | 4046356520126 |
| Weight per piece (including packing) | 15.734 g |
| Weight per piece (excluding packing) | 15.734 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

## Technical data

### Notes

General

| | |
|---|---|
| Note | With a free-hanging connection, an insulating foil has to be placed between the plug connection and electrically conductive surfaces. |

### Product properties

| | |
|---|---|
| Product type | Test disconnect terminal block |
| Number of connections | 2 |
| Number of rows | 1 |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 6 kV |

### Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 4 mm² |
| Connection method | Screw/plug-in connection |
| Screw thread | M3 |
| Tightening torque | 0.6 ... 0.8 Nm |
| Stripping length | 9 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.14 mm² ... 6 mm² |
| Cross section AWG | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 26 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.14 mm² ... 4 mm² |
| 2 conductors with same cross section, rigid | 0.14 mm² ... 1.5 mm² |
| 2 conductors with same cross section, flexible | 0.14 mm² ... 1.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 2.5 mm² |
| Nominal cross section | 4 mm² |
| Nominal current | 28 A |
| Maximum load current | 28 A (bei 6 mm² Leiterquerschnitt starr) |
| Nominal voltage | 500 V |

### Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| End cover width | 2.2 mm |
| Height | 86.5 mm |
| Depth on NS 35/7,5 | 49.5 mm |
| Depth on NS 35/15 | 57 mm |

## Material specifications

| | |
|---|---|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °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 |
| 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 |

## Electrical tests

### Surge voltage test

| | |
|---|---|
| Test voltage setpoint | 7.3 kV |
| Result | Test passed |
| Short-time withstand current 4 mm² | 1.25 kA |
| Result | Test passed |

### Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 1.89 kV |
| Result | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Attachment on the carrier

| | |
|---|---|
| Result | Test passed |

## Environmental and real-life conditions

### Service life

| | |
|---|---|
| Insertion/withdrawal cycles | 100 |

Needle-flame test

| | |
|---|---|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 150 Hz |
| ASD level | 0.964 (m/s²)²/Hz |
| Acceleration | 0.58g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |

Shocks

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| 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.) |

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

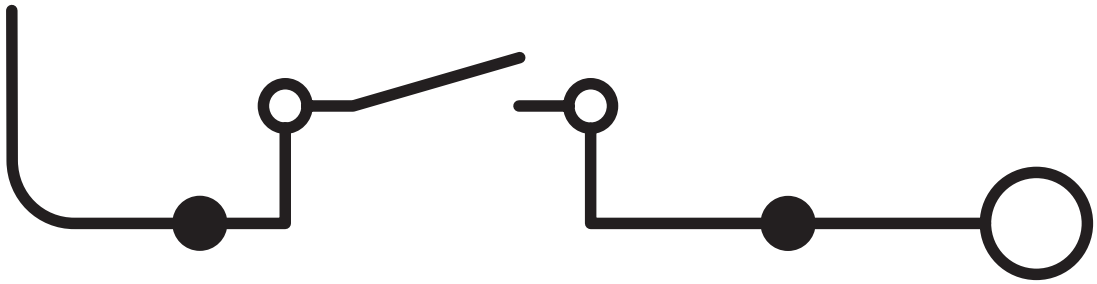
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |

## Mounting

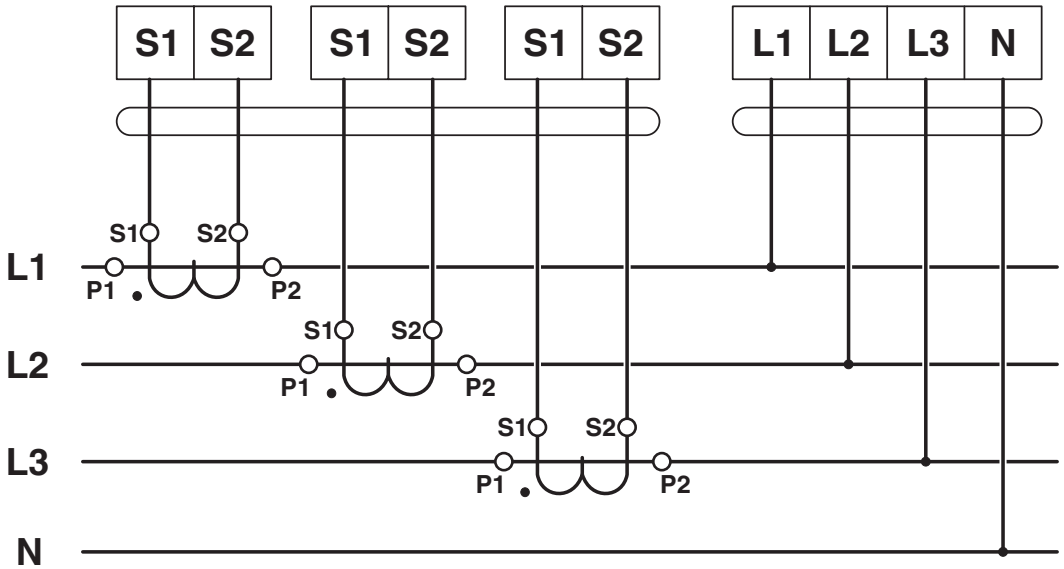
| | |
|---|---|
| Mounting type | NS 35/7,5 |
| | NS 35/15 |
| Assembly note | For isolation purposes, the screw head in NS 35/7,5 DIN rails may not exceed a height of 5 mm including the washer. |

## Drawings

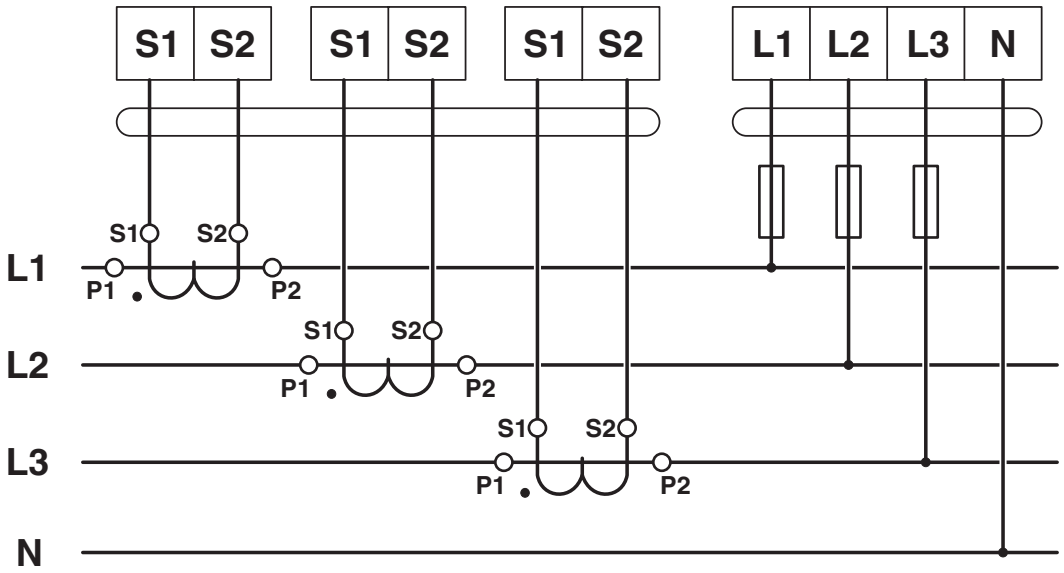
Circuit diagram



Circuit diagram



Circuit diagram



## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250109 |
| ECLASS-15.0 | 27250109 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000902 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 35ee1e35-ec86-409a-9ae8-4b6e0833e55d |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.038 kg CO2e |


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