# STU 35/ 4X10 - Potential collective terminal

3033126

https://www.phoenixcontact.com/us/products/3033126

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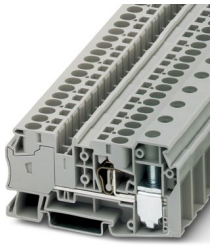

Potential collective terminal, nom. voltage: 1000 V, nominal current: 41 A, Load contact, connection method: Spring-cage connection, Rated cross section: 6 mm$^2$, cross section: 0.2 mm$^2$ - 10 mm$^2$, Line contact, connection method: Screw connection, Rated cross section: 35 mm$^2$, cross section: 1.5 mm$^2$ - 50 mm$^2$, mounting: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- The STU 35/4x10 spring-cage hybrid terminal block is used to divide a 35 mm² supply line into four 10 mm² connections
- The double bridge shaft supports further potential distributions
- Supplied using a 35 mm² screw connection
- Can be consistently bridged to standard terminal blocks in the ST spring-cage terminal block series
- The system-internal distribution is via four spring-cage connections with a nominal cross section of 10 mm²

## Commercial data

| | |
|---|---|
| Item number | 3033126 |
| Packing unit | 25 pc |
| Minimum order quantity | 25 pc |
| Sales key | BE02 |
| Product key | BE2119 |
| GTIN | 4046356094078 |
| Weight per piece (including packing) | 58.8 g |
| Weight per piece (excluding packing) | 58.04 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

## Technical data

### Notes

General

| | |
|---|---|
| Note | The maximum load current of a single clamping unit must not be exceeded. |
| | For power distribution applications, IEC 60364-4-43.2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed! |

### Product properties

| | |
|---|---|
| Product type | Hybrid terminal block |
| Product family | STU |
| Number of connections | 5 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

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

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 4.06 W |

### Connection data

| | |
|---|---|
| Type of additional hybrid connection | Web reference for UT |
| Number of connections per level | 5 |
| Nominal cross section | 35 mm² |

Load contact

| | |
|---|---|
| Connection method | Spring-cage connection |
| Stripping length | 12 mm |
| Internal cylindrical gage | A5 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.2 mm² ... 10 mm² |
| Cross section AWG | 24 ... 8 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 6 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm² ... 6 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1.5 mm² |
| Nominal cross section | 6 mm² |
| Nominal current | 41 A |

| | |
|---|---|
| Maximum load current | 41 A (in case of a 10 mm² conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors.) |
| Nominal voltage | 1000 V |

Line contact

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M6 |
| Tightening torque | 3.2 ... 3.7 Nm |
| Stripping length | 18 mm |
| Internal cylindrical gage | B9 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 1.5 mm² ... 50 mm² |
| Cross section AWG | 16 ... 1/0 (converted acc. to IEC) |
| Conductor cross-section flexible | 1.5 mm² ... 35 mm² |
| Conductor cross-section, flexible [AWG] | 16 ... 2 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1.5 mm² ... 35 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1.5 mm² ... 35 mm² |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 1.5 mm² ... 10 mm² |
| 2 conductors with same cross section, rigid | 1.5 mm² ... 16 mm² |
| 2 conductors with same cross section, flexible | 1.5 mm² ... 10 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 1.5 mm² ... 10 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 1.5 mm² ... 10 mm² |
| Nominal cross section | 35 mm² |
| Nominal current | 125 A |
| Maximum load current | 125 A (with 50 mm² conductor cross-section) |
| Nominal voltage | 1000 V |

## Dimensions

| | |
|---|---|
| Width | 16.2 mm |
| Height | 86 mm |
| Depth on NS 35/7,5 | 46.8 mm |
| Depth on NS 35/15 | 54.3 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 |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 125 °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 |

## Electrical tests

### Surge voltage test

| | |
|---|---|
| Test voltage setpoint | 9.8 kV |
| Result | Test passed |

### Temperature-rise test

| | |
|---|---|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 10 mm² | 1.2 kA |
| Short-time withstand current 6 mm² | 0.72 kA |
| Result | Test passed |

### Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 2 kV |
| Result | Test passed |

## Mechanical properties

### Mechanical data

| | |
|---|---|
| Open side panel | No |

## Mechanical tests

### Mechanical strength

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

### Attachment on the carrier

| | |
|---|---|
| DIN rail/fixing support | NS 35/7,5 |
| Result | Test passed |

### Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 1.5 mm² / 0.4 kg |
| | 35 mm² / 6.8 kg |
| | 50 mm² / 9.5 kg |
| Result | Test passed |

## Environmental and real-life conditions

### Aging

| | |
|---|---|
| Temperature cycles | 192 |
| Result | Test passed |

### Needle-flame test

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

### Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2018-05 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 150 Hz |
| ASD level | 1.857 (m/s²)²/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):2018-05 |
| 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.) |
| 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 |
| | IEC 60947-7-1 |

## Mounting

| | |
|---|---|
| Mounting type | NS 35/7,5 |
| | NS 35/15 |

## Drawings

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3033126

**UL Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| Spring-cage connection | 1000 V | 50 A | 24 - 8 | - |
| Screw connection | 1000 V | 115 A | 14 - 2 | - |
| C | | | | |
| Spring-cage connection | 1000 V | 50 A | 24 - 8 | - |
| Screw connection | 1000 V | 115 A | 14 - 2 | - |

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

**EAC**
Approval ID: KZ7500651131219505

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250201 |
| ECLASS-15.0 | 27250201 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000897 |

### UNSPSC

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

## 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 | 0.745 kg CO2e |


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