# PTU 35/4X10 - Potential collective terminal

3002371

https://www.phoenixcontact.com/us/products/3002371

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Potential collective terminal, nom. voltage: 1000 V, nominal current: 57 A, Load contact, connection method: Push-in connection, Rated cross section: 10 mm$^2$, cross section: 0.5 mm$^2$ - 16 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 terminal block base is ideal for use in building installation and machine building applications
- The compact design and front connection enable wiring in a confined space<br/>
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

## Commercial data

| | |
|---|---|
| Item number | 3002371 |
| Packing unit | 25 pc |
| Minimum order quantity | 25 pc |
| Sales key | BE22 |
| Product key | BE2219 |
| GTIN | 4055626430881 |
| Weight per piece (including packing) | 70.2 g |
| Weight per piece (excluding packing) | 71.33 g |
| Customs tariff number | 85369010 |
| Country of origin | IN |

# Technical data

## Notes

| | |
|---|---|
| Notes on operation | In the end application, the applicable safety regulations for overload and short-circuit protection on the connected conductors must be considered. |

### General

| | |
|---|---|
| Note | The max. load current must not be exceeded by the total current of all connected conductors. |

## Product properties

| | |
|---|---|
| Product type | Potential distributor |
| Product family | PTU |
| Number of connections | 5 |
| Number of rows | 1 |
| Potentials | 1 |

### Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 2 |

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 2.43 W |

## Connection data

| | |
|---|---|
| Number of connections per level | 5 |

### Load contact

| | |
|---|---|
| Connection method | Push-in connection |
| Stripping length | 18 mm ... 20 mm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 0.5 mm² ... 16 mm² |
| Cross section AWG | 20 ... 6 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.5 mm² ... 10 mm² |
| 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 ... 10 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 1.5 mm² ... 4 mm² |
| Nominal cross section | 10 mm² |
| Nominal current | 57 A |
| Maximum load current | 57 A |
| Nominal voltage | 1000 V |

### Line contact

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M6 |
| Tightening torque | 3.2 ... 3.7 Nm |
| Stripping length | 18 mm ... 20 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 | 14 ... 2 (converted acc. to IEC) |
| Conductor cross-section flexible | 1.5 mm² ... 35 mm² |
| Conductor cross-section, flexible [AWG] | 14 ... 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 |
| 2 conductors with same cross section, rigid | 1.5 mm² ... 16 mm² |
| 2 conductors with the same cross-section AWG rigid | 16 ... 6 (converted acc. to IEC) |
| 2 conductors with same cross section, flexible | 1.5 mm² ... 10 mm² |
| 2 conductors with the same cross-section AWG flexible | 16 ... 8 (converted acc. to IEC) |
| 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 | 101 A |
| Maximum load current | 101 A (The maximum load current must not be exceeded by the total current of all connected conductors.) |
| Nominal voltage | 1000 V |

Load contact Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross-section rigid | 1 mm² ... 16 mm² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 4 mm² ... 10 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 2.5 mm² ... 10 mm² |

## Dimensions

| | |
|---|---|
| Width | 19.4 mm |
| Height | 79.9 mm |
| Depth on NS 35/7,5 | 50.3 mm |
| Depth on NS 35/15 | 57.8 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 | 9.8 kV |
| Result | Test passed |
| Short-time withstand current 10 mm² | 1.2 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 2.2 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 32/NS 35 |
| Test force setpoint | 5 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 (+/- 2) rpm |
| Revolutions | 135 |
| Conductor cross-section/weight | 2.5 mm² / 0.7 kg |
| | 10 mm² / 2 kg |
| | 35 mm² / 6.8 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):2022-06 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 (m/s²)²/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):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.) |
| 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/3002371

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

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| Spring-cage connection | 600 V | 36 A | 20 - 8 | - |
| Screw connection | 600 V | 86 A | 14 - 3 | - |
| C | | | | |
| Spring-cage connection | 600 V | 36 A | 20 - 8 | - |
| Screw connection | 600 V | 86 A | 14 - 3 | - |

**EAC**
Approval ID: KZ7500651131219505

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250119 |
| ECLASS-15.0 | 27250119 |

### 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 | 0.303 kg CO2e |


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