

Potential collective terminal - PTU 35/4X10



3002371

<https://www.phoenixcontact.com/de/produkte/3002371>

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Potential collective terminal, In the end application, the applicable safety regulations for overload and short-circuit protection on the connected conductors must be considered., nom. voltage: 1000 V, nominal current: 101 A, connection method: Screw connection, Rated cross section: 35 mm², cross section: 1.5 mm² - 50 mm², Push-in connection, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: 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
- 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 facility in the double function shaft, all terminal blocks provide an additional test connection

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 3002371 |
| Packing unit | 25 pc |
| Minimum order quantity | 1 pc |
| Sales Key | A1 - Reihenklemmen |
| Product Key | BE2219 |
| Catalog Page | Page 130 (C-1-2019) |
| GTIN | 4055626430881 |
| Weight per Piece (including packing) | 71,33 g |
| Weight per Piece (excluding packing) | 71,33 g |
| Customs tariff number | 85369010 |
| Country of origin | IN |

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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. |
|--------------------|---|

Product properties

| | |
|-----------------------|-----------------------|
| Product type | Potential distributor |
| 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 |
| Screw thread | M6 |
| Tightening torque | 3.2 ... 3.7 Nm |
| Stripping length | 18 mm ... 20 mm |
| Internal cylindrical gage | B9 |
| Conductor cross section solid | 1.5 mm ² ... 50 mm ² |
| Cross section AWG | 16 ... 0 |
| Conductor cross section flexible | 1.5 mm ² ... 35 mm ² |
| Conductor cross section, flexible [AWG] | 16 ... 2 |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 1.5 mm ² ... 35 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 1.5 mm ² ... 35 mm ² |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 1.5 mm ² ... 10 mm ² |
| 2 conductors with same cross section, solid | 1.5 mm ² ... 16 mm ² |
| 2 conductors with the same cross-section AWG rigid | 16 ... 6 |
| 2 conductors with same cross section, flexible | 1.5 mm ² ... 10 mm ² |
| 2 conductors with the same cross-section AWG flexible | 16 ... 8 |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 1.5 mm ² ... 10 mm ² |
| 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 |

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| | |
|---|--|
| Nominal cross section | 35 mm ² |
| Stripping length | 18 mm ... 20 mm |
| Conductor cross section solid | 0.5 mm ² ... 16 mm ² |
| Cross section AWG | 20 ... 6 |
| Conductor cross section flexible | 0.5 mm ² ... 10 mm ² |
| Conductor cross section, flexible [AWG] | 20 ... 8 |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.5 mm ² ... 10 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.5 mm ² ... 10 mm ² |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 1.5 mm ² ... 4 mm ² |
| Nominal current | 57 A |
| Maximum load current | 57 A |
| Nominal voltage | 1000 V |
| Nominal cross section | 10 mm ² |

Connection cross sections directly pluggable

| | |
|--------------------------------------|--|
| Conductor cross section solid | 1 mm ² ... 16 mm ² |
| Conductor cross section, solid [AWG] | 16 ... 6 |
| Conductor cross section flexible | 4 mm ² ... 10 mm ² |

Dimensions

| | |
|------------------|---------|
| Width | 19.4 mm |
| Height NS 35/15 | 57.8 mm |
| Height NS 35/7,5 | 50.3 mm |
| Length | 79.9 mm |

Material specifications

| | |
|---|-------------|
| Color | gray |
| 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 |

Electrical tests

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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 |
| | ≤ 1.6 mV |
| Short-time withstand current 10 mm ² | 1.2 kA |
| Short-time withstand current 16 mm ² | 1.92 kA |
| Short-time withstand current 35 mm ² | 4.2 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 35 |
| Test force setpoint | 5 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|--------------------------------|------------------------------|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross section/weight | 2.5 mm ² / 0.7 kg |
| | 10 mm ² / 2 kg |
| | 35 mm ² / 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 |
|------------------|------|

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

Oscillation/broadband noise

| | |
|------------------------|--|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Service life test category 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | 6.12 (m/s 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 | 30g |
| Shock duration | 18 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 ... 105 °C (max. short-term operating temperature 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 (storage/transport) | 30 % ... 70 % |

Standards and regulations

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

Mounting

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

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Drawings

Circuit diagram



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Approvals



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 |
|------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B | | | | |
| Spring-cage connection | 600 V | 36 A | 20 - 8 | - |
| Screw connection | 600 V | 86 A | 14 - 3 | - |
| Use group C | | | | |
| Spring-cage connection | 600 V | 36 A | 20 - 8 | - |
| Screw connection | 600 V | 86 A | 14 - 3 | - |

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-9.0 | 27141120 |
| ECLASS-10.0.1 | 27141120 |
| ECLASS-11.0 | 27141120 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC000897 |
|----------|----------|

UNSPSC

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

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Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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