# PTPOWER 185 - High-current terminal block

1054722

https://www.phoenixcontact.com/gb/products/1054722

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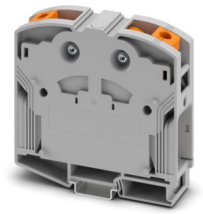


High-current terminal block, nom. voltage: 1000 V, nominal current: 309 A, number of connections: 2, number of positions: 1, connection method: PowerTurn connection, 1 level, cross section: 95 mm$^2$ - 185 mm$^2$, mounting type: NS 35/15, color: gray

## Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- 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 using the existing test pick-off, pick-off terminal blocks can be connected, each of which can also accommodate two test cables
- The compact design enables wiring in a confined space

## Commercial data

| | |
|---|---|
| Item number | 1054722 |
| Packing unit | 3 pc |
| Minimum order quantity | 3 pc |
| Sales key | BE2211 |
| Product key | BE2211 |
| GTIN | 4055626689661 |
| Weight per piece (including packing) | 366.667 g |
| Weight per piece (excluding packing) | 350.3 g |
| Customs tariff number | 85369010 |
| Country of origin | TR |

# Technical data

## Product properties

| | |
|---|---|
| Product type | High current terminal block |
| Number of positions | 1 |
| Number of connections | 2 |
| 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 | 9.55 W |

## Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 150 mm² |

1 level

| | |
|---|---|
| Connection method | PowerTurn connection |
| Stripping length | 40 mm |
| Internal cylindrical gage | B14 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 95 mm² ... 185 mm² |
| Cross section AWG | 250 kcmil ... 350 kcmil (converted acc. to IEC) |
| Conductor cross-section flexible | 95 mm² ... 185 mm² |
| Conductor cross-section, flexible [AWG] | 250 kcmil ... 350 kcmil (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 95 mm² ... 150 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 95 mm² ... 150 mm² |
| Cross-section with insertion bridge, rigid | 95 mm² ... 150 mm² |
| Cross-section with insertion bridge, flexible | 95 mm² ... 150 mm² |
| Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve | 95 mm² (120 mm²) |
| Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve | 95 mm² ... 120 mm² |
| Nominal current | 309 A |
| Maximum load current | 309 A (with 185 mm² conductor cross-section) |
| Nominal voltage | 1000 V |

1 level Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross-section rigid | 95 mm² ... 185 mm² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 95 mm² ... 150 mm² |

| | |
|---|---|
| Flexible conductor cross-section (ferrule with plastic sleeve) | 95 mm² ... 150 mm² |

## Dimensions

| | |
|---|---|
| Width | 31 mm |
| Height | 116.4 mm |
| Depth on NS 35/15 | 116.5 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 | 12.3 kV |
| Result | Test passed |

### Temperature-rise test

| | |
|---|---|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 150 mm² | 18 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 35/15 |
| Test force setpoint | 15 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|---|---|
| Conductor cross-section/weight | 95 mm²/14 kg |
| | 150 mm² / 15 kg |
| | 185 mm² /16.8 kg |
| Result | Test passed |

## Environmental and real-life conditions

Aging

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

Needle-flame test

| | |
|---|---|
| Time of exposure | 10 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 $f_2$ = 250 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 |
| 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

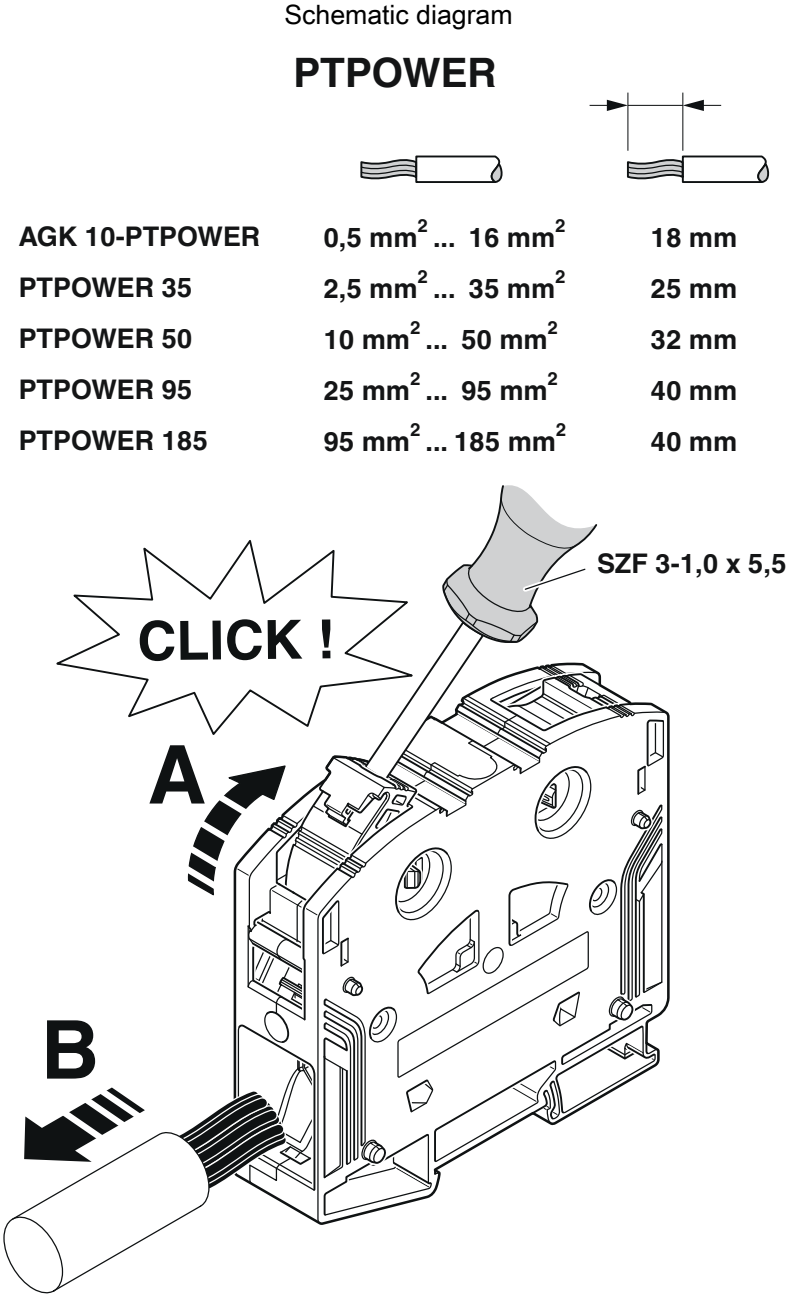
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |

## Mounting

| | |
|---|---|
| Mounting type | NS 35/15 |

## Drawings

Schematic diagram




| | | |
|---|---|---|
| **AGK 10-PTPOWER** | **0,5 mm² ... 16 mm²** | **18 mm** |
| **PTPOWER 35** | **2,5 mm² ... 35 mm²** | **25 mm** |
| **PTPOWER 50** | **10 mm² ... 50 mm²** | **32 mm** |
| **PTPOWER 95** | **25 mm² ... 95 mm²** | **40 mm** |
| **PTPOWER 185** | **95 mm² ... 185 mm²** | **40 mm** |

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1054722

**UL Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| F | | | | |
| | 1000 V | 290 A | 3/0 - 350 | - |
| E | | | | |
| | 1000 V | 290 A | 3/0 - 350 | - |

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

**DNV**
Approval ID: TAE00000Z9

**EAC**
Approval ID: KZ7500651131219505

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### 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 | 4.485 kg CO2e |

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