# PTPOWER 50 - High-current terminal block

3260050

https://www.phoenixcontact.com/us/products/3260050

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High-current terminal block, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 2, number of positions: 1, connection method: PowerTurn connection, 1 level, cross section: 10 mm$^2$ - 70 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 compact design enables 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 using the existing test pick-off, pick-off terminal blocks can be connected, each of which can also accommodate two test cables

## Commercial data

| | |
|---|---|
| Item number | 3260050 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | BE22 |
| Product key | BE2211 |
| GTIN | 4046356998000 |
| Weight per piece (including packing) | 158.6 g |
| Weight per piece (excluding packing) | 152 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 | 4.73 W |

## Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 50 mm² |
| Rated cross section AWG | 2/0 |

1 level

| | |
|---|---|
| Connection method | PowerTurn connection |
| Stripping length | 30 mm ... 32 mm |
| Internal cylindrical gage | A10 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 10 mm² ... 70 mm² |
| Cross section AWG | 6 ... 2/0 (converted acc. to IEC) |
| Conductor cross-section flexible | 10 mm² ... 70 mm² |
| Conductor cross-section, flexible [AWG] | 6 ... 2/0 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 10 mm² ... 50 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 10 mm² ... 50 mm² |
| Cross-section with insertion bridge, rigid | 10 mm² ... 50 mm² |
| Cross-section with insertion bridge, flexible | 10 mm² ... 50 mm² |
| Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve | 10 mm² (50 mm²) |
| Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve | 10 mm² ... 50 mm² |
| Nominal current | 150 A |
| Maximum load current | 150 A (with 70 mm² conductor cross-section) |
| Nominal voltage | 1000 V |

1 level Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross-section rigid | 10 mm² ... 70 mm² |

| | |
|---|---|
| Conductor cross-section, rigid [AWG] | 8 ... 2/0 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 10 mm² ... 50 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 10 mm² ... 50 mm² |

## Ex data

Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | Ⓔx II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C |
| Ex-certified accessories | 1206612 SZF 3-1,0X5,5 |
| | 1201662 E/AL-NS 35 |
| List of bridges | / EB 2-20/PT / 3260067 |
| | / EB 3-20/PT / 3260068 |
| Bridge data | 131 A (50 mm²) |
| Ex temperature increase | 40 K (147 A / 50 mm²) |
| at bridging with insertion bridge | 1100 V |
| Rated insulation voltage | 1000 V |
| output | (Permanent) |

Ex level General

| | |
|---|---|
| Rated voltage | 1100 V |
| Rated current | 134 A |
| Maximum load current | 134 A |
| Contact resistance | 0.16 mΩ |

Ex connection data General

| | |
|---|---|
| Ferrule length | 30 mm ... 32 mm |
| Stripping length | 30 mm |
| Nominal cross section | 50 mm² |
| Rated cross section AWG | 1/0 |
| Connection capacity rigid | 10 mm² ... 70 mm² |
| Connection capacity AWG | 8 ... 2/0 |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 16 mm² |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 50 mm² |

## Dimensions

| | |
|---|---|
| Width | 20 mm |
| Height | 101 mm |
| Depth on NS 35/15 | 105 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)) | 125 °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) | 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 50 mm² | 6 kA |
| Result | Test passed |

### Power-frequency withstand voltage

| | |
|---|---|
| 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 | 10 N |
| Result | Test passed |

### Test for conductor damage and slackening

| | |
|---|---|
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| | 10 mm² / 2 kg |

| | |
|---|---|
| Conductor cross-section/weight | 50 mm² / 9.5 kg |
| | 70 mm²/10.4 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):2008-03 |
| 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 | 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 ... 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

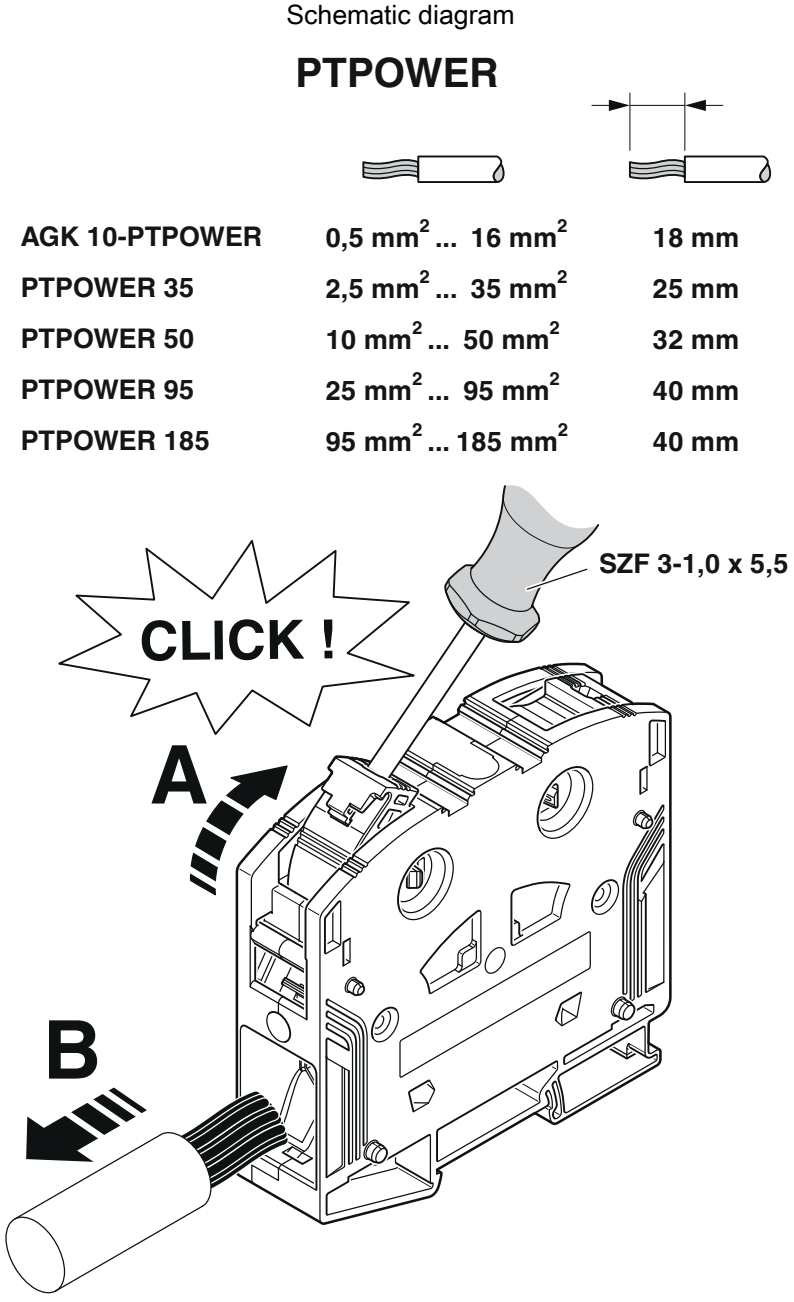
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |

## Mounting

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

## Drawings

Schematic diagram



Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3260050

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 600 V | 140 A | 8 - 1/0 | - |
| C | | | | |
| | 1000 V | 140 A | 8 - 1/0 | - |

**cUL Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| C | | | | |
| | 1000 V | 140 A | 8 - 1/0 | - |

**UL Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| E | | | | |
| | 1000 V | 140 A | 8 - 1/0 | - |

**DNV**
Approval ID: TAE00000Z9

**CCC**
Approval ID: 2020322313000630

**UKCA-EX**
Approval ID: CML 22UKEX1227U

**IECEx**
Approval ID: IECExSEV14.0013U

**ATEX**
Approval ID: SEV14ATEX0156U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |

| | | | | |
|---|---|---|---|---|
| Only rigid conductors | 1100 V | 134 A | - | 10 - 70 |
| multi-stranded with ferrule | 1100 V | 134 A | - | 16 - 50 |

**IECEx**
Approval ID: IECExSEV14.0013U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 1100 V | 134 A | - | - |
| Only rigid conductors | 1100 V | 134 A | - | - |
| multi-stranded with ferrule | 1100 V | 134 A | - | - |

**EAC Ex**
Approval ID: KZ 7500525010101950

## 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 | 1.983 kg CO2e |

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