# PTPOWER 35-3L-F - High-current terminal block

3212072

https://www.phoenixcontact.com/us/products/3212072

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125 A IEC

1000 V IEC



High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 6, number of positions: 3, connection method: PowerTurn connection, Rated cross section: 35 $mm^2$, cross section: 2.5 $mm^2$ - 35 $mm^2$, mounting type: direct screw connection, color: gray

## Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- 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

## Commercial data

| | |
|---|---|
| Item number | 3212072 |
| Packing unit | 3 pc |
| Minimum order quantity | 3 pc |
| Sales key | BE22 |
| Product key | BE2211 |
| GTIN | 4046356869782 |
| Weight per piece (including packing) | 290 g |
| Weight per piece (excluding packing) | 275.233 g |
| Customs tariff number | 85369010 |
| Country of origin | TR |

# Technical data

## Product properties

| | |
|---|---|
| Product type | High current terminal block |
| Number of positions | 3 |
| Pitch | 16 mm |
| Number of connections | 6 |
| Number of rows | 1 |
| Potentials | 3 |

### 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

| | |
|---|---|
| Number of connections per level | 6 |
| Nominal cross section | 35 mm² |
| Rated cross section AWG | 2 |
| Connection method | PowerTurn connection |
| Stripping length | 25 mm |
| Conductor cross-section rigid | 2.5 mm² ... 35 mm² |
| Cross section AWG | 12 ... 2 (converted acc. to IEC) |
| Conductor cross-section flexible | 2.5 mm² ... 35 mm² |
| Conductor cross-section, flexible [AWG] | 12 ... 2 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 2.5 mm² ... 35 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 2.5 mm² ... 35 mm² |
| Nominal cross section | 35 mm² |
| Nominal current | 125 A |
| Maximum load current | 125 A (with 35 mm² conductor cross-section) |
| Nominal voltage | 1000 V |

### Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross-section rigid | 2.5 mm² ... 35 mm² |
| Conductor cross-section, rigid [AWG] | 12 ... 2 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 2.5 mm² ... 35 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 2.5 mm² ... 35 mm² |

## Ex data

### Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | 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 | Plug-in bridge / FBS 2-16 / 3005963 |
| Bridge data | 89 A (25 mm²) |
| Ex temperature increase | 40 K (120 A/35 mm²) |
| for bridging with bridge | 690 V |
| Rated insulation voltage | 660 V |
| output | (Permanent) |

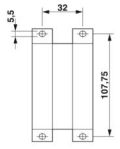
Ex level General

| | |
|---|---|
| Rated voltage | 690 V |
| Rated current | 109 A |
| Maximum load current | 109 A |
| Contact resistance | 0.16 mΩ |

Ex connection data General

| | |
|---|---|
| Ferrule length | 25 mm |
| Stripping length | 25 mm |
| Nominal cross section | 35 mm² |
| Rated cross section AWG | 2 |
| Connection capacity rigid | 2.5 mm² ... 35 mm² |
| Connection capacity AWG | 12 ... 2 |
| Conductor cross-section flexible, with ferrule without plastic sleeve min. | 6 mm² |
| Conductor cross-section flexible, with ferrule without plastic sleeve max. | 35 mm² |

## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 48 mm |
| Height | 120.2 mm |
| Depth | 68.3 mm |
| Drill hole spacing | 108 mm |
| Hole diameter | 5.5 mm |
| Pitch | 16 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 |

## Mechanical properties

### Mechanical data

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

### Technical data

| | |
|---|---|
| Drill hole spacing | 108 mm |

## Environmental and real-life conditions

### Ambient conditions

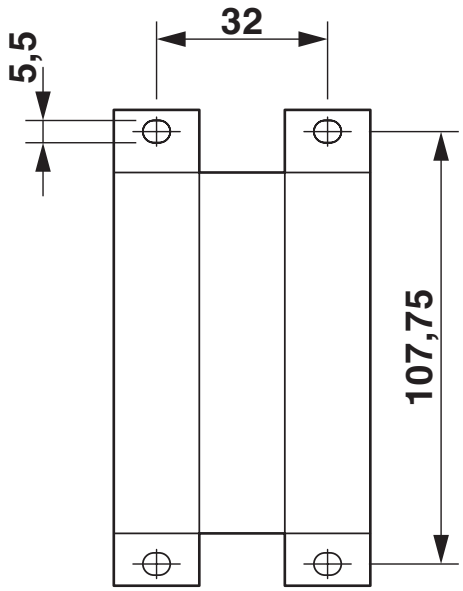
| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| 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 % |

## Mounting

| | |
|---|---|
| Mounting type | direct screw connection |

## Drawings

Dimensional drawing

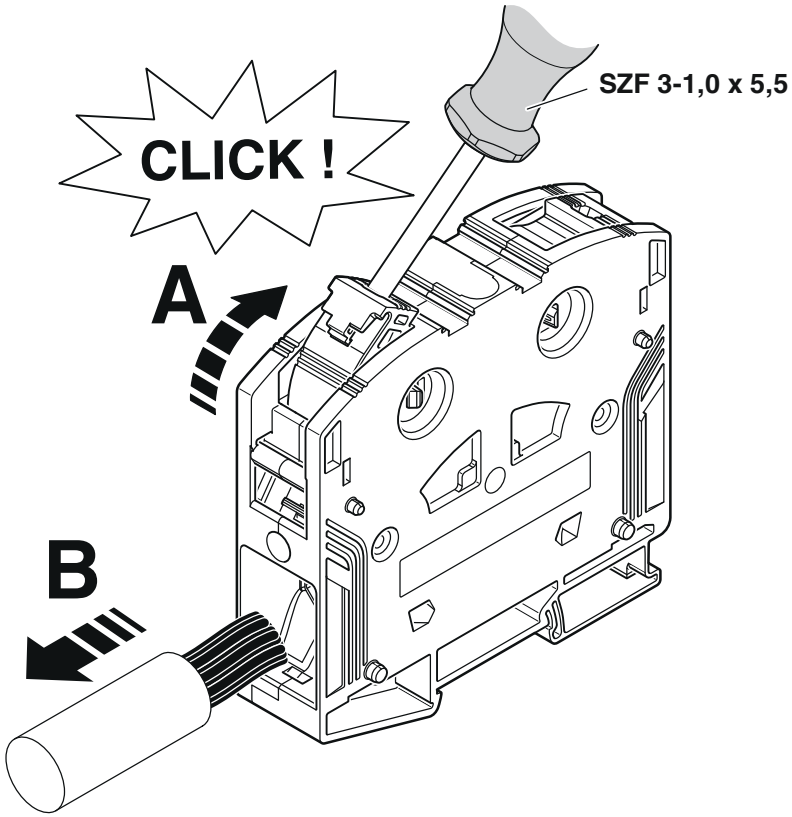


Schematic diagram

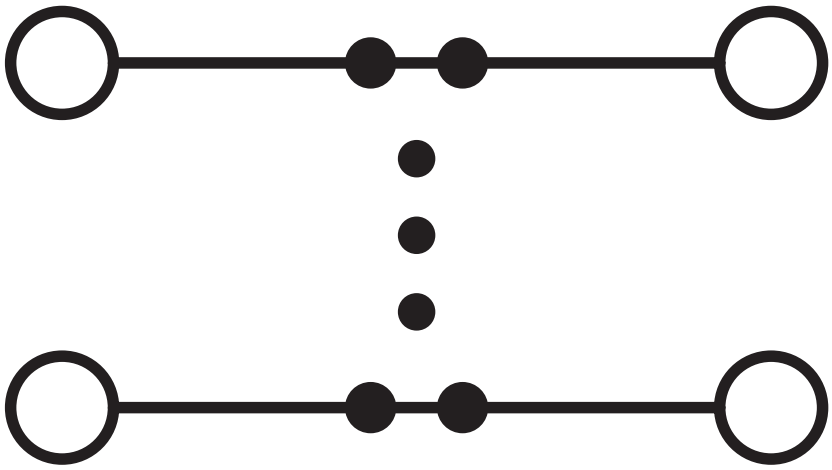
**PTPOWER**



| | | |
|---|---|---|
| **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/us/products/3212072

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 600 V | 115 A | 14 - 2 | - |
| C | | | | |
| | 1000 V | 115 A | 14 - 2 | - |

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

**DNV**
Approval ID: TAE00000Z9

**cUL Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| C | | | | |
| | 1000 V | 115 A | 14 - 2 | - |

**UL Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| E | | | | |
| | 1000 V | 115 A | 14 - 2 | - |

**EAC**
Approval ID: KZ7500651131219505

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

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

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

| | | | | |
|---|---|---|---|---|
| Only rigid conductors | 690 V | 109 A | - | 2.5 - 35 |
| multi-stranded with ferrule | 690 V | 109 A | - | 6 - 35 |

**ATEX**
Approval ID: SEV14ATEX0156U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Only rigid conductors | 690 V | 109 A | - | 2.5 - 35 |
| multi-stranded with ferrule | 690 V | 109 A | - | 6 - 35 |

## 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% |

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