# PTPOWER 35-3L/N - High-current terminal block

3212069

https://www.phoenixcontact.com/de/produkte/3212069

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 8, number of positions: 4, connection method: PowerTurn connection, Rated cross section: 35 $mm^2$, cross section: 2.5 $mm^2$ - 35 $mm^2$, mounting type: NS 35/15, color: gray/blue

## 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
- The compact design and front connection enable wiring in a confined space<br/>
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

# Technical data

## Product properties

| | |
|---|---|
| Product type | High current terminal block |
| Number of positions | 4 |
| Number of connections | 8 |
| Number of rows | 1 |
| Potentials | 4 |

### 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 | 8 |
| Nominal cross section | 35 mm² |
| Rated cross section AWG | 2 |
| 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 current | 125 A |
| Maximum load current | 125 A (with 35 mm² conductor cross section) |
| Nominal voltage | 1000 V |
| Nominal cross section | 35 mm² |

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

Ex level General

| | |
|---|---|
| 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

| | |
|---|---|
| Width | 64 mm |
| Height | 91.6 mm |
| Depth on NS 35/7,5 | 69.8 mm |
| Depth on NS 35/15 | 77.3 mm |

## Material specifications

| | |
|---|---|
| Color | gray/blue |
| 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 |

## Mechanical properties

Mechanical data

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

## 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, no longer than 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 | NS 35/15 |

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PHOENIX CONTACT Deutschland GmbH
Flachsmarktstraße 8
D-32825 Blomberg
+49 52 35/3-1 20 00
info@phoenixcontact.de