

# PTPOWER 50-3L/FE - High-current terminal block



3260055

<https://www.phoenixcontact.com/de/produkte/3260055>

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 8, number of positions: 4, connection method: PowerTurn connection, 1 level, cross section: 10 mm<sup>2</sup> - 70 mm<sup>2</sup>, mounting type: NS 35/15, color: gray/black-yellow

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## 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

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | High current terminal block |
| Number of positions   | 4                           |
| Number of connections | 8                           |
| 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 | 8                  |
| Nominal cross section           | 50 mm <sup>2</sup> |
| Rated cross section AWG         | 2/0                |

#### 1 level

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

#### 1 level Connection cross sections directly pluggable

|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| Conductor cross section rigid        | 10 mm <sup>2</sup> ... 70 mm <sup>2</sup> |
| Conductor cross section, rigid [AWG] | 8 ... 2/0 (converted acc. to IEC)         |

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|                                                                   |                                           |
|-------------------------------------------------------------------|-------------------------------------------|
| Conductor cross-section flexible (ferrule without plastic sleeve) | 10 mm <sup>2</sup> ... 50 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 10 mm <sup>2</sup> ... 50 mm <sup>2</sup> |

## Ex data

### Rated data (ATEX/IECEx)

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Identification                    | Ex 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 mm <sup>2</sup>         |
| Ex temperature increase           | 40 K (147 A / 50 mm <sup>2</sup> ) |
| Rated voltage                     | 1100 V                             |
| at bridging with insertion bridge | 1100 V                             |
| Rated insulation voltage          | 1000 V                             |
| output                            | (Permanent)                        |

### Ex level General

|                      |         |
|----------------------|---------|
| 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 mm <sup>2</sup>                        |
| Rated cross section AWG                                                    | 1/0                                       |
| Connection capacity rigid                                                  | 10 mm <sup>2</sup> ... 70 mm <sup>2</sup> |
| Connection capacity AWG                                                    | 8 ... 2/0                                 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 16 mm <sup>2</sup>                        |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 50 mm <sup>2</sup>                        |

## Dimensions

|                   |        |
|-------------------|--------|
| Width             | 80 mm  |
| Height            | 101 mm |
| Depth on NS 35/15 | 105 mm |

## Material specifications

|                                        |                   |
|----------------------------------------|-------------------|
| Color                                  | gray/black-yellow |
| Flammability rating according to UL 94 | V0                |
| Insulating material group              | I                 |
| Insulating material                    | PA                |

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

## 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 %                                                                                                                |

## Standards and regulations

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

## Mounting

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

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