

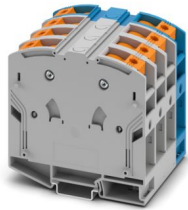
# PTPOWER 50-3L/N - High-current terminal block



3260054

<https://www.phoenixcontact.com/us/products/3260054>

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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/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
- 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                          | 3260054       |
| Packing unit                         | 3 pc          |
| Minimum order quantity               | 3 pc          |
| Sales key                            | BE22          |
| Product key                          | BE2211        |
| GTIN                                 | 4046356998697 |
| Weight per piece (including packing) | 614.667 g     |
| Weight per piece (excluding packing) | 595.47 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | TR            |

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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            | 4                           |

### 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

|  |   |
|--|---|
| 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 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> |
|-------------------------------|---|

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|   |   |
|---|---|
| Conductor cross-section, rigid [AWG]                              | 8 ... 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> |

## 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<br>1201662 E/AL-NS 35      |
| List of bridges                   | / EB 2-20/PT / 3260067<br>/ 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> )               |
| 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 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 | multicolored (RAL -)<br>gray (RAL 7042)<br>blue (RAL 5015) |
|-------|--|

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

## 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 %  |

## Standards and regulations

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

## Mounting

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

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## Drawings

Schematic diagram

### PTPOWER



|                |  |       |
|----------------|--|-------|
| AGK 10-PTPOWER | 0,5 mm <sup>2</sup> ... 16 mm <sup>2</sup> | 18 mm |
| PTPOWER 35     | 2,5 mm <sup>2</sup> ... 35 mm <sup>2</sup> | 25 mm |
| PTPOWER 50     | 10 mm <sup>2</sup> ... 50 mm <sup>2</sup>  | 32 mm |
| PTPOWER 95     | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup>  | 40 mm |
| PTPOWER 185    | 95 mm <sup>2</sup> ... 185 mm <sup>2</sup> | 40 mm |



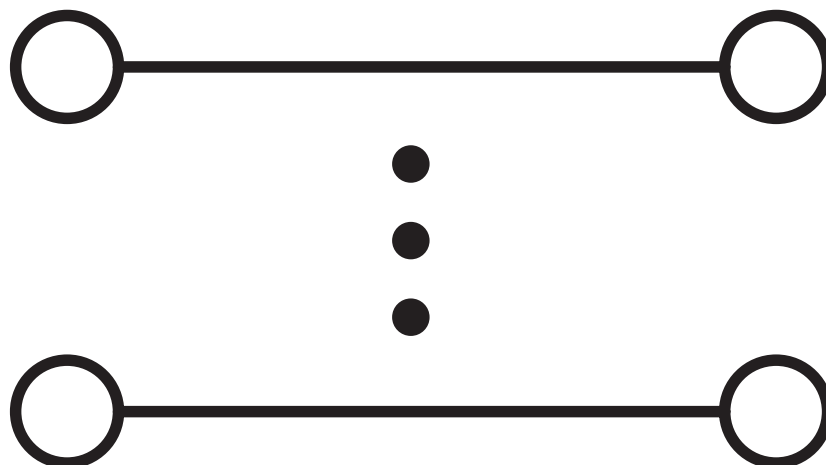
# PPOWER 50-3L/N - High-current terminal block



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Circuit diagram



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




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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3260054>


|  <b>cUL Recognized</b><br>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           | -                    |


|  <b>UL Recognized</b><br>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           | -                    |

| <b>DNV</b><br>Approval ID: TAE00000Z9 |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>CSA</b><br>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           | -                    |

|  <b>UKCA-EX</b><br>Approval ID: CML 22UKEX1227U |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|


|  <b>IECEX</b><br>Approval ID: IECEXSEV14.0013U |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | 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              |

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



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|  <b>ATEX</b><br>Approval ID: SEV14ATEX0156U |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
| Only rigid conductors  | 1100 V                | 134 A                 | -                 | 10 - 70                     |
| multi-stranded with ferrule  | 1100 V                | 134 A                 | -                 | 16 - 50                     |

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## 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 | 7.894 kg CO2e |
|---------|---------------|

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