

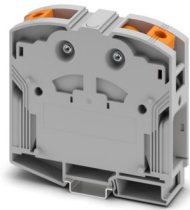
PTPOWER 185 - High-current terminal block



1054722

<https://www.phoenixcontact.com/us/products/1054722>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 309 A, number of connections: 2, number of positions: 1, connection method: PowerTurn connection, 1 level, cross section: 95 mm² - 185 mm², 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 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 | 1054722 |
| Packing unit | 3 pc |
| Minimum order quantity | 3 pc |
| Sales key | BE22 |
| Product key | BE2211 |
| GTIN | 4055626689661 |
| Weight per piece (including packing) | 366.667 g |
| Weight per piece (excluding packing) | 350.3 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 | 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 | 9.55 W |

Connection data

| | |
|---------------------------------|---------------------|
| Number of connections per level | 2 |
| Nominal cross section | 150 mm ² |

1 level

| | |
|--|--|
| Connection method | PowerTurn connection |
| Stripping length | 40 mm |
| Internal cylindrical gage | B14 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section rigid | 95 mm ² ... 185 mm ² |
| Cross section AWG | 250 kcmil ... 350 kcmil (converted acc. to IEC) |
| Conductor cross-section flexible | 95 mm ² ... 185 mm ² |
| Conductor cross-section, flexible [AWG] | 250 kcmil ... 350 kcmil (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 95 mm ² ... 150 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 95 mm ² ... 150 mm ² |
| Cross-section with insertion bridge, rigid | 95 mm ² ... 150 mm ² |
| Cross-section with insertion bridge, flexible | 95 mm ² ... 150 mm ² |
| Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve | 95 mm ² (120 mm ²) |
| Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve | 95 mm ² ... 120 mm ² |
| Nominal current | 309 A |
| Maximum load current | 309 A (with 185 mm ² conductor cross-section) |
| Nominal voltage | 1000 V |

1 level Connection cross sections directly pluggable

| | |
|---|--|
| Conductor cross-section rigid | 95 mm ² ... 185 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 95 mm ² ... 150 mm ² |

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| | |
|--|--|
| Flexible conductor cross-section (ferrule with plastic sleeve) | 95 mm ² ... 150 mm ² |
|--|--|

Dimensions

| | |
|-------------------|----------|
| Width | 31 mm |
| Height | 116.4 mm |
| Depth on NS 35/15 | 116.5 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 |
| 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 |

Electrical tests

Surge voltage test

| | |
|-----------------------|-------------|
| Test voltage setpoint | 12.3 kV |
| Result | Test passed |

Temperature-rise test

| | |
|--|--------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 150 mm ² | 18 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 kV |
| Result | Test passed |

Mechanical properties

Mechanical data

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

Mechanical tests

Mechanical strength

| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

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Attachment on the carrier

| | |
|-------------------------|-------------|
| DIN rail/fixing support | NS 35/15 |
| Test force setpoint | 15 N |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|--------------------------------|------------------------------|
| Conductor cross-section/weight | 95 mm ² /14 kg |
| | 150 mm ² / 15 kg |
| | 185 mm ² /16.8 kg |
| Result | Test passed |

Environmental and real-life conditions

Aging

| | |
|--------------------|-------------|
| Temperature cycles | 192 |
| Result | Test passed |

Needle-flame test

| | |
|------------------|-------------|
| Time of exposure | 10 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|------------------------|--|
| Specification | DIN EN 50155 (VDE 0115-200):2018-05 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | 0.964 (m/s ²)/Hz |
| Acceleration | 0.58g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2018-05 |
| Pulse shape | Half-sine |
| Acceleration | 5g |
| Shock duration | 30 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 |

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| | |
|--|---------------|
| 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 ² ... 16 mm ² | 18 mm |
| PTPOWER 35 | 2,5 mm ² ... 35 mm ² | 25 mm |
| PTPOWER 50 | 10 mm ² ... 50 mm ² | 32 mm |
| PTPOWER 95 | 25 mm ² ... 95 mm ² | 40 mm |
| PTPOWER 185 | 95 mm ² ... 185 mm ² | 40 mm |



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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1054722>

|  UL Recognized Approval ID: E60425 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| F | 1000 V | 290 A | 3/0 - 350 | - |
| E | 1000 V | 290 A | 3/0 - 350 | - |

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

| DNV Approval ID: TAE00000Z9 | | | | |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

|  EAC Approval ID: KZ7500651131219505 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

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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 | 4.485 kg CO2e |
|---------|---------------|

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