

PTPOWER 185 3L/N-F - High-current terminal block



1054736

<https://www.phoenixcontact.com/us/products/1054736>

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 309 A, number of connections: 8, number of positions: 4, connection method: PowerTurn connection, 1 level, cross section: 95 mm² - 185 mm², mounting type: direct screw connection, color: gray/blue

Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- 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
- 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 | 1054736 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BE22 |
| Product key | BE2211 |
| Catalog page | Page 141 (C-1-2019) |
| GTIN | 4055626690872 |
| Weight per piece (including packing) | 1,391 g |
| Weight per piece (excluding packing) | 1,391 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|-----------------------|-----------------------------|
| Product type | High current terminal block |
| Number of positions | 4 |
| Pitch | 31 mm |
| Number of connections | 8 |
| Number of rows | 1 |
| Potentials | 4 |

Data management status

| | |
|------------------|----|
| Article revision | 06 |
|------------------|----|

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 | 8 |
| Nominal cross section | 150 mm ² |

1 level

| | |
|--|--|
| 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 150 mm ² conductor cross section) |
| Nominal voltage | 1000 V |

1 level Connection cross sections directly pluggable

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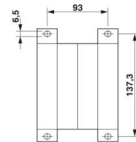


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| | |
|---|--|
| Conductor cross section rigid | 95 mm ² ... 185 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 95 mm ² ... 150 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 95 mm ² ... 150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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 124 mm |
| Height | 150 mm |
| Depth | 108.3 mm |
| Drill hole spacing | 137.2 mm |
| Hole diameter | 6.5 mm |
| Pitch | 31 mm |

Material specifications

| | |
|--|-----------------|
| Color | multicolored |
| | gray (RAL 7042) |
| | blue (RAL 5015) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |

Mechanical properties

| | |
|--------------------|----------|
| Mechanical data | |
| Open side panel | No |
| Technical data | |
| Drill hole spacing | 137.2 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, 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

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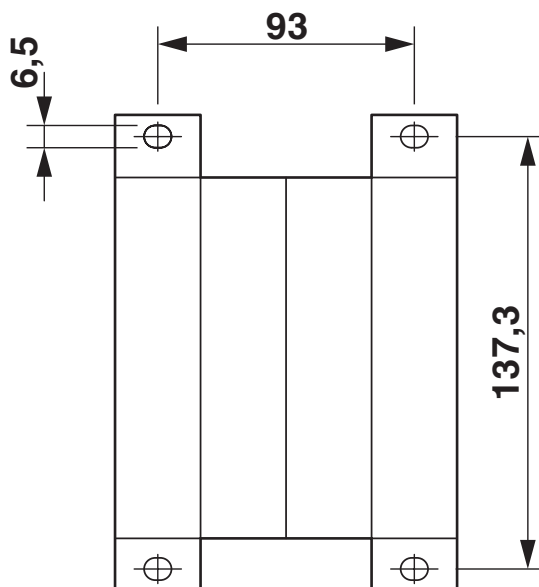
| | |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

Mounting

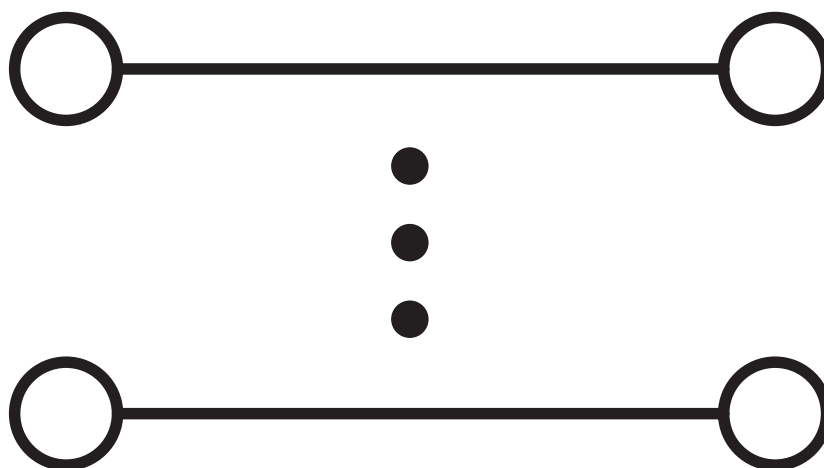
| | |
|---------------|-------------------------|
| Mounting type | direct screw connection |
| Thread type | () |

Drawings

Dimensional drawing



Circuit diagram



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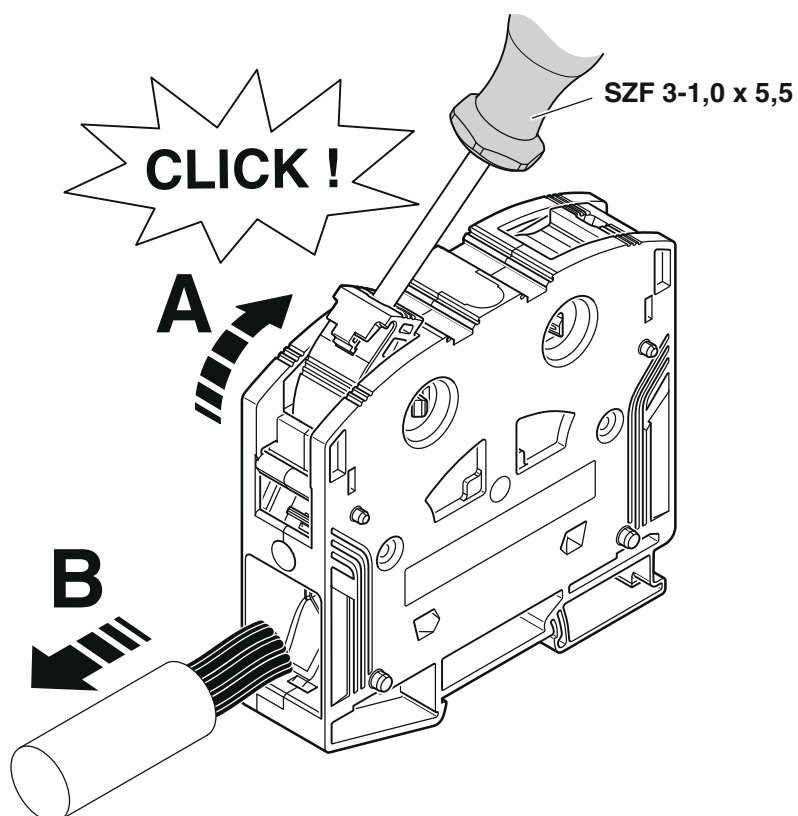
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Schematic diagram

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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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1054736>

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

| | |
|---|--|
| <div> EAC Approval ID: RU C-DE.BL08.B.00644</div> | |
|---|--|

| | |
|---|--|
| <div>DNV Approval ID: TAE00000Z9</div> | |
|---|--|

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250101 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | 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% |

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Accessories

i Note: Applying some accessories below might limit this product.

EB 2-31/PT - Insertion bridge

3215057

<https://www.phoenixcontact.com/us/products/3215057>

Insertion bridge, pitch: 31 mm, number of positions: 2, length: 78 mm, color: red



i Max. current carrying capacity: 232 A

EB 3-31/PT - Insertion bridge

3215058

<https://www.phoenixcontact.com/us/products/3215058>

Insertion bridge, pitch: 31 mm, number of positions: 3, length: 78 mm, color: red



i Max. current carrying capacity: 232 A

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AGK 10-PTPOWER - Pick-off terminal block

3260145

<https://www.phoenixcontact.com/us/products/3260145>



Pick-off terminal block, nom. voltage: 1500 V, nominal current: 57 A, number of connections: 2, connection method: Push-in connection, 1 level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: on base element, color: gray

AGK 10-PTPOWER BU - Pick-off terminal block

3260148

<https://www.phoenixcontact.com/us/products/3260148>



Pick-off terminal block, nom. voltage: 1500 V, nominal current: 57 A, number of connections: 2, connection method: Push-in connection, 1 level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: on base element, color: blue

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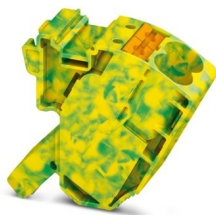
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AGK 10-PTPOWER GN/YE - Pick-off terminal block

3260151

<https://www.phoenixcontact.com/us/products/3260151>



Pick-off terminal block, nom. voltage: 1500 V, nominal current: 57 A, number of connections: 2, connection method: Push-in connection, 1 level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: on base element, color: green/yellow

AGK 10-PTPOWER BK/YE - Pick-off terminal block

3260154

<https://www.phoenixcontact.com/us/products/3260154>



Pick-off terminal block, nom. voltage: 1500 V, nominal current: 57 A, number of connections: 2, connection method: Push-in connection, 1 level, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², mounting type: on base element, color: black/yellow

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CEC PTPOWER 95/185 - Cover

1056087

<https://www.phoenixcontact.com/us/products/1056087>

Cover, yellow, labeled: Lightning flash, mounting type: plug in



NS 35/15 PERF 2000MM - DIN rail perforated

1201730

<https://www.phoenixcontact.com/us/products/1201730>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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NS 35/15 UNPERF 2000MM - DIN rail, unperforated

1201714

<https://www.phoenixcontact.com/us/products/1201714>



DIN rail, unperforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 35/15 WH PERF 2000MM - DIN rail perforated

0806602

<https://www.phoenixcontact.com/us/products/0806602>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white

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NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204135

<https://www.phoenixcontact.com/us/products/1204135>



DIN rail, unperforated, Pack of 10 (20 m), similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

NS 35/15 AL UNPERF 2000MM - DIN rail, unperforated

1201756

<https://www.phoenixcontact.com/us/products/1201756>



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

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NS 35/15 ZN PERF 2000MM - DIN rail perforated

1206599

<https://www.phoenixcontact.com/us/products/1206599>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver

NS 35/15 ZN UNPERF 2000MM - DIN rail, unperforated

1206586

<https://www.phoenixcontact.com/us/products/1206586>



DIN rail, unperforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver

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NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201895

<https://www.phoenixcontact.com/us/products/1201895>



DIN rail, unperforated, Pack of 10 (20 m), similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

NS 35/15 CAP - End cap

1206573

<https://www.phoenixcontact.com/us/products/1206573>



DIN rail end piece, for DIN rail NS 35/15

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ZB 10:UNBEDRUCKT - Zack marker strip

1053001

<https://www.phoenixcontact.com/us/products/1053001>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

ZB 10 CUS - Zack marker strip

0824941

<https://www.phoenixcontact.com/us/products/0824941>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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ZB10,LGS:FORTL.ZAHLEN - Zack marker strip

1053014

<https://www.phoenixcontact.com/us/products/1053014>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: latching, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

ZB10,QR:FORTL.ZAHLEN - Zack marker strip

1053027

<https://www.phoenixcontact.com/us/products/1053027>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: latching, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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ZB10,LGS:L1-N,PE - Marker for terminal blocks

1053412

<https://www.phoenixcontact.com/us/products/1053412>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: latching, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

ZB10,LGS:U-N - Marker for terminal blocks

1053438

<https://www.phoenixcontact.com/us/products/1053438>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: latching, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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UC-TM 10 - Marker for terminal blocks

0818069

<https://www.phoenixcontact.com/us/products/0818069>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

UC-TM 10 CUS - Marker for terminal blocks

0824605

<https://www.phoenixcontact.com/us/products/0824605>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

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UCT-TM 10 - Marker for terminal blocks

0829142

<https://www.phoenixcontact.com/us/products/0829142>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: latching, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

UCT-TM 10 CUS - Marker for terminal blocks

0829623

<https://www.phoenixcontact.com/us/products/0829623>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

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MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plug, with solder connection up to 1 mm² conductor cross section, number of positions: 1, color: gray

MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/us/products/0201663>

Insulating sleeve, color: white



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MPS-IH RD - Insulating sleeve

0201676

<https://www.phoenixcontact.com/us/products/0201676>

Insulating sleeve, color: red

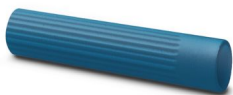


MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/us/products/0201689>

Insulating sleeve, color: blue



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MPS-IH YE - Insulating sleeve

0201692

<https://www.phoenixcontact.com/us/products/0201692>

Insulating sleeve, color: yellow



MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/us/products/0201702>

Insulating sleeve, color: green



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MPS-IH GY - Insulating sleeve

0201728

<https://www.phoenixcontact.com/us/products/0201728>

Insulating sleeve, color: gray



MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/us/products/0201731>

Insulating sleeve, color: black



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SZF 3-1,0X5,5 - Screwdriver

1206612

<https://www.phoenixcontact.com/us/products/1206612>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

SZS 0,8X4,0 VDE - Screwdriver

1212508

<https://www.phoenixcontact.com/us/products/1212508>



Screwdriver, slot-headed, VDE insulated, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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SZK PZ2 VDE - Screwdriver

1206463

<https://www.phoenixcontact.com/us/products/1206463>



Screwdriver, PZ crosshead, VDE insulated, size: PZ 2 x 100 mm, 2-component grip, with non-slip grip

SF-PH 2-100 S-VDE - Screwdriver

1212694

<https://www.phoenixcontact.com/us/products/1212694>



1000 V AC /
1500 V DC

Screwdriver, crosshead PH (lasered), insulated, size: PH 2 x 100, 2-component handle, with non-slip grip

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PROJECT COMPLETE - Software

1050453

<https://www.phoenixcontact.com/us/products/1050453>



Intuitive planning and marking software for configuring terminal strips and for professional marking of marking materials for terminal blocks, conductors, cables, devices, and systems. The software is available for download

A 95 -40 - Ferrule

3241242

<https://www.phoenixcontact.com/us/products/3241242>



Ferrule, sleeve length: 40 mm, color: silver

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A 120 -40 - Ferrule

1090640

<https://www.phoenixcontact.com/us/products/1090640>

Ferrule, color: silver



CRIMPFOX 50R - Crimping pliers

1212041

<https://www.phoenixcontact.com/us/products/1212041>



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 35 mm² ... 50 mm², lateral entry, WM crimp

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CRIMPFOX-M - Crimping pliers

1212072

<https://www.phoenixcontact.com/us/products/1212072>



Basic pliers, for accommodating dies for a wide range of type of contacts

CRIMPFOX-C120 - Crimping pliers

1212318

<https://www.phoenixcontact.com/us/products/1212318>



Basic pliers, for accommodating dies for a wide range of type of contacts up to 120 mm²

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