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

1054737

https://www.phoenixcontact.com/us/products/1054737

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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 mm^2 - 185 mm^2, mounting type: direct screw connection, color: gray/black-yellow

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 connection, pick-off terminal blocks can be connected, each of which can also accommodate two test cables
- 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 enables wiring in a confined space

Commercial data

Item number	1054737
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BE22
Product key	BE2211
Catalog page	Page 141 (C-1-2019)
GTIN	4055626690452
Weight per piece (including packing)	1,414.1 g
Weight per piece (excluding packing)	1,414 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

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 mm²

1 level

Stripping length	40 mm
Internal cylindrical gage	B14
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	95 mm² ... 185 mm²
Cross section AWG	3/0 ... 350 kcmil (converted acc. to IEC)
Conductor cross section flexible	95 mm² ... 185 mm²
Conductor cross section, flexible [AWG]	3/0 ... 350 kcmil (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	95 mm² ... 150 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	95 mm² ... 150 mm²
Cross-section with insertion bridge, rigid	95 mm² ... 150 mm²
Cross-section with insertion bridge, flexible	95 mm² ... 150 mm²
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	95 mm² ... 120 mm²
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	95 mm² ... 120 mm²
Nominal current	309 A
Maximum load current	309 A (with 150 mm² conductor cross section)
Nominal voltage	1000 V

1 level Connection cross sections directly pluggable

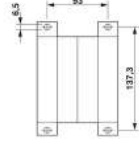|	
Conductor cross section rigid	95 mm² ... 185 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	95 mm² ... 150 mm²

Flexible conductor cross section (ferrule with plastic sleeve)	95 mm² ... 150 mm²

Dimensions

Dimensional drawing	

Width	124 mm
Height	150 mm
Depth	108.3 mm
Drill hole spacing	126.4 mm
Hole diameter	6.5 mm
Pitch	31 mm

Material specifications

Color	gray/black-yellow
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	126.4 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature 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 (storage/transport)	30 % ... 70 %

Standards and regulations

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

Mounting

Mounting type	direct screw connection

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Drawings

Dimensional drawing
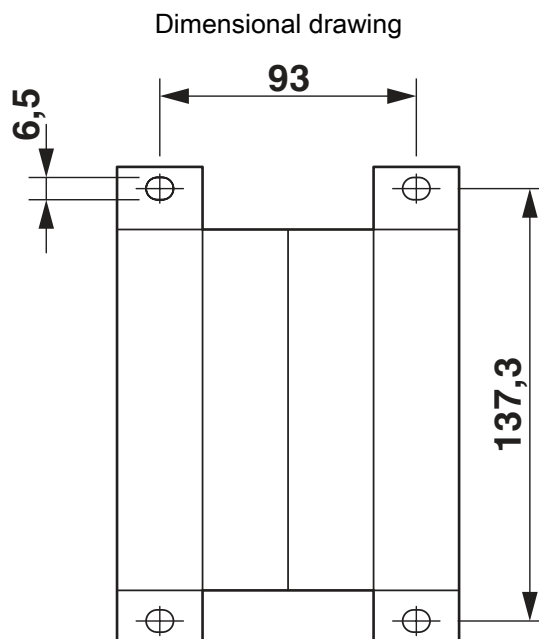
Schematic diagram

PTPOWER
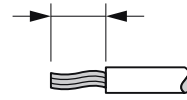
AGK 10-PTPOWER	$0,5\ mm^2 ... 16\ mm^2$	18 mm
PTPOWER 35	$2,5\ mm^2 ... 35\ mm^2$	25 mm
PTPOWER 50	$10\ mm^2 ... 50\ mm^2$	32 mm
PTPOWER 95	$25\ mm^2 ... 95\ mm^2$	40 mm
PTPOWER 185	$95\ mm^2 ... 185\ mm^2$	40 mm
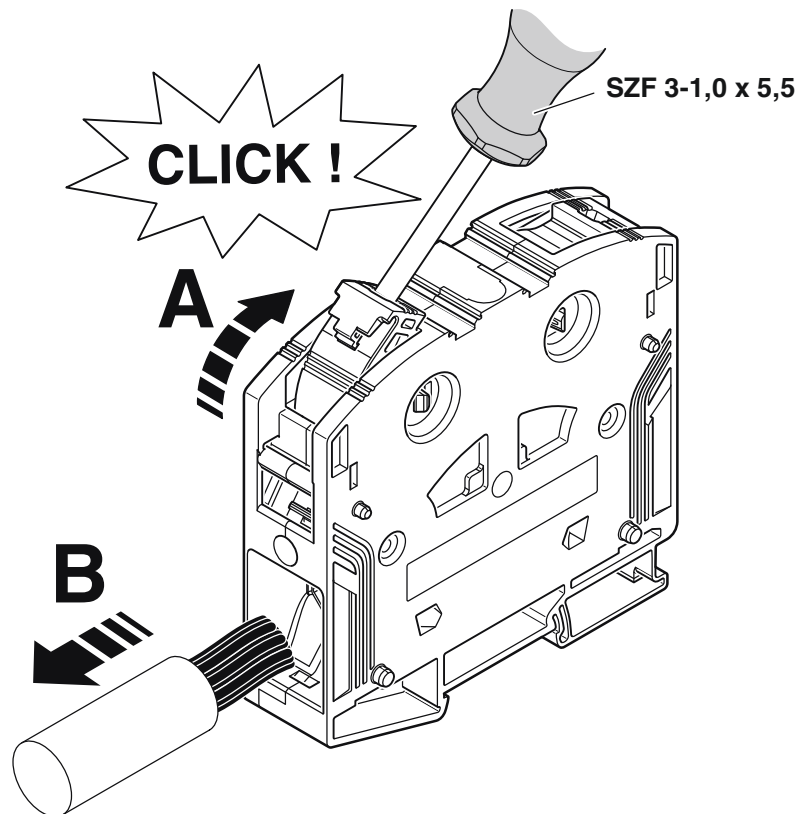
SZF 3-1,0 x 5,5

CLICK !

A

B

Circuit diagram
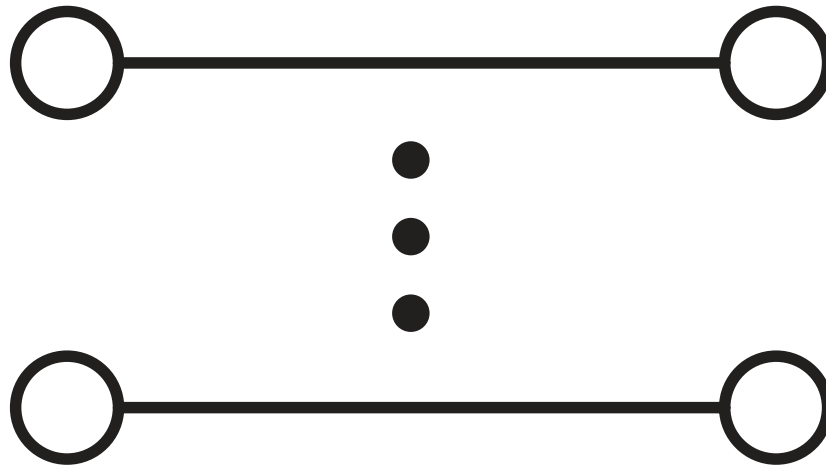
Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1054737

UL Recognized
Approval ID: E60425

	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	-

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

DNV
Approval ID: TAE00000Z9

Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 8.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Accessories

ⓘ   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

ⓘ 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

ⓘ Max. current carrying capacity: 232 A

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AGK 10-PTPOWER - Pick-off terminal

3260145

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

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

AGK 10-PTPOWER BU - Pick-off terminal

3260148

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

Pick-off terminal, nom. voltage: 1500 V, nominal current: 57 A, number of connections: 2, connection method: Push-in connection, 1 level, Rated cross section: 10 mm^2, cross section: 0.5 mm^2 - 16 mm^2, mounting type: on base element, color: blue
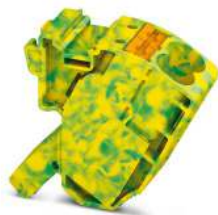
PTPOWER 185 3L/FE-F - High-current terminal block

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https://www.phoenixcontact.com/us/products/1054737

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

3260151

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

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

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

3260154

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

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

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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

CEC PTPOWER 95/185 - Cover

1056087

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

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

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PTPOWER-IL - Mounting material

1180891

https://www.phoenixcontact.com/us/products/1180891

Operating decal for the PTPOWER

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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https://www.phoenixcontact.com/us/products/1054737

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

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

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NS 35/15 PERF 2000MM - DIN rail perforated

1201730

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

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

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

1201714

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

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

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1054737

https://www.phoenixcontact.com/us/products/1054737

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

0806602

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

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

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

1204135

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

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

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

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https://www.phoenixcontact.com/us/products/1054737

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

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

1206599

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

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

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https://www.phoenixcontact.com/us/products/1054737

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

1206586

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

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

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

1201895

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

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

NS 35/15 CAP - End cap

1206573

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

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

E/AL-NS 35 - End clamp

1201662

https://www.phoenixcontact.com/us/products/1201662

End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

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: snapped, 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

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: snapped, 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: snapped, 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: snapped, 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: snapped, 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: snapped, 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: snapped, 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 plugs

0201744

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

Test plugs, with solder connection up to 1 mm^2 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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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, length: 40 mm, color: silver

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A 120 -40 - Ferrule

1090640

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

Ferrule, length: 40 mm, 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 mm^2 ... 50 mm^2, 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 mm^2

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