

# PTPOWER 150 F BU - High-current terminal block



3215031

<https://www.phoenixcontact.com/us/products/3215031>

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High-current terminal block, nom. voltage: 1500 V, nominal current: 309 A, number of connections: 2, number of positions: 1, connection method: PowerTurn connection, 1 level, cross section: 50 mm<sup>2</sup> - 150 mm<sup>2</sup>, mounting type: direct screw connection, color: blue

## Commercial data

Item number	3215031
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BE22
Product key	BE2211
Catalog page	Page 131 (C-1-2017)
GTIN	4046356903493
Weight per piece (including packing)	355.2 g
Weight per piece (excluding packing)	355.2 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	1
Pitch	31 mm
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
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### Connection data

Number of connections per level	2
Nominal cross section	150 mm <sup>2</sup>

#### 1 level

Stripping length	40 mm
Internal cylindrical gage	B14
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	50 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Cross section AWG	1/0 ... 300 kcmil (converted acc. to IEC)
Conductor cross section flexible	50 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	1/0 ... 300 kcmil (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	50 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	50 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Cross-section with insertion bridge, rigid	50 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Cross-section with insertion bridge, flexible	50 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	50 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	50 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Nominal current	309 A
Maximum load current	309 A (with 150 mm <sup>2</sup> conductor cross section)
Nominal voltage	1500 V DC 1000 V AC

#### 1 level Connection cross sections directly pluggable

Conductor cross section rigid	50 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	50 mm <sup>2</sup> ... 95 mm <sup>2</sup>

# PTPOWER 150 F BU - High-current terminal block

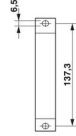


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Flexible conductor cross section (ferrule with plastic sleeve)	50 mm <sup>2</sup> ... 95 mm <sup>2</sup>
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## Dimensions

Dimensional drawing	
Width	31 mm
Height	108.3 mm
Drill hole spacing	137.2 mm
Hole diameter	6.5 mm
Pitch	31 mm

## Material specifications

Color	blue
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
Technical data	
Drill hole spacing	137.2 mm

## Standards and regulations

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

Mounting type	direct screw connection
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# PPOWER 150 F BU - High-current terminal block



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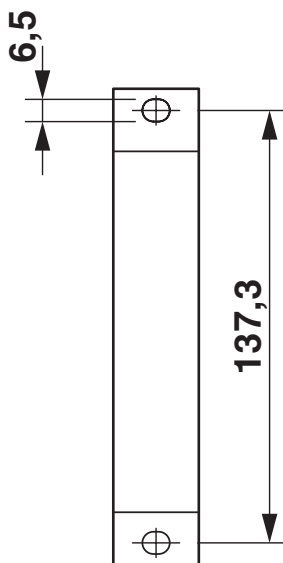
<https://www.phoenixcontact.com/us/products/3215031>

## Drawings

Circuit diagram



Dimensional drawing



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## Environmental product compliance

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

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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

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### 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

# PTPOWER 150 F BU - High-current terminal block



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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 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: on base element, color: gray

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## 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 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: on base element, color: blue

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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 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: on base element, color: green/yellow

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## 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 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, 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

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## 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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<https://www.phoenixcontact.com/us/products/3215031>

## 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

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## 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

# PTPOWER 150 F BU - High-current terminal block



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<https://www.phoenixcontact.com/us/products/3215031>

## 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

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## 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

# PTPOWER 150 F BU - High-current terminal block



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<https://www.phoenixcontact.com/us/products/3215031>

## 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

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## 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

# PTPOWER 150 F BU - High-current terminal block



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<https://www.phoenixcontact.com/us/products/3215031>

## 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

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## 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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<https://www.phoenixcontact.com/us/products/3215031>

## E/AL-NS 35 - End bracket

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

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## TMT (EX9,5)R - Marker for terminal blocks

0828295

<https://www.phoenixcontact.com/us/products/0828295>



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: snapped, snap into tall marker groove, for terminal block width: 30000 mm, lettering field size: 9.5 x 50000 mm, Number of individual labels: 1

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<https://www.phoenixcontact.com/us/products/3215031>

## US-TM 100 - Marker for terminal blocks

0829255

<https://www.phoenixcontact.com/us/products/0829255>



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, lettering field size: 104 x 9.8 mm, Number of individual labels: 13

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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: snapped, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

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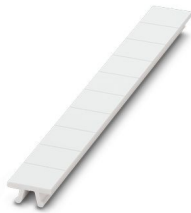
3215031

<https://www.phoenixcontact.com/us/products/3215031>

## 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: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10



# PTPOWER 150 F BU - High-current terminal block



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## ZB10,QR:FORTL.ZAHLEN - Zack marker strip

1053027

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



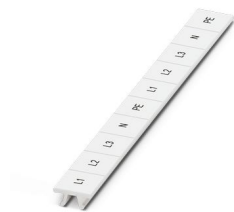
Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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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

# PTPOWER 150 F BU - High-current terminal block



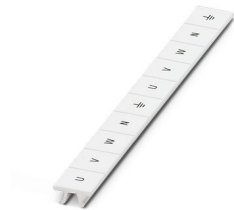
3215031

<https://www.phoenixcontact.com/us/products/3215031>

## 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

# PTPOWER 150 F BU - High-current terminal block



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## 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

# PTPOWER 150 F BU - High-current terminal block



3215031

<https://www.phoenixcontact.com/us/products/3215031>

## 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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## ZB 20,3:UNPRINTED - Zack marker strip

0820248

<https://www.phoenixcontact.com/us/products/0820248>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 20.3 mm, lettering field size: 10.5 x 20.25 mm, Number of individual labels: 5

# PTPOWER 150 F BU - High-current terminal block



3215031

<https://www.phoenixcontact.com/us/products/3215031>

## ZB 20,3 CUS - Zack marker strip

0824948

<https://www.phoenixcontact.com/us/products/0824948>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 20.3 mm, lettering field size: 10.5 x 20.25 mm, Number of individual labels: 5

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## MPS-MT - Test plug

0201744

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



Test plug, with solder connection up to 1 mm<sup>2</sup> conductor cross section, number of positions: 1, color: gray

# PTPOWER 150 F BU - High-current terminal block



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<https://www.phoenixcontact.com/us/products/3215031>

## 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



# PTPOWER 150 F BU - High-current terminal block



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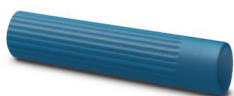
<https://www.phoenixcontact.com/us/products/3215031>

## 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



# PTPOWER 150 F BU - High-current terminal block



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<https://www.phoenixcontact.com/us/products/3215031>

## 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





# PTPOWER 150 F BU - High-current terminal block



3215031

<https://www.phoenixcontact.com/us/products/3215031>

## 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

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<https://www.phoenixcontact.com/us/products/3215031>

## A 25 -40 - Ferrule

3241238

<https://www.phoenixcontact.com/us/products/3241238>



Ferrule, color: silver

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## A 35 -40 - Ferrule

3241239

<https://www.phoenixcontact.com/us/products/3241239>



Ferrule, color: silver

# PTPOWER 150 F BU - High-current terminal block



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## A 50 -40 - Ferrule

3241240

<https://www.phoenixcontact.com/us/products/3241240>

Ferrule, color: silver



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## A 70 -40 - Ferrule

3241241

<https://www.phoenixcontact.com/us/products/3241241>

Ferrule, color: silver



# PTPOWER 150 F BU - High-current terminal block



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<https://www.phoenixcontact.com/us/products/3215031>

## A 95 -40 - Ferrule

3241242

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



Ferrule, color: silver

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## 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<sup>2</sup> ... 50 mm<sup>2</sup>, lateral entry, WM crimp

# PTPOWER 150 F BU - High-current terminal block



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<https://www.phoenixcontact.com/us/products/3215031>

## 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

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## 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<sup>2</sup>

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