

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                           |
| Minimum order quantity               | 3 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                             |

# PTPOWER 150 F BU - High-current terminal block



3215031

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

## 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 |
|---------------------|------|

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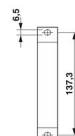
<https://www.phoenixcontact.com/us/products/3215031>

Flexible conductor cross section (ferrule with plastic sleeve)

50 mm<sup>2</sup> ... 95 mm<sup>2</sup>

## 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

## Mounting

Mounting type

direct screw connection

# PTPOWER 150 F BU - High-current terminal block

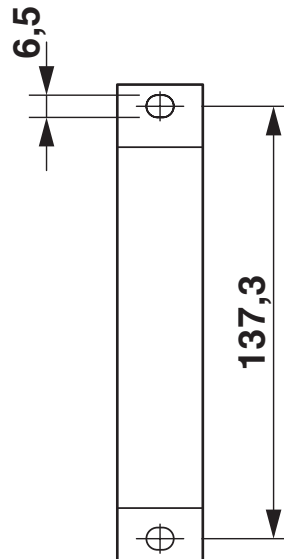


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## Drawings

Dimensional drawing



Circuit diagram



# PTPOWER 150 F BU - High-current terminal block



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## Classifications

ETIM

|          |          |
|----------|----------|
| ETIM 7.0 | EC000897 |
|----------|----------|

# PTPOWER 150 F BU - High-current terminal block



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## Environmental product compliance

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

# PTPOWER 150 F BU - High-current terminal block



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

## 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

# PTPOWER 150 F BU - High-current terminal block



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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<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

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



# PTPOWER 150 F BU - High-current terminal block



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## 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<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

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

# PTPOWER 150 F BU - High-current terminal block



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

# PTPOWER 150 F BU - High-current terminal block



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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, 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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## 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)

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

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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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## 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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## 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)

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

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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



# PTPOWER 150 F BU - High-current terminal block



3215031

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

## 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

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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

# PTPOWER 150 F BU - High-current terminal block



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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



# PTPOWER 150 F BU - High-current terminal block



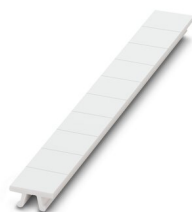
3215031

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

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

1053027

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



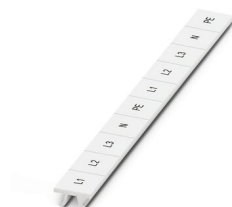
Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 10.2 mm, lettering field size: 10,15 x 10,5 mm, Number of individual labels: 10

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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



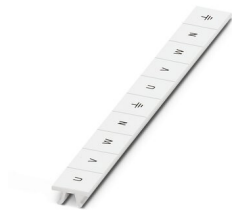
3215031

<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



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## 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



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<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 plugs

0201744

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



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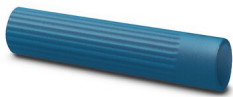
<https://www.phoenixcontact.com/us/products/3215031>

## 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



## 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

# PTPOWER 150 F BU - High-current terminal block



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

## A 25 -40 - Ferrule

3241238

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



Ferrule, length: 40 mm, color: silver

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## A 35 -40 - Ferrule

3241239

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



Ferrule, length: 40 mm, 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, length: 40 mm, color: silver

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## A 70 -40 - Ferrule

3241241

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



Ferrule, length: 40 mm, 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, length: 40 mm, 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



3215031

<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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