

# PTPOWER 150 F BU - High-current terminal block



3215031

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

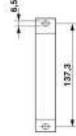


3215031

<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
---------------	-------------------------

# PPOWER 150 F BU - High-current terminal block

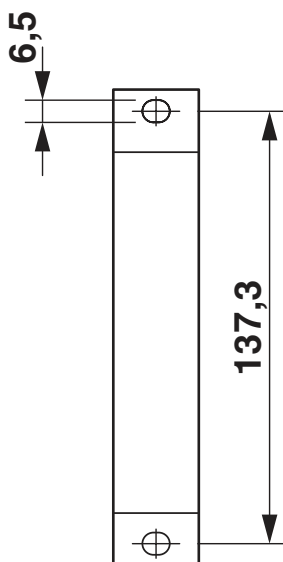


3215031

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

## Drawings

Dimensional drawing



Circuit diagram



# PPOWER 150 F BU - High-current terminal block



3215031

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

## Classifications

### ETIM

ETIM 7.0

EC000897

# PTPOWER 150 F BU - High-current terminal block



3215031

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

## 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



3215031

<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



3215031

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

## 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

---

## 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



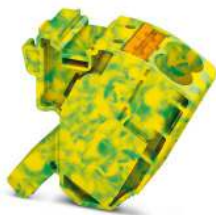
3215031

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

## 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

---

## 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



3215031

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

## 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

---

## 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



3215031

<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)

---

## 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



3215031

<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)

---

## 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



3215031

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

---

## 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



3215031

<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)

---

## 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

---

## 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



3215031

<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

---

## 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

---

## 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



3215031

<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

---

## 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

---

## 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



3215031

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

## 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

---

## 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

---

## 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

---

## 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



3215031

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

## MPS-IH WH - Insulating sleeve

0201663

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

Insulating sleeve, color: white



---

## 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



3215031

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

## MPS-IH BU - Insulating sleeve

0201689

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

Insulating sleeve, color: blue



---

## 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



3215031

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

## MPS-IH GN - Insulating sleeve

0201702

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

Insulating sleeve, color: green



---

## 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



3215031

<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

---

## 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



3215031

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

## A 50 -40 - Ferrule

3241240

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



Ferrule, length: 40 mm, color: silver

---

## 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



3215031

<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

---

## 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

---

## 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>

---

Phoenix Contact 2023 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)