High-current terminal block - PTPOWER 150 F

3215030

https://www.phoenixcontact.com/us/products/3215030

PHŒNIX CONTACT

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High-current terminal block, nom. voltage: 1500 V, nominal current: 309 A, connection method: PowerTurn connection, 1 level, cross section: 50 mm^2 - 150 mm^2, mounting type: direct screw connection, color: gray

Commercial Data

Item number	3215030
Packing unit	1 pc
Minimum order quantity	3 pc
Note	Made to Order (non-returnable)
Sales Key	B02
Product Key	BE2211
Catalog Page	Page 131 (C-1-2017)
GTIN	4046356903486
Weight per Piece (including packing)	359.3 g
Weight per Piece (excluding packing)	359.3 g
Customs tariff number	85369010
Country of origin	PL

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 mm²

1 level

Stripping length	40 mm
Internal cylindrical gage	B14
Conductor cross section solid	50 mm² ... 150 mm²
Cross section AWG	1/0 ... 300 kcmil (converted acc. to IEC)
Conductor cross section flexible	50 mm² ... 150 mm²
Conductor cross section, flexible [AWG]	1/0 ... 300 kcmil (converted acc. to IEC)
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	50 mm² ... 95 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	50 mm² ... 95 mm²
Cross-section with insertion bridge, rigid	50 mm² ... 150 mm²
Cross-section with insertion bridge, flexible	50 mm² ... 150 mm²
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	50 mm² ... 95 mm²
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	50 mm² ... 95 mm²
Nominal current	309 A
Maximum load current	309 A (with 150 mm² conductor cross section)
Nominal voltage	1500 V DC
	1000 V AC

1 level Connection cross sections directly pluggable

Conductor cross section solid	50 mm² ... 150 mm²
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	50 mm² ... 95 mm²
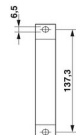
Flexible conductor cross section (ferrule with plastic sleeve)	50 mm² ... 95 mm²

Dimensions

Dimensional drawing	
Width	31 mm
Height	108.3 mm
Length	150 mm
Drill hole spacing	137.2 mm
Hole diameter	6.5 mm
Pitch	31 mm

Material specifications

Color	gray
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

Electrical tests

Surge voltage test

Test voltage setpoint	14.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 150 mm²	18 kA
Result	Test passed

Power-frequency withstand voltage

Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No

Technical data

Drill hole spacing	137.2 mm

Mechanical tests

Mechanical strength

Result	Test passed

Attachment on the carrier

Test force setpoint	15 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	50 mm² / 9.5 kg
	150 mm² / 15 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 1, class B, body mounted
Frequency	f_1 = 5 Hz to f_2 = 150 Hz
ASD level	0.964 (m/s²)²/Hz
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine

Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Standards and regulations

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

Mounting

Mounting type	direct screw connection

Drawings

Circuit diagram

Dimensional drawing

6,5

137,3
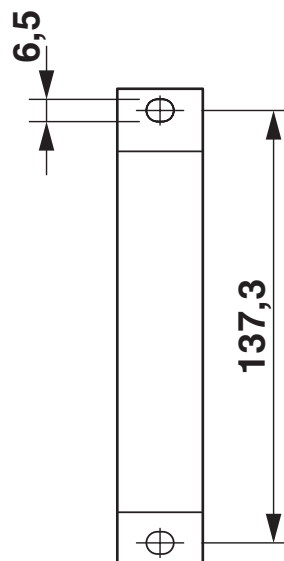
Classifications

ETIM

ETIM 7.0	EC000897

Environmental Product Compliance

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

Accessories

> ℹ️ Note: Applying some accessories below might limit this product.

Insertion bridge

Insertion bridge - EB 2-31/PT - 3215057

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

Insertion bridge, pitch: 31 mm, color: red

ℹ️ Max. current carrying capacity: 232 A

Insertion bridge

Insertion bridge - EB 3-31/PT - 3215058

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

Insertion bridge, pitch: 31 mm, color: red

ℹ️ Max. current carrying capacity: 232 A

Pick-off terminal block

Pick-off terminal block - AGK 10-PTPOWER - 3260145

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

Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 PowerTurn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, 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

Pick-off terminal block

Pick-off terminal block - AGK 10-PTPOWER BU - 3260148

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

Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 PowerTurn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, 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

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Pick-off terminal block

Pick-off terminal block - AGK 10-PTPOWER GN/YE - 3260151
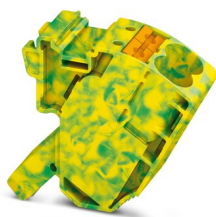
https://www.phoenixcontact.com/us/products/3260151

Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 PowerTurn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, 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

Pick-off terminal block

Pick-off terminal block - AGK 10-PTPOWER BK/YE - 3260154

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

Pick-off terminal block, For use with PTPOWER 50, 95, 150, and 185 PowerTurn high-current terminal blocks, nom. voltage: 1500 V, nominal current: 57 A, 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

Screwdriver

Screwdriver - SZF 3-1,0X5,5 - 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

DIN rail perforated

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

DIN rail, unperforated

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

DIN rail perforated

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

DIN rail, unperforated

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

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756

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

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

DIN rail perforated

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

DIN rail, unperforated

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

DIN rail, unperforated

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

End cap

End cap - NS 35/15 CAP - 1206573

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

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

End clamp

End clamp - E/AL-NS 35 - 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

Marker for terminal blocks

Marker for terminal blocks - TMT (EX9,5)R - 0828295

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

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

Marker for terminal blocks

Marker for terminal blocks - US-TM 100 - 0829255

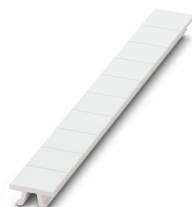https://www.phoenixcontact.com/us/products/0829255

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

Zack marker strip

Zack marker strip - ZB 10:UNBEDRUCKT - 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 mm x 10.15 mm, Number of individual labels: 10

Zack marker strip

Zack marker strip - ZB 10 CUS - 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

Zack marker strip

Zack marker strip - ZB10,LGS:FORTL.ZAHLEN - 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
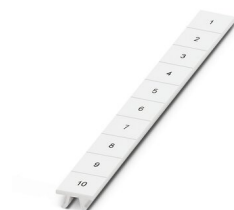
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Zack marker strip

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

Marker for terminal blocks

Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412
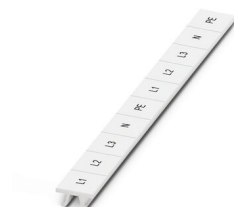
https://www.phoenixcontact.com/us/products/1053412

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

High-current terminal block - PTPOWER 150 F

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https://www.phoenixcontact.com/us/products/3215030

Marker for terminal blocks

Marker for terminal blocks - ZB10,LGS:U-N - 1053438

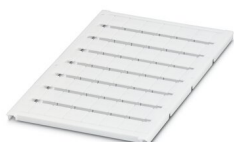https://www.phoenixcontact.com/us/products/1053438

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

Marker for terminal blocks

Marker for terminal blocks - UC-TM 10 - 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

High-current terminal block - PTPOWER 150 F

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https://www.phoenixcontact.com/us/products/3215030

Marker for terminal blocks

Marker for terminal blocks - UC-TM 10 CUS - 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

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 10 - 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

High-current terminal block - PTPOWER 150 F

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https://www.phoenixcontact.com/us/products/3215030

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 10 CUS - 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

Zack marker strip

Zack marker strip - ZB 20,3:UNPRINTED - 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

Zack marker strip

Zack marker strip - ZB 20,3 CUS - 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

Test plugs

Test plugs - MPS-MT - 0201744

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

Test plugs, with solder connection up to 1 mm^2 conductor cross section, color: gray

High-current terminal block - PTPOWER 150 F

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663
https://www.phoenixcontact.com/us/products/0201663

Insulating sleeve, color: white

Insulating sleeve

Insulating sleeve - MPS-IH RD - 0201676
https://www.phoenixcontact.com/us/products/0201676

Insulating sleeve, color: red

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https://www.phoenixcontact.com/us/products/3215030

Insulating sleeve

Insulating sleeve - MPS-IH BU - 0201689

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

Insulating sleeve, color: blue
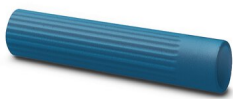
Insulating sleeve

Insulating sleeve - MPS-IH YE - 0201692

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

Insulating sleeve, color: yellow

High-current terminal block - PTPOWER 150 F

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https://www.phoenixcontact.com/us/products/3215030

Insulating sleeve

Insulating sleeve - MPS-IH GN - 0201702

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

Insulating sleeve, color: green

Insulating sleeve

Insulating sleeve - MPS-IH GY - 0201728

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

Insulating sleeve, color: gray

Insulating sleeve

Insulating sleeve - MPS-IH BK - 0201731

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

Insulating sleeve, color: black

Software

Software - PROJECT COMPLETE - 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

Ferrule

Ferrule - A 25   -40 - 3241238

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

Ferrule, length: 40 mm, color: silver

Ferrule

Ferrule - A 35   -40 - 3241239

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

Ferrule, length: 40 mm, color: silver

Ferrule

Ferrule - A 50   -40 - 3241240

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

Ferrule, length: 40 mm, color: silver

Ferrule

Ferrule - A 70   -40 - 3241241

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

Ferrule, length: 40 mm, color: silver

Ferrule

Ferrule - A 95   -40 - 3241242

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

Ferrule, length: 40 mm, color: silver

Crimping pliers

Crimping pliers - CRIMPFOX 50R - 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

Crimping pliers

Crimping pliers - CRIMPFOX-M - 1212072

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

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

Crimping pliers

Crimping pliers - CRIMPFOX-C120 - 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

https://www.phoenixcontact.com

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