PHŒNIX CONTACT

High-current terminal block - PTPOWER 150 P-F - 3215040

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High-current terminal block, Connection method: Power-Turn connection, Number of positions: 1, Cross section: 50 mm² - 150 mm², AWG: 1/0 - 300 kcmil, Width: 31 mm, Height: 108.3 mm, Color: gray, Mounting type: ct screw connection

Why buy this product

☑ Quick and easy connection is now also possible for large conductors with the high-current terminal block

☑ 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

☑ In addition to using the existing test connection, pick-off terminal blocks can be connected, each of which can also accommodate two test cables

RoHS

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	3 STK
Weight per Piece (excluding packing)	366.670 g
Custom tariff number	85369010
Country of origin	Poland

Technical data

Environmental Product Compliance

China RoHS	No hazardous substances above threshold values

General

Number of positions	1
Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	150 mm²

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Technical data

General

Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	309 A (with 150 mm² conductor cross section)
Nominal current I_N	309 A
Nominal voltage U_N	1500 V
Open side panel	No
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

Dimensions

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

Connection data

Connection method	Power-Turn connection

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Technical data

Connection data

Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	50 mm²
Conductor cross section solid max.	150 mm²
Conductor cross section AWG min.	1/0
Conductor cross section AWG max.	300 kcmil
Conductor cross section flexible min.	50 mm²
Conductor cross section flexible max.	150 mm²
Min. AWG conductor cross section, flexible	1/0
Max. AWG conductor cross section, flexible	300 kcmil
Conductor cross section flexible, with ferrule without plastic sleeve min.	50 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	95 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	50 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	95 mm²
Cross section with insertion bridge solid min.	50 mm²
Cross section with insertion bridge, solid max.	150 mm²
Cross section with insertion bridge stranded min.	50 mm²
Cross section with insertion bridge, stranded max.	150 mm²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	50 mm²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve max.	95 mm²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	50 mm²
Cross section with insertion bridge stranded, with ferrule with plastic sleeve max.	95 mm²
Cross section with insertion bridge, solid max.	150 mm²
Cross section with insertion bridge, stranded max.	150 mm²
Stripping length	40 mm
Internal cylindrical gage	B14

Standards and Regulations

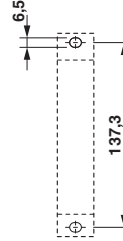|	
Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

Drawings

High-current terminal block - PTPOWER 150 P-F - 3215040

Circuit diagram

Dimensional drawing

Classifications

eCl@ss

eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 4.0	EC000897
ETIM 5.0	EC000897

Approvals

Approvals

Approvals

LR / BV / UL Recognized / cUL Recognized / CSA / DNV GL / cULus Recognized

Ex Approvals

Approval details

LR http://www.lr.org/en 15/20030

BV http://www.veristar.com/wps/portal/!ut/p/_s.7_0_A/7_0_RIM 40933/A1 BV

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Approvals

UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425

	B	C
mm²/AWG/kcmil	2-300	2-300
Nominal current IN	270 A	270 A
Nominal voltage UN	1000 V	1000 V

cUL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425

	C
mm²/AWG/kcmil	2-300
Nominal current IN	270 A
Nominal voltage UN	1000 V

CSA http://www.csagroup.org/us/en/services/testing-and-certification/certified-product-listing 13631

	C
mm²/AWG/kcmil	2-300
Nominal current IN	270 A
Nominal voltage UN	1000 V

DNV GL https://www.dnvgl.com/ TAE00000Z9

cULus Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

Accessories

Accessories

Connector

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Accessories

Ferrule - A 25 -40 - 3241238

Ferrule, Length: 40 mm, Color: silver

Ferrule - A 35 -40 - 3241239

Ferrule, Length: 40 mm, Color: silver

Ferrule - A 50 -40 - 3241240

Ferrule, Length: 40 mm, Color: silver

Ferrule - A 70 -40 - 3241241

Ferrule, Length: 40 mm, Color: silver

Ferrule - A 95 -40 - 3241242

Ferrule, Length: 40 mm, Color: silver

DIN rail

High-current terminal block - PTPOWER 150 P-F - 3215040

Accessories

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730

DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714

DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602

DIN rail 35 mm (NS 35)

DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135

DIN rail 35 mm (NS 35)

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

DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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Accessories

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599

DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586

DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895

DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

End cap - NS 35/15 CAP - 1206573

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

End block

End clamp - E/AL-NS 35 - 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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Accessories

Insertion bridge

Insertion bridge - EB 2-31/PT - 3215057

Insertion bridge, Pitch: 31 mm, Length: 78.4 mm, Width: 54.7 mm, Number of positions: 2, Color: red

Insertion bridge - EB 3-31/PT - 3215058

Insertion bridge, Pitch: 31 mm, Length: 78.4 mm, Width: 85.7 mm, Number of positions: 3, Color: red

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, Color: white

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, Color: red

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, Color: blue

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Accessories

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, Color: yellow

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, Color: green

Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, Color: gray

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, Color: black

Labeled terminal marker

Zack marker strip - ZB 10 CUS - 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: 10.15 x 10.5 mm

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![PHOENIX CONTACT logo]

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Accessories

Zack marker strip - ZB10,LGS:FORTL.ZAHLEN - 1053014

Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 991 - 1000, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

Zack marker strip - ZB10,QR:FORTL.ZAHLEN - 1053027

Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 991 - 1000, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

Zack marker strip - ZB10,LGS:GLEICHE ZAHLEN - 1053030

Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Identical numbers 1 or 2, etc. up to 100, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412

Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

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

Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Horizontal: U, V, W, N, GND, U, V, W, N, GND, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

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Accessories

Marker for terminal blocks - UC-TM 10 CUS - 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: 9.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 10 CUS - 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: 8.9 x 9.6 mm

Zack marker strip - ZB 20,3 CUS - 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: 10.5 x 20.25 mm

Pick-off terminal block

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

Pick-off terminal block, Connection method: Push-in connection, Cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, Width: 18.5 mm, Height: 34.7 mm, Color: gray, Mounting type: On base element

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

Pick-off terminal block, Connection method: Push-in connection, Cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, Width: 18.5 mm, Height: 34.7 mm, Color: blue, Mounting type: On base element

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Accessories

Pick-off terminal block - AGK 10-PTPOWER GN/YE - 3260151

Pick-off terminal block, Connection method: Push-in connection, Cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, Width: 18.5 mm, Height: 34.7 mm, Color: green/yellow, Mounting type: On base element

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

Pick-off terminal block, Connection method: Push-in connection, Cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, Width: 18.5 mm, Height: 34.7 mm, Color: black/yellow, Mounting type: On base element

Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040

Multilingual software for convenient configuration of Phoenix Contact products on standard DIN rails.

Software - CLIP-PROJECT PROFESSIONAL - 5146053

Multilingual software for terminal strip configuration. A marking module enables the professional marking of markers and labels for identifying terminal blocks, conductors and cables, and devices.

Screwdriver tools

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

Terminal marking

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

Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X, Mounting type: Snap into universal marker groove, Snap into tall marker groove, Lettering field: 9.5 x 50000 mm

Marker for terminal blocks - US-TM 100 - 0829255

Marker for terminal blocks, Card, white, unlabeled, can be labeled with: THERMOMARK PRIME, THERMOMARK CARD, Mounting type: Snap into universal marker groove, Lettering field: 104 x 9.8 mm

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001

Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.5 x 10.15 mm

Marker for terminal blocks - UC-TM 10 - 0818069

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 9.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 10 - 0829142

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, THERMOMARK PRIME, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 8.9 x 9.6 mm

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Accessories

Zack marker strip - ZB 20,3:UNPRINTED - 0820248

Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 20.3 mm, Lettering field: 10.5 x 20.25 mm

Test plug terminal block

Test plugs - MPS-MT - 0201744

Test plugs, Color: silver