

High-current terminal block - PTPOWER 150 - 3215000

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High-current terminal block, Connection method: Power-Turn connection, Number of connections: 2, Number of positions: 1, Cross section: 50 mm² - 150 mm², AWG: 1/0 - 300 kcmil, Width: 31 mm, Color: gray, Mounting type: NS 35/15

Your advantages

- ✓ 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

Key commercial data

package_quantity	3
GTIN	4046356902366

Technical data

General

Number of positions	1
Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	150 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0

General

Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	9.55 W
Maximum load current	309 A (with 150 mm ² conductor cross section)
Nominal current I _N	309 A
Nominal voltage U _N	1500 V
Open side panel	No

High-current terminal block - PTPOWER 150 - 3215000

Technical data

General

Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	14.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	6 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	50 mm ² / 9.5 kg
Bending test conductor cross section/weight	150 mm ² / 15 kg
Tensile test result	Test passed
Conductor cross section tensile test	50 mm ²
Tractive force setpoint	236 N
Conductor cross section tensile test	150 mm ²
Tractive force setpoint	427 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35/15-2,3 UNGELOCHT
Setpoint	15 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	150 mm ²
Short-time current	18 kA
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, body mounted
Test frequency	f ₁ = 5 Hz to f ₂ = 150 Hz
ASD level	0.964 (m/s ²) ² /Hz
Acceleration	0.58 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis

High-current terminal block - PTPOWER 150 - 3215000

Technical data

General

Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
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)	27,5 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	116.4 mm
Height NS 35/15	116.5 mm

Connection data

Connection method	Power-Turn connection
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

High-current terminal block - PTPOWER 150 - 3215000

Technical data

Connection data

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

Environmental Product Compliance

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

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
ETIM 6.0	EC000897

UNSPSC

High-current terminal block - PTPOWER 150 - 3215000

Classifications

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

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

Approval details

EAC 
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LR 

BV 

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

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

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

DNV GL

cULus Recognized 

High-current terminal block - PTPOWER 150 - 3215000

Accessories

Pick-off terminal block

AGK 10-PTPOWER - 3260145



AGK 10-PTPOWER BU - 3260148



AGK 10-PTPOWER GN/YE - 3260151



AGK 10-PTPOWER BK/YE - 3260154



Screwdriver tools

SZF 3-1,0X5,5 - 1206612



Insertion bridge

High-current terminal block - PTPOWER 150 - 3215000

Accessories

EB 2-31/PT - 3215057



EB 3-31/PT - 3215058



DIN rail

NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



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Accessories

NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



High-current terminal block - PTPOWER 150 - 3215000

Accessories

End block

E/AL-NS 35 - 1201662



Terminal marking

TMT (EX9,5)R - 0828295



US-TM 100 - 0829255



ZB 10:UNBEDRUCKT - 1053001



UC-TM 10 - 0818069



High-current terminal block - PTPOWER 150 - 3215000

Accessories

UCT-TM 10 - 0829142



ZB 20,3:UNPRINTED - 0820248



Labeled terminal marker

ZB 10 CUS - 0824941



ZB10,LGS:FORTL.ZAHLEN - 1053014



ZB10,QR:FORTL.ZAHLEN - 1053027



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Accessories

ZB10,LGS:GLEICHE ZAHLEN - 1053030



ZB10,LGS:L1-N,PE - 1053412



ZB10,LGS:U-N - 1053438



UC-TM 10 CUS - 0824605



UCT-TM 10 CUS - 0829623



ZB 20,3 CUS - 0824948



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Accessories

Test plug terminal block

MPS-MT - 0201744



Insulating sleeve

MPS-IH WH - 0201663



MPS-IH RD - 0201676



MPS-IH BU - 0201689



MPS-IH YE - 0201692



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Accessories

MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



Planning and marking software

CLIP-PROJECT ADVANCED - 5146040



CLIP-PROJECT PROFESSIONAL - 5146053



Connector

High-current terminal block - PTPOWER 150 - 3215000

Accessories

A 25 -40 - 3241238



A 35 -40 - 3241239



A 50 -40 - 3241240



A 70 -40 - 3241241



A 95 -40 - 3241242



Drawings

Circuit diagram



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