High-current terminal block - PTPOWER 50 - 3260050

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High-current terminal block, Connection method: Power-Turn connection, Number of connections: 2, Cross section: 10 mm² - 70 mm², AWG: 8 - 2/0, Width: 20 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	10
GTIN	4046356998000

Technical data

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	50 mm²
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	4.73 W
Maximum load current	150 A (with 70 mm² conductor cross section)
Nominal current I_N	150 A
Nominal voltage U_N	1500 V
Open side panel	No
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11

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Technical data

General

Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
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	10 mm² / 2 kg
Bending test conductor cross section/weight	50 mm² / 9.5 kg
Bending test conductor cross section/weight	70 mm²/10.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	10 mm²
Tractive force setpoint	90 N
Conductor cross section tensile test	50 mm²
Tractive force setpoint	236 N
Conductor cross section tensile test	70 mm²
Tractive force setpoint	285 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	10 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	50 mm²
Short-time current	6 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 2, bogie-mounted
Test frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 $(m/s^2)^2$/Hz
Acceleration	3.12 g
Test duration per axis	5 h

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General

Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	30g
Shock duration	18 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	20 mm
Length	101 mm
Height NS 35/15	105 mm

Connection data

Connection method	Power-Turn connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	10 mm²
Conductor cross section solid max.	70 mm²
Conductor cross section AWG min.	8
Conductor cross section AWG max.	2/0
Conductor cross section flexible min.	10 mm²
Conductor cross section flexible max.	70 mm²
Min. AWG conductor cross section, flexible	8
Max. AWG conductor cross section, flexible	2/0

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Technical data

Connection data

Conductor cross section flexible, with ferrule without plastic sleeve min.	10 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	10 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm²
Cross section with insertion bridge solid min.	10 mm²
Cross section with insertion bridge, solid max.	50 mm²
Cross section with insertion bridge stranded min.	10 mm²
Cross section with insertion bridge, stranded max.	50 mm²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	10 mm²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve max.	50 mm²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	10 mm²
Cross section with insertion bridge stranded, with ferrule with plastic sleeve max.	50 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	10 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	16 mm²
Cross section with insertion bridge, solid max.	50 mm²
Cross section with insertion bridge, stranded max.	50 mm²
Stripping length	30 mm
Internal cylindrical gage	A10

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 5.0	EC000897

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Classifications

ETIM

ETIM 6.0	EC000897

UNSPSC

UNSPSC 13.2	39121410

Approvals

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

Approval details

CSA		
Usegroups	**B**	**C**
Nominal voltage UN	600 V	1000 V
Nominal current IN	140 A	140 A
mm²/AWG/kcmil	8-1/0	8-1/0

UL Recognized	
Nominal voltage UN	1000 V
Nominal current IN	140 A
mm²/AWG/kcmil	8-1/0

cUL Recognized	
Usegroups	**C**
Nominal voltage UN	1000 V
Nominal current IN	140 A
mm²/AWG/kcmil	8-1/0

DNV GL

LR

BV

cULus Recognized

Accessories

Pick-off terminal block

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Accessories

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

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Accessories

EB 2-20/PT - 3260067

EB 3-20/PT - 3260068

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

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Accessories

End block

E/AL-NS 35 - 1201662

Terminal marking

TMT 10 R - 0816210

ZB 10:UNBEDRUCKT - 1053001

UC-TM 10 - 0818069

UCT-TM 10 - 0829142

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Accessories

ZBF10:UNBEDRUCKT - 0809997

UC-TMF 10 - 0818124

UCT-TMF 10 - 0829204

Labeled terminal marker

TMT 10 R CUS - 0824500

ZB 10 CUS - 0824941

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Accessories

ZB10,LGS:FORTL.ZAHLEN - 1053014

ZB10,QR:FORTL.ZAHLEN - 1053027

ZB10,LGS:GLEICHE ZAHLEN - 1053030

ZB10,LGS:L1-N,PE - 1053412

ZB10,LGS:U-N - 1053438

UC-TM 10 CUS - 0824605

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Accessories

UCT-TM 10 CUS - 0829623

ZBF10 CUS - 0825031

ZBF10,LGS:FORTL.ZAHLEN - 0810009

ZBF10,QR:FORTL.ZAHLEN - 0810025

UC-TMF 10 CUS - 0824662

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Accessories

UCT-TMF 10 CUS - 0829679

Test plug terminal block

MPS-MT - 0201744

Insulating sleeve

MPS-IH WH - 0201663

MPS-IH RD - 0201676

MPS-IH BU - 0201689

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Accessories

MPS-IH YE - 0201692

MPS-IH GN - 0201702

MPS-IH GY - 0201728

MPS-IH BK - 0201731

Planning and marking software

CLIP-PROJECT ADVANCED - 5146040

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Accessories

CLIP-PROJECT PROFESSIONAL - 5146053

Connector

A 25 -40 - 3241238

A 35 -40 - 3241239

A 50 -40 - 3241240

A 70 -40 - 3241241

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Accessories

A 95 -40 - 3241242

Drawings

Circuit diagram