

High-current terminal block - PTPOWER 50 - 3260050

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High-current terminal block, nom. voltage: 1000 V AC / 1500 V DC, nominal current: 150 A, connection method: Power-Turn connection, number of connections: 2, number of positions: 1, 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

Packing unit	10 pc
GTIN	 4 046356 998000
GTIN	4046356998000

Technical data

General

Number of positions	1
Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	50 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III

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Technical data

General

Insulating material group	I
Maximum power dissipation for nominal condition	4.73 W
Maximum load current	150 A (with 70 mm ² conductor cross section)
Nominal current I _N	150 A
Nominal voltage U _N	1000 V AC
	1500 V DC
Open side panel	No
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	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 mm ² / 2 kg
	50 mm ² / 9.5 kg
	70 mm ² /10.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	10 mm ²
Tractive force setpoint	90 N
Conductor cross section tensile test	50 mm ²
Tractive force setpoint	236 N
Conductor cross section tensile test	70 mm ²
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 mm ²
Short-time current	6 kA
Result of thermal test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of aging test	Test passed

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General

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	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$
Acceleration	3.12 g
Test duration per axis	5 h
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
Stripping length	30 mm ... 32 mm
Connection in acc. with standard	IEC 60947-7-1

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Technical data

Connection data

Conductor cross section solid min.	10 mm ²
Conductor cross section solid max.	70 mm ²
Conductor cross section AWG min.	8
Conductor cross section AWG max.	2/0
Conductor cross section flexible min.	10 mm ²
Conductor cross section flexible max.	70 mm ²
Min. AWG conductor cross section, flexible	8
Max. AWG conductor cross section, flexible	2/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	10 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	10 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm ²
Cross section with insertion bridge solid min.	10 mm ²
Cross section with insertion bridge, solid max.	50 mm ²
Cross section with insertion bridge stranded min.	10 mm ²
Cross section with insertion bridge, stranded max.	50 mm ²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	10 mm ²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve max.	50 mm ²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	10 mm ²
Cross section with insertion bridge stranded, with ferrule with plastic sleeve max.	50 mm ²
Internal cylindrical gage	A10

Standards and Regulations

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

Environmental Product Compliance

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

Drawings

Circuit diagram



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Approvals

Approvals

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

Ex Approvals

Approval details

DNV GL		http://exchange.dnv.com/tari/	TAE00000Z9
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CSA		http://www.csagroup.org/services-industries/product-listing/	13631
	B	C	
Nominal voltage UN	600 V	1000 V	
Nominal current IN	140 A	140 A	
mm²/AWG/kcmil	8	8	

BV		http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	40933/A1 BV
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LR		http://www.lr.org/en	15/20030
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
Nominal voltage UN	1000 V		
Nominal current IN	140 A		
mm²/AWG/kcmil	8		

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Approvals

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
		C	
Nominal voltage UN	1000 V		
Nominal current IN	140 A		
mm²/AWG/kcmil	8		

EAC		RU C- DE.A*30.B.01742
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EAC		RU C- DE.AI30.B.01102
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cULus Recognized	
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