

High-current terminal block - PTPOWER 185 - 1054722

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High-current terminal block, nom. voltage: 1000 V AC / 1500 V DC, nominal current: 309 A, connection method: Power-Turn connection, number of connections: 2, number of positions: 1, cross section: 95 mm² - 185 mm², AWG: 3/0 - 350 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
- In addition to using the existing test connection, pick-off terminal blocks can be connected, each of which can also accommodate two test cables
- The compact design enables wiring in a confined space



Key Commercial Data

Packing unit	3 pc
Minimum order quantity	3 pc
GTIN	 4 0 5 5 6 2 6 6 8 9 6 6 1
GTIN	4055626689661
Weight per Piece (excluding packing)	350.300 g
Custom tariff number	85369010
Country of origin	Poland
Sales Key	BE2211

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

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Technical data

General

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 power dissipation for nominal condition	11.21 W
Maximum load current	309 A (with 185 mm ² conductor cross section)
Nominal current I _N	309 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
Result of surge voltage test	Test passed
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 flexion and pull-out test	Test passed
Bending test conductor cross section/weight	95 mm ² /14 kg
	150 mm ² / 15 kg
Tensile test result	Test passed
Conductor cross section tensile test	95 mm ²
Tractive force setpoint	351 N
Conductor cross section tensile test	150 mm ²
Tractive force setpoint	427 N
Conductor cross section tensile test	185 mm ²
Tractive force setpoint	503 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35/15
Setpoint	15 N
Result of voltage-drop test	Test passed
Result of temperature-rise test	Test passed
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Short circuit stability result	Test passed
Conductor cross section short circuit testing	150 mm ²
Short-time current	18 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	10 s
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192

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Technical data

General

Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2018-05
Test spectrum	Service life test category 1, class B, body mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	0.58 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):2018-05
Shock form	Half-sine
Acceleration	5g
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
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
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	1 level
Connection method	Power-Turn connection
Stripping length	40 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	95 mm ²
Conductor cross section solid max.	185 mm ²
Conductor cross section AWG min.	3/0
Conductor cross section AWG max.	350 kcmil

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Technical data

Connection data

Conductor cross section flexible min.	95 mm ²
Conductor cross section flexible max.	185 mm ²
Min. AWG conductor cross section, flexible	3/0
Max. AWG conductor cross section, flexible	350 kcmil
Conductor cross section flexible, with ferrule without plastic sleeve min.	95 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	150 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	95 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	150 mm ²
Cross section with insertion bridge solid min.	95 mm ²
Cross section with insertion bridge, solid max.	150 mm ²
Cross section with insertion bridge stranded min.	95 mm ²
Cross section with insertion bridge, stranded max.	150 mm ²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	95 mm ²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve max.	120 mm ²
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	95 mm ²
Cross section with insertion bridge stranded, with ferrule with plastic sleeve max.	120 mm ²
Connection cross sections directly pluggable	95 mm ² 185 mm ²
Conductor cross section solid min.	95 mm ²
Conductor cross section solid max.	185 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	95 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	150 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	95 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	150 mm ²
Internal cylindrical gage	B14

Ambient conditions

Operating temperature	-60 °C ... 105 °C (max. short-term operating temperature 130°C)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C

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
	No hazardous substances above threshold values

<https://www.phoenixcontact.com/gb/products/1054722>



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