

PTPOWER 185-3L/N/FE - High-current terminal block



1054731

<https://www.phoenixcontact.com/us/products/1054731>

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 309 A, number of connections: 10, number of positions: 5, connection method: PowerTurn connection, 1 level, cross section: 95 mm² - 185 mm², mounting type: NS 35/15, color: gray/blue/black-yellow

Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- In addition to using the existing test pick-off, 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
- 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

Commercial data

Item number	1054731
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BE22
Product key	BE2211
GTIN	4055626691312
Weight per piece (including packing)	1,716 g
Weight per piece (excluding packing)	1,663 g
Customs tariff number	85369010
Country of origin	TR

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Technical data

Product properties

Product type	High current terminal block
Number of positions	5
Pitch	31 mm
Number of connections	10
Number of rows	1
Potentials	5

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	9.55 W

Connection data

Number of connections per level	10
Nominal cross section	150 mm ²

1 level

Connection method	PowerTurn connection
Stripping length	40 mm
Internal cylindrical gage	B14
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	95 mm ² ... 185 mm ²
Cross section AWG	250 kcmil ... 350 kcmil (converted acc. to IEC)
Conductor cross-section flexible	95 mm ² ... 185 mm ²
Conductor cross-section, flexible [AWG]	250 kcmil ... 350 kcmil (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	95 mm ² ... 150 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	95 mm ² ... 150 mm ²
Cross-section with insertion bridge, rigid	95 mm ² ... 150 mm ²
Cross-section with insertion bridge, flexible	95 mm ² ... 150 mm ²
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	95 mm ² (120 mm ²)
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	95 mm ² ... 120 mm ²
Nominal current	309 A
Maximum load current	309 A (with 150 mm ² conductor cross-section)
Nominal voltage	1000 V

1 level Connection cross sections directly pluggable

Conductor cross-section rigid	95 mm ² ... 185 mm ²
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Conductor cross-section flexible (ferrule without plastic sleeve)	95 mm ² ... 150 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	95 mm ² ... 150 mm ²

Dimensions

Width	155 mm
Height	116.4 mm
Depth on NS 35/15	108.7 mm
Pitch	31 mm

Material specifications

Color	multicolored (RAL -)
	gray (RAL 7042)
	blue (RAL 5015)
	black (RAL 9005)
	yellow (RAL 1018)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
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
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

Electrical tests

Surge voltage test

Test voltage setpoint	12.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 150 mm ²	18 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

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Mechanical data

Open side panel	No
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

DIN rail/fixing support	NS 35/15
Test force setpoint	15 N
Result	Test passed

Test for conductor damage and slackening

Conductor cross-section/weight	95 mm ² /14 kg
	150 mm ² / 15 kg
	185 mm ² /16.8 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	10 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	0.964 (m/s ²)/Hz
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

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Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
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Mounting

Mounting type	NS 35/15
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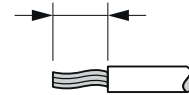
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Drawings

Schematic diagram

PTPOWER



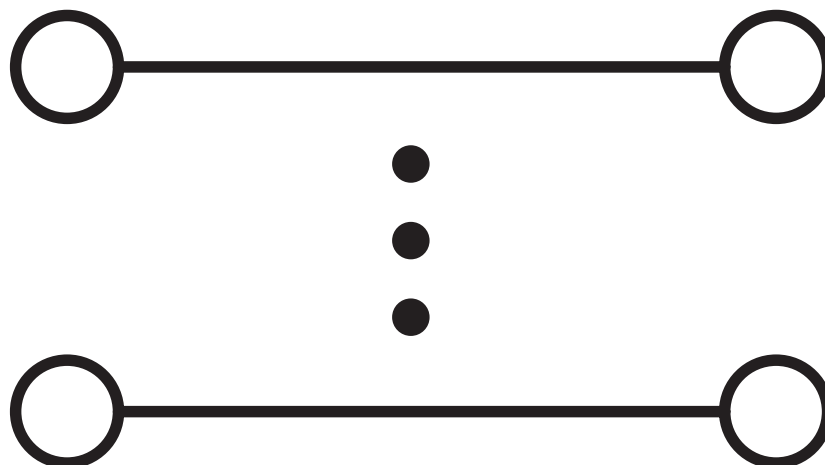
AGK 10-PTPOWER	0,5 mm ² ... 16 mm ²	18 mm
PTPOWER 35	2,5 mm ² ... 35 mm ²	25 mm
PTPOWER 50	10 mm ² ... 50 mm ²	32 mm
PTPOWER 95	25 mm ² ... 95 mm ²	40 mm
PTPOWER 185	95 mm ² ... 185 mm ²	40 mm



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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1054731>

 UL Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
F	1000 V	290 A	3/0 - 350	-
E	1000 V	290 A	3/0 - 350	-

 EAC Approval ID: RU C-DE.BL08.B.00644				
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DNV Approval ID: TAE00000Z9				
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 EAC Approval ID: KZ7500651131219505				
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Classifications

ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

ETIM

ETIM 10.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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EF3.1 Climate Change

CO2e kg	22.123 kg CO2e
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