

# PTPOWER 185 3L/FE-F - High-current terminal block



1054737

<https://www.phoenixcontact.com/us/products/1054737>

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 309 A, number of connections: 8, number of positions: 4, connection method: PowerTurn connection, 1 level, cross section: 95 mm<sup>2</sup> - 185 mm<sup>2</sup>, mounting type: direct screw connection, color: gray/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 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

## Commercial data

Item number	1054737
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BE22
Product key	BE2211
GTIN	4055626690452
Weight per piece (including packing)	1,414.1 g
Weight per piece (excluding packing)	1,414 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	4
Pitch	31 mm
Number of connections	8
Number of rows	1
Potentials	4

### 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	8
Nominal cross section	150 mm <sup>2</sup>

#### 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 <sup>2</sup> ... 185 mm <sup>2</sup>
Cross section AWG	250 kcmil ... 350 kcmil (converted acc. to IEC)
Conductor cross-section flexible	95 mm <sup>2</sup> ... 185 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	250 kcmil ... 350 kcmil (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	95 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	95 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Cross-section with insertion bridge, rigid	95 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Cross-section with insertion bridge, flexible	95 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	95 mm <sup>2</sup> (120 mm <sup>2</sup> )
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	95 mm <sup>2</sup> ... 120 mm <sup>2</sup>
Nominal current	309 A
Maximum load current	309 A (with 150 mm <sup>2</sup> conductor cross-section)
Nominal voltage	1000 V

#### 1 level Connection cross sections directly pluggable

Conductor cross-section rigid	95 mm <sup>2</sup> ... 185 mm <sup>2</sup>
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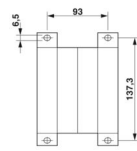


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Conductor cross-section flexible (ferrule without plastic sleeve)	95 mm <sup>2</sup> ... 150 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	95 mm <sup>2</sup> ... 150 mm <sup>2</sup>

## Dimensions

Dimensional drawing	
Width	124 mm
Height	150 mm
Depth	108.3 mm
Drill hole spacing	126.4 mm
Hole diameter	6.5 mm
Pitch	31 mm

## Material specifications

Color	multicolored (RAL -) gray (RAL 7042) 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 <sup>2</sup>	18 kA
Result	Test passed

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## Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	No
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### Technical data

Drill hole spacing	126.4 mm
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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 <sup>2</sup> /14 kg
	150 mm <sup>2</sup> / 15 kg
	185 mm <sup>2</sup> /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 <sup>2</sup> )/Hz
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

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## 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

## 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	direct screw connection
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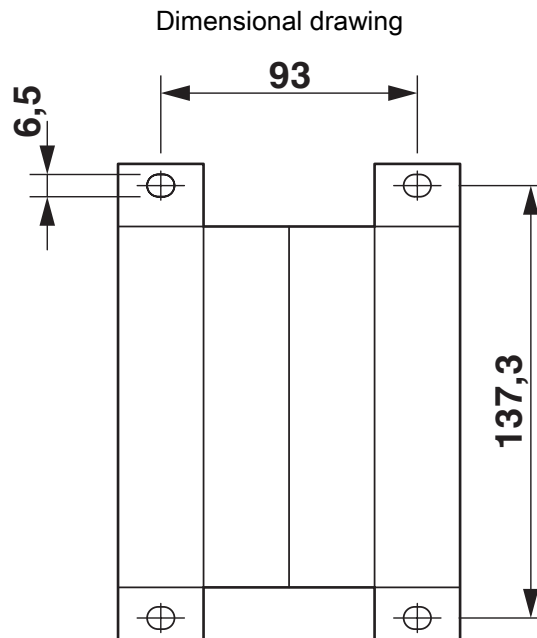
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## Drawings



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Schematic diagram

## PTPOWER



AGK 10-PTPOWER	0,5 mm <sup>2</sup> ... 16 mm <sup>2</sup>	18 mm
PTPOWER 35	2,5 mm <sup>2</sup> ... 35 mm <sup>2</sup>	25 mm
PTPOWER 50	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>	32 mm
PTPOWER 95	25 mm <sup>2</sup> ... 95 mm <sup>2</sup>	40 mm
PTPOWER 185	95 mm <sup>2</sup> ... 185 mm <sup>2</sup>	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/1054737>

 <b>UL Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
F	1000 V	290 A	3/0 - 350	-
E	1000 V	290 A	3/0 - 350	-

 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00644				
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<b>DNV</b> Approval ID: TAE00000Z9				
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 <b>EAC</b> 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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