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^2 - 185 mm^2, 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

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 mm²

1 level

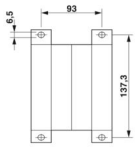
Connection method	PowerTurn connection
Stripping length	40 mm
Internal cylindrical gage	B14
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	95 mm² ... 185 mm²
Cross section AWG	250 kcmil ... 350 kcmil (converted acc. to IEC)
Conductor cross-section flexible	95 mm² ... 185 mm²
Conductor cross-section, flexible [AWG]	250 kcmil ... 350 kcmil (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	95 mm² ... 150 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	95 mm² ... 150 mm²
Cross-section with insertion bridge, rigid	95 mm² ... 150 mm²
Cross-section with insertion bridge, flexible	95 mm² ... 150 mm²
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	95 mm² (120 mm²)
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	95 mm² ... 120 mm²
Nominal current	309 A
Maximum load current	309 A (with 150 mm² conductor cross-section)
Nominal voltage	1000 V

1 level Connection cross sections directly pluggable

Conductor cross-section rigid	95 mm² ... 185 mm²

Conductor cross-section flexible (ferrule without plastic sleeve)	95 mm² ... 150 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	95 mm² ... 150 mm²

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 mm²	18 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No

Technical data

Drill hole spacing	126.4 mm

Mechanical tests

Mechanical strength

Result	Test passed

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 mm²/14 kg
	150 mm² / 15 kg
	185 mm² /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 Hz to f_2 = 250 Hz
ASD level	0.964 (m/s²)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

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

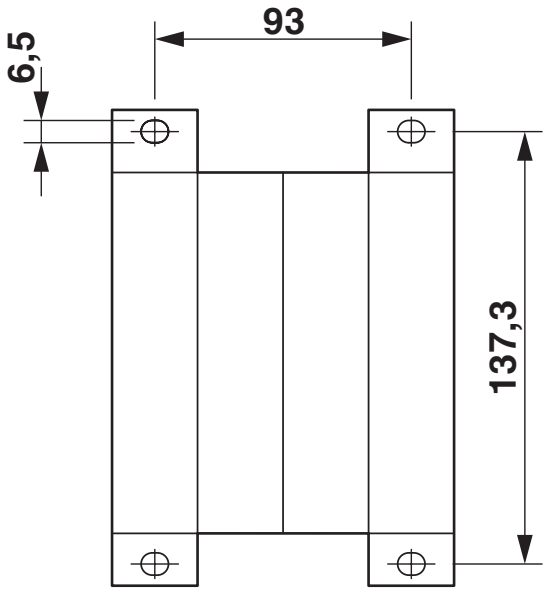
Connection in acc. with standard	IEC 60947-7-1

Mounting

Mounting type	direct screw connection

Drawings

Dimensional drawing

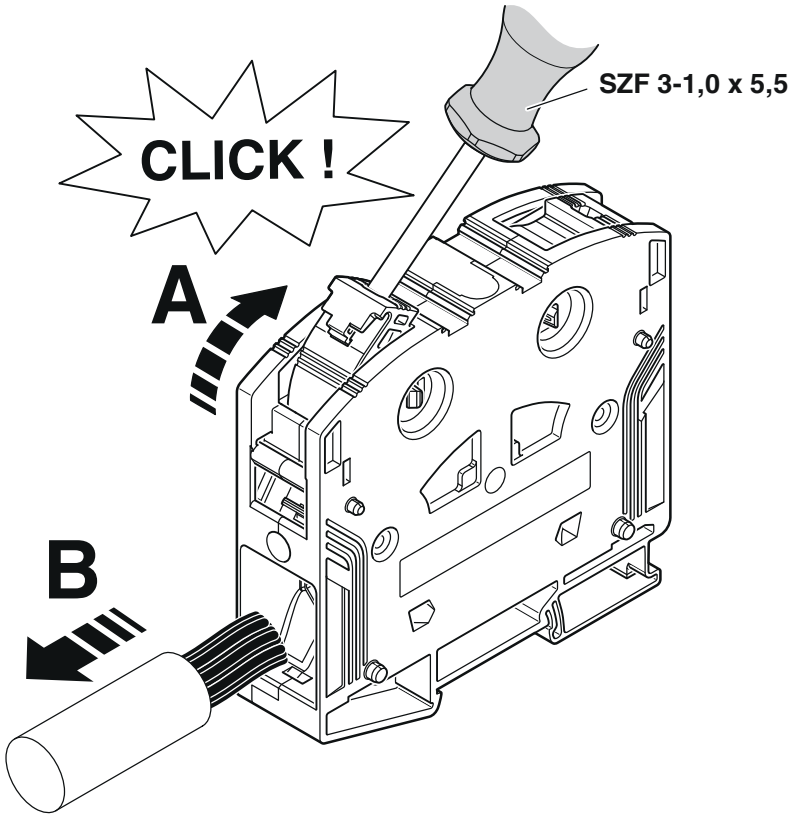


Schematic diagram

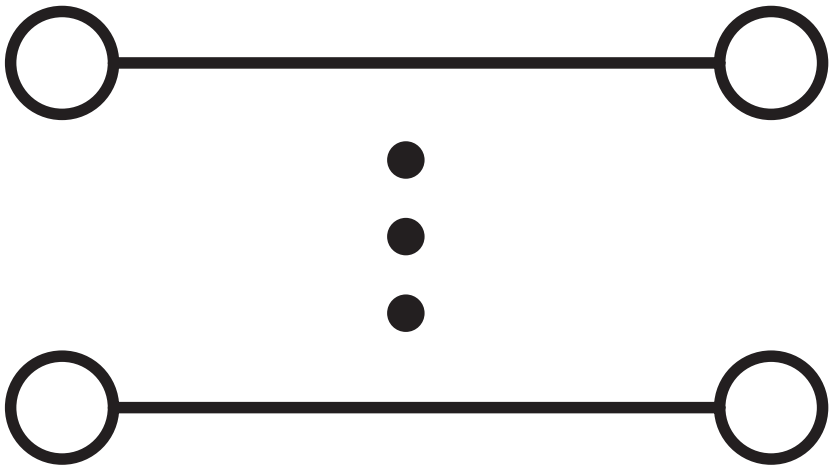
PTPOWER



AGK 10-PTPOWER	**0,5 mm² ... 16 mm²**	**18 mm**
PTPOWER 35	**2,5 mm² ... 35 mm²**	**25 mm**
PTPOWER 50	**10 mm² ... 50 mm²**	**32 mm**
PTPOWER 95	**25 mm² ... 95 mm²**	**40 mm**
PTPOWER 185	**95 mm² ... 185 mm²**	**40 mm**



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1054737

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

DNV
Approval ID: TAE00000Z9

EAC
Approval ID: KZ7500651131219505

Classifications

ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

ETIM

ETIM 10.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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%

EF3.1 Climate Change

CO2e kg	18.007 kg CO2e

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