

PTPOWER 50-F - High-current terminal block



3260061

<https://www.phoenixcontact.com/pc/products/3260061>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 2, number of positions: 1, connection method: PowerTurn connection, 1 level, cross section: 10 mm² - 70 mm², mounting type: direct screw connection, color: gray

Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- The compact design enables wiring in a confined space
- 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

Commercial data

Item number	3260061
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	BE2211
Catalog page	Page 137 (C-1-2019)
GTIN	4046356998055
Weight per piece (including packing)	170.9 g
Weight per piece (excluding packing)	163.51 g
Customs tariff number	85369010
Country of origin	PL

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3260061

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Technical data

Product properties

Product type	High current terminal block
Number of positions	1
Pitch	20 mm
Number of connections	2
Number of rows	1
Potentials	1

Data management status

Article revision	08
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	4.73 W

Connection data

Number of connections per level	2
Nominal cross section	50 mm ²
Rated cross section AWG	2/0

1 level

Stripping length	30 mm ... 32 mm
Internal cylindrical gage	A10
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	10 mm ² ... 70 mm ²
Cross section AWG	6 ... 2/0 (converted acc. to IEC)
Conductor cross section flexible	10 mm ² ... 70 mm ²
Conductor cross section, flexible [AWG]	6 ... 2/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm ² ... 50 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	10 mm ² ... 50 mm ²
Cross-section with insertion bridge, rigid	10 mm ² ... 50 mm ²
Cross-section with insertion bridge, flexible	10 mm ² ... 50 mm ²
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	10 mm ² ... 50 mm ²
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	10 mm ² ... 50 mm ²
Nominal current	150 A
Maximum load current	150 A (with 50 mm ² conductor cross section)
Nominal voltage	1000 V

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3260061

<https://www.phoenixcontact.com/pc/products/3260061>

1 level Connection cross sections directly pluggable

Conductor cross section rigid	10 mm ² ... 70 mm ²
Conductor cross section, rigid [AWG]	8 ... 2/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm ² ... 50 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	10 mm ² ... 50 mm ²

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1206612 SZF 3-1,0X5,5 1201662 E/AL-NS 35
List of bridges	/ EB 2-20/PT / 3260067 / EB 3-20/PT / 3260068
Bridge data	131 A / 50 mm ²
Ex temperature increase	40 K (147 A / 50 mm ²)
Rated voltage	1100 V
at bridging with insertion bridge	1100 V
Rated insulation voltage	1000 V
output	(Permanent)

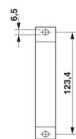
Ex level General

Rated current	134 A
Maximum load current	134 A
Contact resistance	0.16 mΩ

Ex connection data General

Ferrule length	30 mm ... 32 mm
Stripping length	30 mm
Nominal cross section	50 mm ²
Rated cross section AWG	1/0
Connection capacity rigid	10 mm ² ... 70 mm ²
Connection capacity AWG	8 ... 2/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	16 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm ²

Dimensions

Dimensional drawing	
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PTPOWER 50-F - High-current terminal block



3260061

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Width	20 mm
Height	136.1 mm
Depth	96 mm
Drill hole spacing	123.4 mm
Hole diameter	6.5 mm
Pitch	20 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
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	9.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature \leq 45 K
Result	Test passed
Short-time withstand current 50 mm ²	6 kA
Result	Test passed

Power-frequency withstand voltage

Result	Test passed
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Mechanical properties

Mechanical data

Open side panel	No
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Technical data

Drill hole spacing	123.4 mm
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

Test force setpoint	10 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	10 mm ² / 2 kg
	50 mm ² / 9.5 kg
	70 mm ² /10.4 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 2, bogie-mounted
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	3.12g
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	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

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3260061

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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, no longer than 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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Drawings

Circuit diagram



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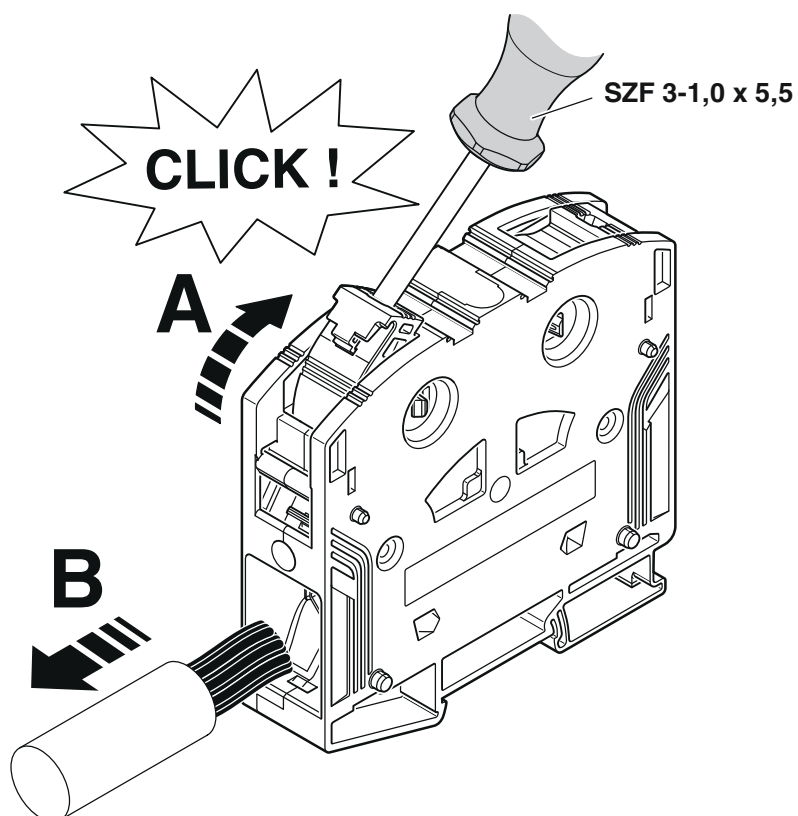
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Schematic diagram

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



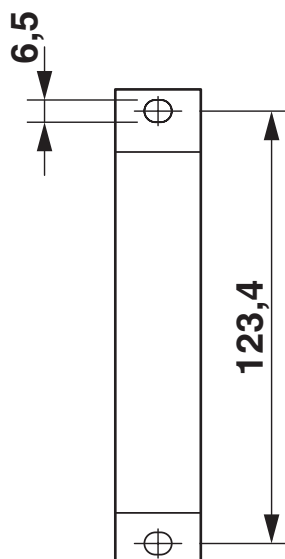
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Dimensional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/3260061>



CSA
Approval ID: 13631



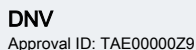
cUL Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group C				
	1000 V	140 A	8 - 1/0	-



UL Recognized
Approval ID: E60425

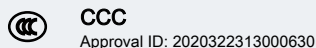
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group E				
	1000 V	140 A	8 - 1/0	-



DNV
Approval ID: TAE0000029



CSA
Approval ID: 13631



CCC
Approval ID: 2020322313000630



UKCA-EX
Approval ID: CML 22UKEX1227U



IECEx
Approval ID: IECExSEV14.0013U




ATEX
Approval ID: SEV14ATEX0156U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only rigid conductors	1100 V	134 A	-	10 - 70
multi-stranded with	1100 V	134 A	-	16 - 50

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ferrule	
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<div> IECEx Approval ID: IECExSEV14.0013U</div>				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	1100 V	134 A	-	-
Only rigid conductors	1100 V	134 A	-	-
multi-stranded with ferrule	1100 V	134 A	-	-

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	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
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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