

PTPOWER 50 P-F - High-current terminal block



1091232

<https://www.phoenixcontact.com/sg/products/1091232>

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High-current terminal block, with test socket, 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
- 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	1091232
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	BE2211
GTIN	4055626903514
Weight per piece (including packing)	168.61 g
Weight per piece (excluding packing)	145.34 g
Customs tariff number	85369010
Country of origin	PL

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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

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

1 level Connection cross sections directly pluggable

Conductor cross section rigid	10 mm ² ... 70 mm ²
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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	Ex 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

Width	20 mm
Height	101 mm
Depth on NS 35/15	105 mm
Drill hole spacing	123.4 mm
Hole diameter	6.5 mm
Pitch	20 mm

Material specifications

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1091232

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Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

Mechanical properties

Mechanical data

Open side panel	No
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Technical data

Drill hole spacing	123.4 mm
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Environmental and real-life conditions

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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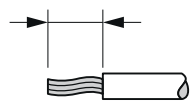
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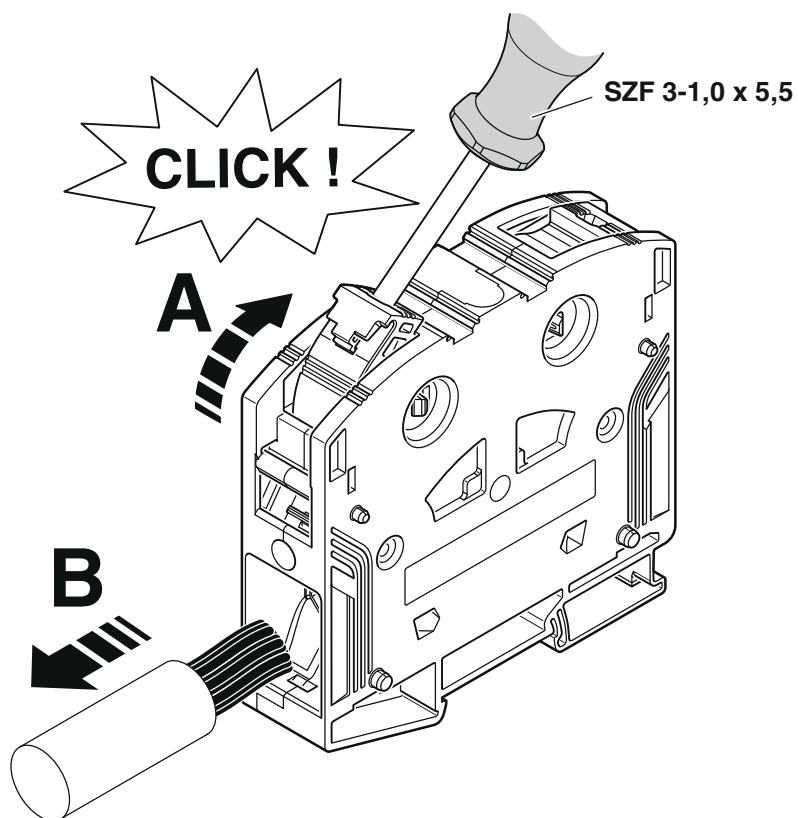
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Drawings

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/sg/products/1091232>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	600 V	140 A	8 - 1/0	-
Use group C				
	1000 V	140 A	8 - 1/0	-

 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	-

 EAC Approval ID: RU C-DE.BL08.B.00644				
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DNV Approval ID: TAE00000Z9				
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 EAC Approval ID: EACKZ 08593				
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 UKCA-EX Approval ID: CML 22UKEX1227U				
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 IECEx Approval ID: IECExSEV14.0013U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only rigid conductors	1100 V	134 A	-	10 - 70

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multi-stranded with ferrule	1100 V	134 A	-	16 - 50
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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 ferrule	1100 V	134 A	-	16 - 50

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
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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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