

# PTPOWER 50 P-3L/N/FE-F - High-current terminal block



1091229

<https://www.phoenixcontact.com/gb/products/1091229>

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High-current terminal block, with test socket, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 8, number of positions: 5, connection method: PowerTurn connection, 1 level, cross section: 10 mm<sup>2</sup> - 70 mm<sup>2</sup>, mounting type: direct screw connection, color: gray/black-yellow

## Commercial data

Item number	1091229
Packing unit	2 pc
Minimum order quantity	2 pc
Sales key	BE2211
Product key	BE2211
GTIN	4055626903330
Weight per piece (including packing)	838.6 g
Weight per piece (excluding packing)	805.5 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

### Product properties

Product type	High current terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	5
Pitch	20 mm
Number of connections	8
Number of rows	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	8
Nominal cross section	50 mm <sup>2</sup>
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 <sup>2</sup> ... 70 mm <sup>2</sup>
Cross section AWG	6 ... 2/0 (converted acc. to IEC)
Conductor cross section flexible	10 mm <sup>2</sup> ... 70 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	6 ... 2/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Cross-section with insertion bridge, rigid	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Cross-section with insertion bridge, flexible	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Nominal current	150 A
Maximum load current	150 A (with 50 mm <sup>2</sup> conductor cross section)
Nominal voltage	1000 V

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## 1 level Connection cross sections directly pluggable

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

## 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 <sup>2</sup> )
Ex temperature increase	40 K (147 A / 50 mm <sup>2</sup> )
at bridging with insertion bridge	1100 V
Rated insulation voltage	1000 V
output	(Permanent)

### Ex level General

Rated voltage	1100 V
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 <sup>2</sup>
Rated cross section AWG	1/0
Connection capacity rigid	10 mm <sup>2</sup> ... 70 mm <sup>2</sup>
Connection capacity AWG	8 ... 2/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	16 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm <sup>2</sup>

## Dimensions

Width	100 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

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## Material specifications

Color	multicolored
	gray (RAL 7042)
	black (RAL 9005)
	yellow (RAL 1018)
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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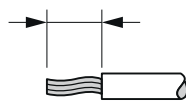
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## Drawings

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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## Approvals

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 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	600 V	140 A	8 - 1/0	-
Use group C				
	1000 V	140 A	8 - 1/0	-


 <b>cUL Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group C	1000 V	140 A	8 - 1/0	-


 <b>UL Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group E	1000 V	140 A	8 - 1/0	-

 <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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 <b>UKCA-EX</b> Approval ID: CML 22UKEX1227U				
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 <b>IECEx</b> Approval ID: IECExSEV14.0013U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
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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<div> <b>ATEX</b> Approval ID: SEV14ATEX0156U</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Only rigid conductors	1100 V	134 A	-	10 - 70
multi-stranded with ferrule	1100 V	134 A	-	16 - 50

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## Classifications

### ECLASS

ECLASS-13.0	27250101
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### 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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