

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



3260059

<https://www.phoenixcontact.com/us/products/3260059>

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 8, number of positions: 4, 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

## 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	3260059
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BE22
Product key	BE2211
GTIN	4046356998680
Weight per piece (including packing)	627.933 g
Weight per piece (excluding packing)	627.933 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	4
Pitch	20 mm
Number of connections	8
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	8
Nominal cross section	50 mm <sup>2</sup>
Rated cross section AWG	2/0

#### 1 level

Connection method	PowerTurn connection
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	8 ... 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]	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>
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)

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Nominal voltage	1000 V
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>

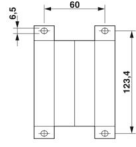
## Dimensions

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



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Dimensional drawing	
Width	80 mm
Height	96 mm
Drill hole spacing	123.4 mm
Hole diameter	6.5 mm
Pitch	20 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
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

## 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 (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

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Ambient temperature (actuation)	-5 °C ... 70 °C
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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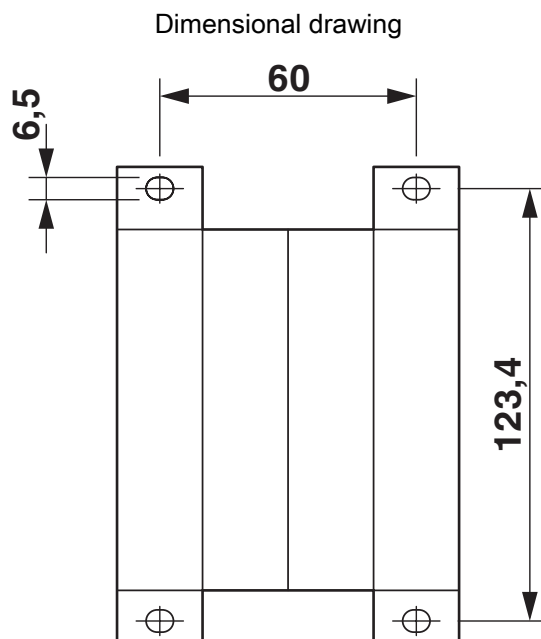
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## Drawings



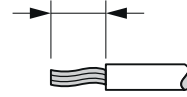
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Schematic diagram

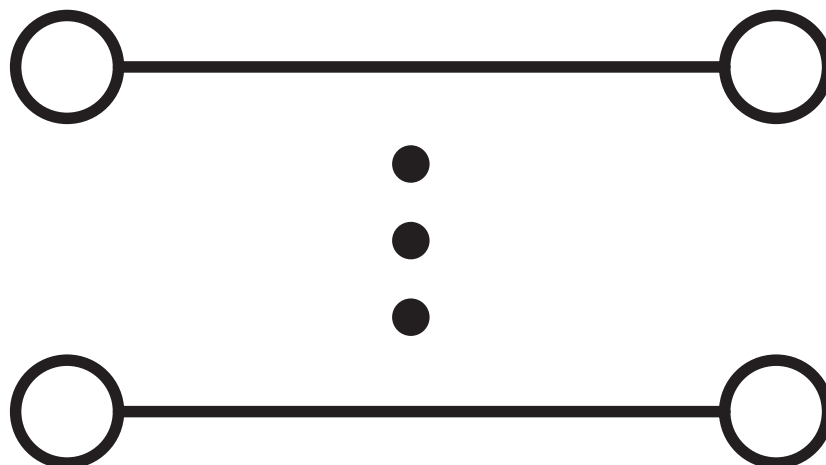
## PTPOWER



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



Circuit diagram



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## Classifications

### 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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