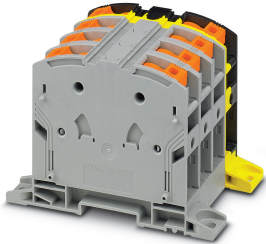


## High-current terminal block - PTPOWER 50-3L/FE-F - 3260059

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High-current terminal block, Blocked, nom. voltage: 1000 V AC / 1500 V DC, nominal current: 150 A, connection method: Power-Turn connection, number of connections: 8, number of positions: 4, cross section: 10 mm<sup>2</sup> - 70 mm<sup>2</sup>, AWG: 8 - 2/0, width: 80 mm, height: 96 mm, color: gray/black-yellow, mounting type: direct screw connection

### 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 connection, 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



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	3 pc
GTIN	 4 046356 998680
GTIN	4046356998680
Weight per Piece (excluding packing)	680.000 g
Custom tariff number	85369010
Country of origin	Poland

### Technical data

#### General

Number of positions	4
Number of levels	1
Number of connections	8
Potentials	1

# High-current terminal block - PTPOWER 50-3L/FE-F - 3260059

## Technical data

### General

Nominal cross section	50 mm <sup>2</sup>
Color	gray/black-yellow
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Machine building
	Plant engineering
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	4.73 W
Maximum load current	150 A (with 50 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	150 A
Nominal voltage U <sub>N</sub>	1000 V AC
	1500 V DC
Open side panel	No
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
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

### Dimensions

Width	80 mm
Length	101 mm
Height	96 mm
Hole diameter	6.5 mm
Drill hole spacing	123.4 mm
Pitch	20 mm

### Connection data

# High-current terminal block - PTPOWER 50-3L/FE-F - 3260059

## Technical data

### Connection data

Connection	1 level
Connection method	Power-Turn connection
Stripping length	30 mm ... 32 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	10 mm <sup>2</sup>
Conductor cross section solid max.	70 mm <sup>2</sup>
Conductor cross section AWG min.	8
Conductor cross section AWG max.	2/0
Conductor cross section flexible min.	10 mm <sup>2</sup>
Conductor cross section flexible max.	70 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	8
Max. AWG conductor cross section, flexible	2/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	10 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	10 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm <sup>2</sup>
Cross section with insertion bridge solid min.	10 mm <sup>2</sup>
Cross section with insertion bridge, solid max.	50 mm <sup>2</sup>
Cross section with insertion bridge stranded min.	10 mm <sup>2</sup>
Cross section with insertion bridge, stranded max.	50 mm <sup>2</sup>
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	10 mm <sup>2</sup>
Cross section with insertion bridge stranded, with ferrule without plastic sleeve max.	50 mm <sup>2</sup>
Cross section with insertion bridge stranded, with ferrule without plastic sleeve min.	10 mm <sup>2</sup>
Cross section with insertion bridge stranded, with ferrule with plastic sleeve max.	50 mm <sup>2</sup>
Connection cross sections directly pluggable	10 mm <sup>2</sup> 70 mm <sup>2</sup> 8 2/0
Conductor cross section solid min.	10 mm <sup>2</sup>
Conductor cross section solid max.	70 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	10 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	10 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm <sup>2</sup>
Internal cylindrical gage	A10

### Ambient conditions

Operating temperature	-60 °C ... 105 °C (max. short-term operating temperature 130°C)
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# High-current terminal block - PTPOWER 50-3L/FE-F - 3260059

## Technical data

### Ambient conditions

Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C

### Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

### Environmental Product Compliance

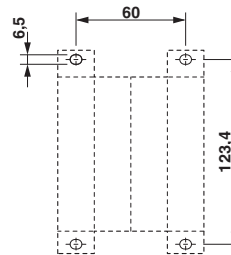
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Circuit diagram




Dimensional drawing



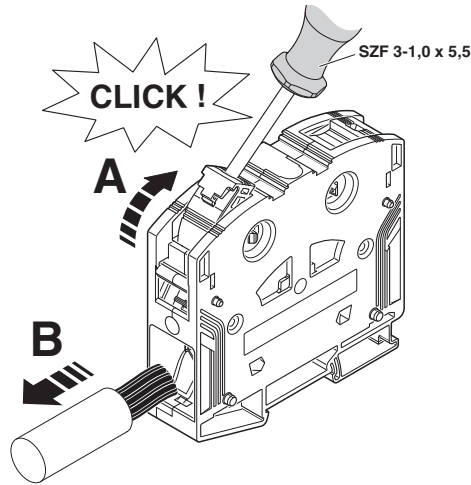
# High-current terminal block - PTPOWER 50-3L/FE-F - 3260059

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	0,5 mm <sup>2</sup> ... 50 mm <sup>2</sup>	32 mm
PTPOWER 95	0,5 mm <sup>2</sup> ... 95 mm <sup>2</sup>	40 mm
PTPOWER 185	0,5 mm <sup>2</sup> ... 185 mm <sup>2</sup>	40 mm



## Classifications

eCl@ss

eCl@ss 10.0.1	27141190
eCl@ss 11.0	27141190
eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 6.0	EC000897

# High-current terminal block - PTPOWER 50-3L/FE-F - 3260059

## Classifications

### ETIM

ETIM 7.0	EC000897
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### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

## Approvals

### Approvals


#### Approvals

DNV GL / CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

### Approval details

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE00000Z9
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CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	13631
	B	C	
Nominal voltage UN	600 V	1000 V	
Nominal current IN	140 A	140 A	
mm <sup>2</sup> /AWG/kcmil	8	8	

# High-current terminal block - PTPOWER 50-3L/FE-F - 3260059

## Approvals

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
Nominal voltage UN	1000 V		
Nominal current IN	140 A		
mm <sup>2</sup> /AWG/kcmil	8		

cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
		C	
Nominal voltage UN	1000 V		
Nominal current IN	140 A		
mm <sup>2</sup> /AWG/kcmil	8		

EAC		RU C- DE.AI30.B.01102
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cULus Recognized	
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