

## High-current terminal block - PTPOWER 35-F - 3212078

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High-current terminal block, Connection method: Power-Turn connection, Cross section: 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>, AWG: 12 - 2, Width: 16 mm, Height: 68.3 mm, Color: gray, Mounting type: NS 35/15

### Why buy this product

- ✓ Quick and easy connection is now also possible for large conductors with the high-current terminal block
- ✓ 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 and front connection enable wiring in a confined space
- ✓ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection

RoHS

### Key Commercial Data

Packing unit	1 STK
Minimum order quantity	10 STK
GTIN	 4 046356 869829
GTIN	4046356869829
Weight per Piece (excluding packing)	95.000 g
Custom tariff number	85369010
Country of origin	Poland

### Technical data

#### General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	35 mm <sup>2</sup>

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## Technical data

### General

Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	125 A (with 35 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	125 A
Nominal voltage U <sub>N</sub>	1000 V
Open side panel	No
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	2.5 mm <sup>2</sup> / 0.7 kg
	35 mm <sup>2</sup> / 6.8 kg
Tensile test result	Test passed
Conductor cross section tensile test	2.5 mm <sup>2</sup>
Tractive force setpoint	50 N
Conductor cross section tensile test	35 mm <sup>2</sup>
Tractive force setpoint	190 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	10 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed

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## Technical data

### General

Conductor cross section short circuit testing	35 mm <sup>2</sup>
Short-time current	4.2 kA
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 2, bogie mounted
Test frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	3.12 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
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
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
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

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## Technical data

### Dimensions

Width	16 mm
Length	120.2 mm
Height	68.3 mm
Hole diameter	5.5 mm
Drill hole spacing	108 mm
Pitch	16 mm

### Connection data

Note	Please observe the current carrying capacity of the DIN rails.
Connection method	Power-Turn connection
Conductor cross section solid min.	2.5 mm <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>
Conductor cross section AWG min.	12
Conductor cross section AWG max.	2
Conductor cross section flexible min.	2.5 mm <sup>2</sup>
Conductor cross section flexible max.	35 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	12
Max. AWG conductor cross section, flexible	2
Conductor cross section flexible, with ferrule with plastic sleeve min.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	35 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	10 mm <sup>2</sup>
Stripping length	25 mm

### Standards and Regulations

Flammability rating according to UL 94	V0
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### Environmental Product Compliance

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

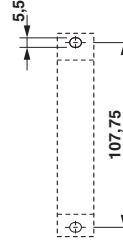
## Drawings

# High-current terminal block - PTPOWER 35-F - 3212078

Circuit diagram



Dimensional drawing



## Approvals

### Approvals

Approvals

CSA / BV / UL Recognized / cUL Recognized / LR / DNV GL / cULus Recognized

Ex Approvals

### Approval details

CSA <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/13631">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/13631</a>		
	B	C
mm <sup>2</sup> /AWG/kcmil	14-2	14-2
Nominal current I <sub>N</sub>	115 A	115 A
Nominal voltage U <sub>N</sub>	600 V	1000 V

BV <http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials40933/A1BV>

UL Recognized <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 60425

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
mm <sup>2</sup> /AWG/kcmil	14-2


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### Approvals

	C
Nominal current IN	115 A
Nominal voltage UN	1000 V

LR <http://www.lr.org/en/15/20030>

DNV GL <https://www.dnvgl.com/TAE00000Z9>

cULus Recognized  <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>