

# PTPOWER 35 BU - High-current terminal block



3212065

<https://www.phoenixcontact.com/au/products/3212065>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



High-current terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: PowerTurn connection, Rated cross section: 35 mm<sup>2</sup>, cross section: 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>, mounting type: NS 35/15, color: blue

## Your advantages

- 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
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The compact design and front connection enable wiring in a confined space

## Commercial data

Item number	3212065
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE2211
Product key	BE2211
Catalog page	Page 135 (C-1-2019)
GTIN	4046356726023
Weight per piece (including packing)	93.13 g
Weight per piece (excluding packing)	83.49 g
Customs tariff number	85369010
Country of origin	PL

# PTPOWER 35 BU - High-current terminal block



3212065

<https://www.phoenixcontact.com/au/products/3212065>

## Technical data

### Product properties

Product type	High current terminal block
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	4.06 W

### Connection data

Number of connections per level	2
Nominal cross section	35 mm <sup>2</sup>
Rated cross section AWG	2
Stripping length	25 mm
Conductor cross section rigid	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Cross section AWG	12 ... 2 (converted acc. to IEC)
Conductor cross section flexible	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	12 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Nominal current	125 A
Maximum load current	125 A (with 35 mm <sup>2</sup> conductor cross section)
Nominal voltage	1000 V
Nominal cross section	35 mm <sup>2</sup>

### Connection cross sections directly pluggable

Conductor cross section rigid	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross section, rigid [AWG]	12 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm <sup>2</sup> ... 35 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

# PTPOWER 35 BU - High-current terminal block



3212065

<https://www.phoenixcontact.com/au/products/3212065>

List of bridges	Plug-in bridge / FBS 2-16 / 3005963
Bridge data	89 A (25 mm <sup>2</sup> )
Ex temperature increase for bridging with bridge	40 K (120 A/35 mm <sup>2</sup> ) 690 V
Rated insulation voltage	660 V
output	(Permanent)

## Ex level General

Rated voltage	690 V
Rated current	109 A
Maximum load current	109 A
Contact resistance	0.16 mΩ

## Ex connection data General

Ferrule length	25 mm
Stripping length	25 mm
Nominal cross section	35 mm <sup>2</sup>
Rated cross section AWG	2
Connection capacity rigid	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connection capacity AWG	12 ... 2
Conductor cross section flexible, with ferrule without plastic sleeve min.	6 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	35 mm <sup>2</sup>

## Dimensions

Width	16 mm
Height	91.6 mm
Depth on NS 35/7,5	69.8 mm
Depth on NS 35/15	77.3 mm

## Material specifications

Color	blue (RAL 5015)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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
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

# PTPOWER 35 BU - High-current terminal block



3212065

<https://www.phoenixcontact.com/au/products/3212065>

## Mechanical properties

### Mechanical data

Open side panel	No
-----------------	----

## 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 %

## Mounting

Mounting type	NS 35/15
---------------	----------

# PTPOWER 35 BU - High-current terminal block


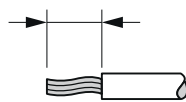
3212065

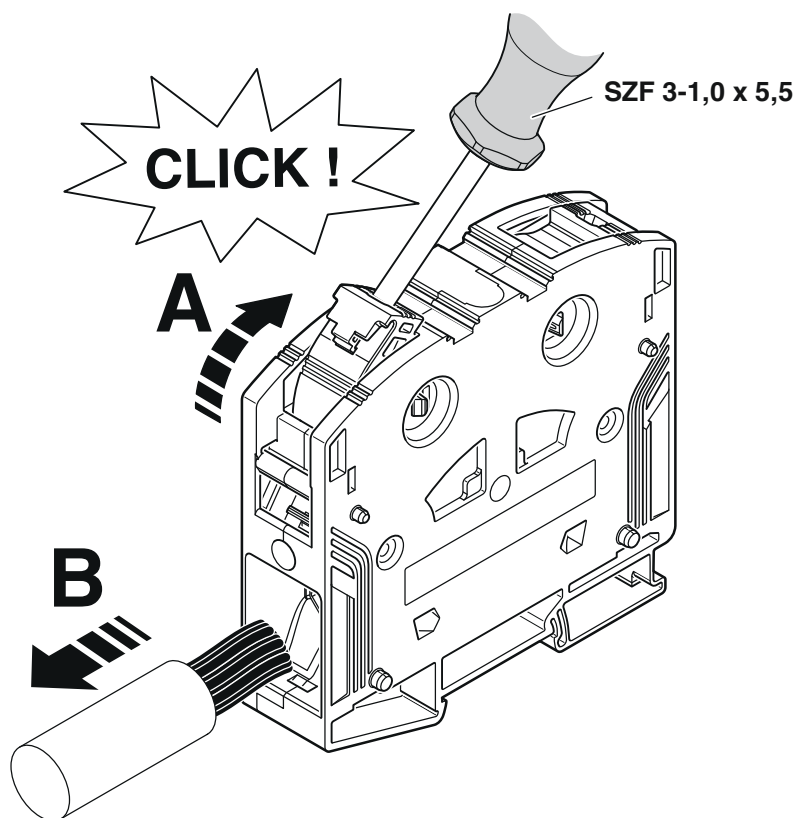
<https://www.phoenixcontact.com/au/products/3212065>

## 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



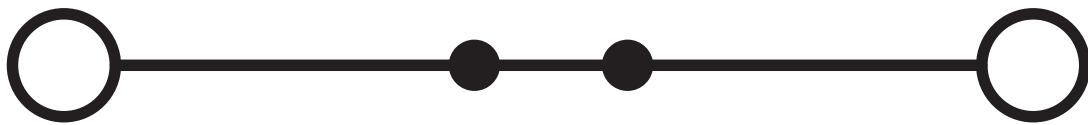
# PPOWER 35 BU - High-current terminal block



3212065

<https://www.phoenixcontact.com/au/products/3212065>

Circuit diagram



# PTPOWER 35 BU - High-current terminal block




3212065

<https://www.phoenixcontact.com/au/products/3212065>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/3212065>

 **CSA**  
Approval ID: 13631

 **EAC**  
Approval ID: RU C-DE.BL08.B.00644

**DNV**  
Approval ID: TAE00000Z9


 **CSA**  
Approval ID: 13631

 **cUL Recognized**  
Approval ID: E60425

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group C	1000 V	115 A	14 - 2	-

 **UL Recognized**  
Approval ID: E60425

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group C	1000 V	115 A	14 - 2	-
Use group E	1000 V	115 A	14 - 2	-

 **CCC**  
Approval ID: 2020322313000630

 **UKCA-EX**  
Approval ID: CML 22UKEX1227U

 **IECEX**  
Approval ID: IECEXSEV14.0013U

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
--	-----------------------	-----------------------	-------------------	-----------------------------


# PTPOWER 35 BU - High-current terminal block




3212065

<https://www.phoenixcontact.com/au/products/3212065>

Only rigid conductors	690 V	109 A	-	2.5 - 35
multi-stranded with ferrule	690 V	109 A	-	6 - 35

<div><div></div><div><div>ATEX</div><div>Approval ID: SEV14ATEX0156U</div></div></div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Only rigid conductors	690 V	109 A	-	2.5 - 35
multi-stranded with ferrule	690 V	109 A	-	6 - 35

<div><div></div><div><div>EAC Ex</div><div>Approval ID: KZ 7500525010101950</div></div></div>				
--	--	--	--	--



# PTPOWER 35 BU - High-current terminal block



3212065

<https://www.phoenixcontact.com/au/products/3212065>

## Classifications

### ECLASS

ECLASS-13.0	27250101
-------------	----------

### ETIM

ETIM 9.0	EC000897
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# PTPOWER 35 BU - High-current terminal block



3212065

<https://www.phoenixcontact.com/au/products/3212065>

## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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%

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd  
Unit 7, 2-8 South Street  
Rydalmere NSW 2116  
1300 786 411  
[customerservice@phoenixcontact.com.au](mailto:customerservice@phoenixcontact.com.au)