

PTPOWER 35-3L/N/FE - High-current terminal block



3212071

<https://www.phoenixcontact.com/pc/products/3212071>

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High-current terminal block, Blocked, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 10, number of positions: 5, connection method: PowerTurn connection, Rated cross section: 35 mm², cross section: 2.5 mm² - 35 mm², mounting type: NS 35/15, color: gray/blue/black-yellow

Your advantages

- Quick and easy connection is now also possible for large conductors with the high-current terminal block
- 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
- 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

Commercial data

Item number	3212071
Packing unit	2 pc
Minimum order quantity	2 pc
Product key	BE2211
Catalog page	Page 135 (C-1-2019)
GTIN	4046356869775
Weight per piece (including packing)	443.85 g
Weight per piece (excluding packing)	421.55 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	High current terminal block
Number of positions	5
Number of connections	10
Number of rows	1
Potentials	5

Data management status

Article revision	07
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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	10
Nominal cross section	35 mm ²
Rated cross section AWG	2
Stripping length	25 mm
Conductor cross section rigid	2.5 mm ² ... 35 mm ²
Cross section AWG	12 ... 2 (converted acc. to IEC)
Conductor cross section flexible	2.5 mm ² ... 35 mm ²
Conductor cross section, flexible [AWG]	12 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm ² ... 35 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm ² ... 35 mm ²
Nominal current	125 A
Maximum load current	125 A (with 35 mm ² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	35 mm ²

Connection cross sections directly pluggable

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

Ex data

Rated data (ATEX/IECEx)

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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	Plug-in bridge / FBS 2-16 / 3005963
Bridge data	89 A / 25 mm²
Ex temperature increase	40 K (120 A/35 mm²)
Rated voltage	690 V
for bridging with bridge	690 V
Rated insulation voltage	660 V
output	(Permanent)

Ex level General

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 mm²
Rated cross section AWG	2
Connection capacity rigid	2.5 mm² ... 35 mm²
Connection capacity AWG	12 ... 2
Conductor cross section flexible, with ferrule without plastic sleeve min.	6 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	35 mm²

Dimensions

Width	80 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	multicolored
	gray (RAL 7042)
	blue (RAL 5015)
	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
Relative insulation material temperature index (Elec., UL 746 B)	130 °C

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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

Mechanical properties

Mechanical data

Open side panel	No
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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, no longer than 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
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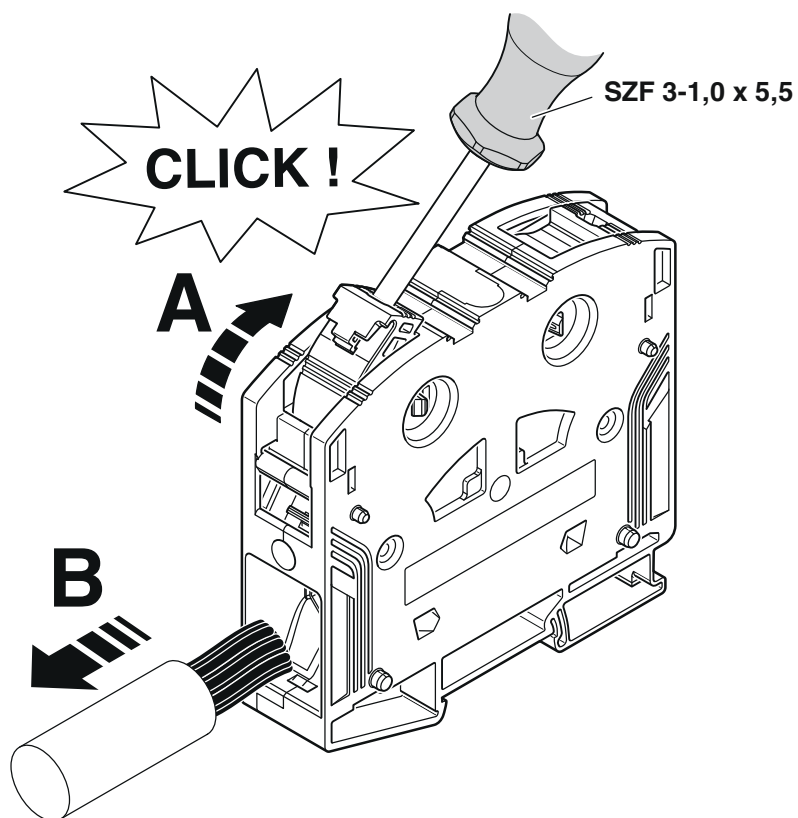
Drawings

Schematic diagram

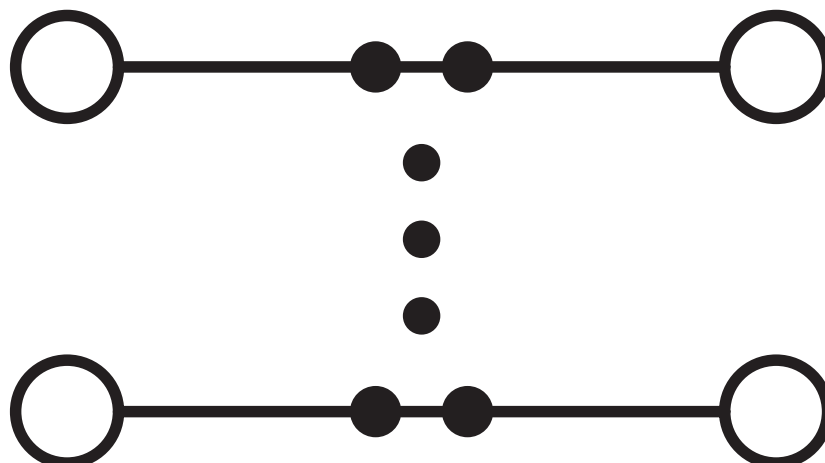
PTPOWER



AGK 10-PTPOWER	0,5 mm ² ... 16 mm ²	18 mm
PTPOWER 35	2,5 mm ² ... 35 mm ²	25 mm
PTPOWER 50	10 mm ² ... 50 mm ²	32 mm
PTPOWER 95	25 mm ² ... 95 mm ²	40 mm
PTPOWER 185	95 mm ² ... 185 mm ²	40 mm



Circuit diagram



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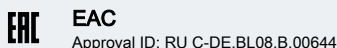
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Approvals

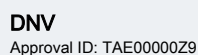
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CSA
Approval ID: 13631



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



DNV
Approval ID: TAE0000029



cULus Recognized
Approval ID: E60425

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



CSA
Approval ID: 13631

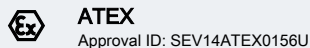


UKCA-EX
Approval ID: CML 22UKEX1227U



IECEx
Approval ID: IECExSEV14.0013U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only rigid conductors	690 V	109 A	-	2.5 - 35
multi-stranded with ferrule	690 V	109 A	-	6 - 35



ATEX
Approval ID: SEV14ATEX0156U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only rigid conductors	690 V	109 A	-	2.5 - 35
multi-stranded with ferrule	690 V	109 A	-	6 - 35

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

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
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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