

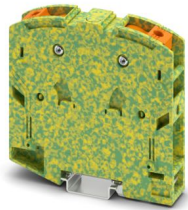
PTPOWER 50-PE - Protective conductor terminal block



3260052

<https://www.phoenixcontact.com/us/products/3260052>

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Protective conductor terminal block, number of connections: 2, number of positions: 1, connection method: PowerTurn connection, 1 level, cross section: 10 mm² - 70 mm², mounting type: NS 35/15, color: green-yellow

Your advantages

- Time-saving conductor connection thanks to tool-free direct-connection technology
- Vibration-resistant and maintenance-free conductor connection
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Meet the requirements of DIN EN 60947-7-2 or IEC 60947-7-2 for protective conductor connections
- High level of safety thanks to the low-resistance connection to the ground potential via the top-hat rail
- Direct contacting with the DIN rail enables fast, error-free grounding without additional wiring effort.

Commercial data

Item number	3260052
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE22
Product key	BE2221
GTIN	4046356998758
Weight per piece (including packing)	201.4 g
Weight per piece (excluding packing)	185.3 g
Customs tariff number	85369010
Country of origin	TR

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Technical data

Product properties

Product type	Ground terminal block
Number of positions	1
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	4.73 W

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	50 mm ²
Rated cross section AWG	2/0

1 level

Connection method	PowerTurn connection
Note	Use an appropriate NS 35... copper or aluminum DIN rail for connection cross sections > 35 mm ² /2 AWG.
Stripping length	30 mm ... 32 mm
Internal cylindrical gage	A10
Connection in acc. with standard	IEC 60947-7-2
Conductor cross-section rigid	10 mm ² ... 70 mm ²
Cross section AWG	6 ... 2/0 (converted acc. to IEC)
Conductor cross-section flexible	10 mm ² ... 70 mm ²
Conductor cross-section, flexible [AWG]	6 ... 2/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm ² ... 50 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	10 mm ² ... 50 mm ²
Cross-section with insertion bridge, rigid	10 mm ² ... 50 mm ²
Cross-section with insertion bridge, flexible	10 mm ² ... 50 mm ²
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	10 mm ² (50 mm ²)
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	10 mm ² ... 50 mm ²

1 level Connection cross sections directly pluggable

Conductor cross-section rigid	10 mm ² ... 70 mm ²
Conductor cross-section, rigid [AWG]	8 ... 2/0 (converted acc. to IEC)

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Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm ² ... 50 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	10 mm ² ... 50 mm ²

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
output	(Permanent)

Ex level General

Contact resistance	0.16 mΩ
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Ex connection data General

Ferrule length	30 mm ... 32 mm
Stripping length	30 mm
Nominal cross section	50 mm ²
Rated cross section AWG	1/0
Connection capacity rigid	10 mm ² ... 70 mm ²
Connection capacity AWG	8 ... 2/0
Conductor cross-section flexible, with ferrule without plastic sleeve min.	16 mm ²
Conductor cross-section flexible, with ferrule without plastic sleeve max.	50 mm ²

Dimensions

Width	20 mm
Height	101 mm
Depth on NS 35/15	105 mm

Material specifications

Color	green-yellow
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

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Mechanical properties

Mechanical data

Open side panel	No
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Environmental and real-life conditions

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

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 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-2
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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



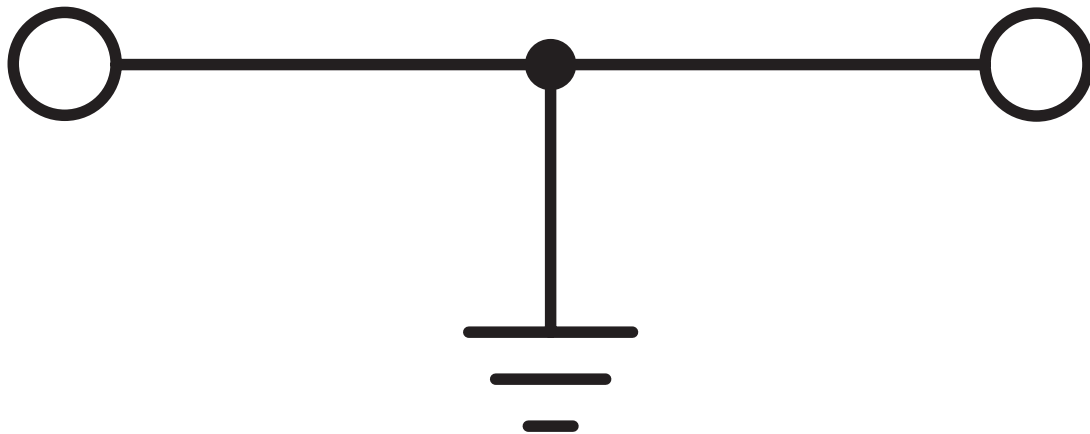
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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3260052>


 cUL Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
C	-	-	8 - 1/0	-


 UL Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
E	-	-	8 - 1/0	-

DNV Approval ID: TAE00000Z9				
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 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	-	-	8 - 1/0	-
C	-	-	8 - 1/0	-

 CCC Approval ID: 2020322313000630				
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 UKCA-EX Approval ID: CML 22UKEX1227U				
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 ATEX Approval ID: SEV14ATEX0156U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine	-	-	-	-
Only rigid conductors	-	-	-	10 - 70
multi-stranded with ferrule	-	-	-	16 - 50


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 IECEX Approval ID: IECEXSEV14.0013U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only rigid conductors	-	-	-	10 - 70
multi-stranded with ferrule	-	-	-	16 - 50

 EAC Ex Approval ID: KZ 7500525010101950				
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Classifications

ECLASS

ECLASS-13.0	27250103
ECLASS-15.0	27250103

ETIM

ETIM 10.0	EC000901
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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
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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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EF3.1 Climate Change

CO2e kg	3.428 kg CO2e
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