

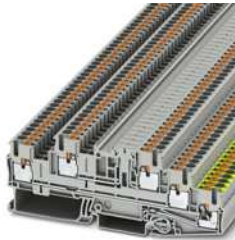
# Installation ground terminal block - PTB 2,5-PE/L/L



3210547

<https://www.phoenixcontact.com/de/produkte/3210547>

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.



Installation ground terminal block, nom. voltage: 400 V, nominal current: 20 A, Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Double function shafts on all levels

## Commercial Data

Item number	3210547
Packing unit	50 pc
Minimum order quantity	1 pc
Sales Key	A1 - Reihenklemmen
Product Key	BE2253
Catalog Page	Page 96 (C-1-2019)
GTIN	4046356701334
Weight per Piece (including packing)	21,941 g
Weight per Piece (excluding packing)	21,941 g
Customs tariff number	85369010
Country of origin	PL

# Installation ground terminal block - PTB 2,5-PE/L/L



3210547

<https://www.phoenixcontact.com/de/produkte/3210547>

## Technical Data

### Product properties

Product type	Ground terminal block
Number of connections	5
Number of rows	3
Potentials	2

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.77 W

### Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	2.5 mm <sup>2</sup>

#### Level 1+2

Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Conductor cross section solid	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	26 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	26 ... 12 (converted acc. to IEC)
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup>
Nominal current	20 A (with a 2.5 mm <sup>2</sup> conductor cross section)
Maximum load current	24 A (with 4 mm <sup>2</sup> conductor cross section and 3-pos. terminal block)
Nominal voltage	400 V (phase conductor/phase conductor) 250 V (phase conductor/PE)
Nominal cross section	2.5 mm <sup>2</sup>

#### Level 3

Stripping length	8 mm ... 10 mm
Conductor cross section solid	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	26 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>

# Installation ground terminal block - PTB 2,5-PE/L/L



3210547

<https://www.phoenixcontact.com/de/produkte/3210547>

Conductor cross section, flexible [AWG]	26 ... 12 (converted acc. to IEC)
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup>
Nominal current	16 A (with a 2.5 mm <sup>2</sup> conductor cross section)
Maximum load current	16 A (with 4 mm <sup>2</sup> conductor cross section)
Nominal voltage	250 V
Nominal cross section	2.5 mm <sup>2</sup>

## Level 1+2 Connection cross sections directly pluggable

Conductor cross section solid	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

## Level 3 Connection cross sections directly pluggable

Conductor cross section solid	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

## Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height NS 35/15	49.8 mm
Height NS 35/7,5	42.3 mm
Length	118 mm

## Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed

# Installation ground terminal block - PTB 2,5-PE/L/L



3210547

<https://www.phoenixcontact.com/de/produkte/3210547>

Smoke gas toxicity NFPA 130 (SMP 800C)	passed
----------------------------------------	--------

## Electrical tests

### Surge voltage test

Test voltage setpoint	7.3 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
Short-time withstand current 2.5 mm <sup>2</sup>	0.3 kA
	0.18 kA
Short-time withstand current 4 mm <sup>2</sup>	0.48 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
-----------------	-----

## Mechanical tests

### Mechanical strength

Result	Test passed
--------	-------------

### Attachment on the carrier

DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed

### Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm <sup>2</sup> / 0.2 kg
	2.5 mm <sup>2</sup> / 0.7 kg
	4 mm <sup>2</sup> / 0.9 kg
Result	Test passed

## Environmental and real-life conditions

### Aging

Temperature cycles	192
Result	Test passed

3210547

<https://www.phoenixcontact.com/de/produkte/3210547>

## Needle-flame test

Time of exposure	30 s
Result	Test passed

## Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

## 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

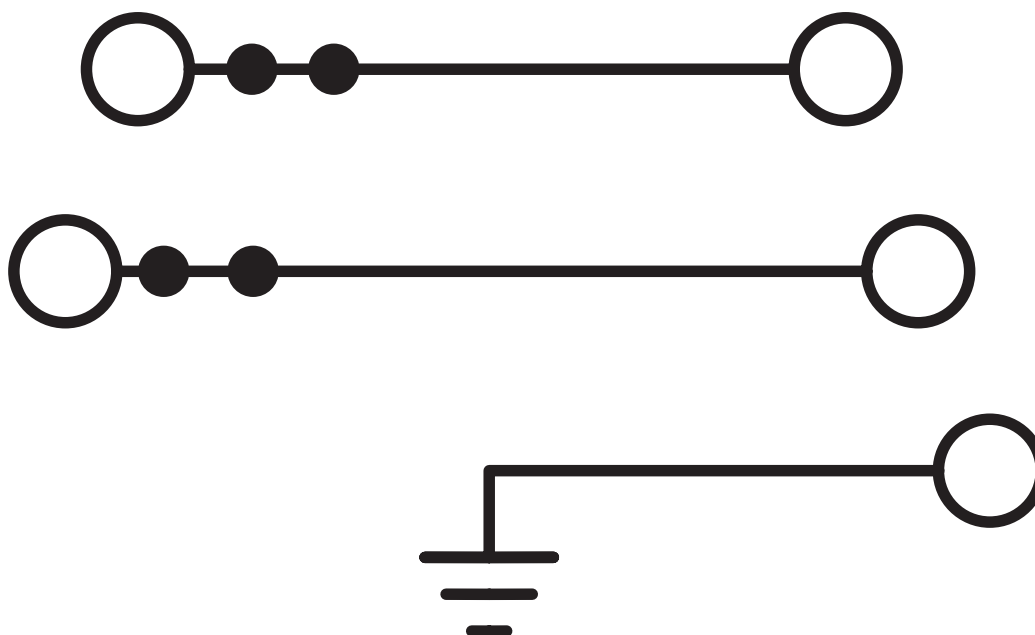
Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

## Mounting

Mounting type	NS 35/7,5
	NS 35/15

## Drawings

Circuit diagram



# Installation ground terminal block - PTB 2,5-PE/L/L



3210547

<https://www.phoenixcontact.com/de/produkte/3210547>

## Approvals



**EAC**

Approval ID: RU C-DE.AI30.B.01102



**EAC**

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

# Installation ground terminal block - PTB 2,5-PE/L/L



3210547

<https://www.phoenixcontact.com/de/produkte/3210547>

## Classifications

### ECLASS

ECLASS-9.0	27141125
ECLASS-10.0.1	27141125
ECLASS-11.0	27141125
ECLASS-12.0	27141125

### ETIM

ETIM 8.0	EC001329
----------	----------

### UNSPSC

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

# Installation ground terminal block - PTB 2,5-PE/L/L



3210547

<https://www.phoenixcontact.com/de/produkte/3210547>

## Environmental Product Compliance

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

Phoenix Contact 2023 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT Deutschland GmbH  
Flachmarktstraße 8  
D-32825 Blomberg  
+49 52 35/3-1 20 00  
[info@phoenixcontact.de](mailto:info@phoenixcontact.de)