

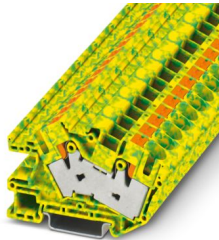
# PTI 16/S-PE - Installation ground terminal block



3214024

<https://www.phoenixcontact.com/us/products/3214024>

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: 500 V, nominal current: 76 A, Push-in connection, 1 level, Rated cross section: 16 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

## Your advantages

- Compatible with all Phoenix Contact installation terminal blocks
- As well as the testing facility in the function shaft, each terminal point has a test contact
- Each terminal point can be clearly labeled and easily recognized in every terminal block mounting position
- Compact design tailored to distribution boards
- The new Push-in connection technology enables easy, direct insertion of solid and stranded conductors with ferrules with a cross section of 0.34 mm<sup>2</sup> or higher

## Commercial data

Item number	3214024
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2221
Catalog page	Page 126 (C-1-2019)
GTIN	4046356702232
Weight per piece (including packing)	35.7 g
Weight per piece (excluding packing)	34.211 g
Customs tariff number	85369010
Country of origin	PL

# PTI 16/S-PE - Installation ground terminal block



3214024

<https://www.phoenixcontact.com/us/products/3214024>

## Technical data

### Product properties

Product type	Ground terminal block
Number of connections	2
Number of rows	1
Potentials	2

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	2.43 W

### Connection data

PEN function	yes
Grounding foot	Yes
Number of connections per level	2
Nominal cross section	16 mm <sup>2</sup>

#### 1 level

Stripping length	18 mm
Internal cylindrical gage	A6
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
Conductor cross section rigid	0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Cross section AWG	24 ... 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	20 ... 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Nominal current	76 A
Nominal voltage	500 V
Nominal cross section	16 mm <sup>2</sup>

#### 1 level Connection cross sections directly pluggable

Conductor cross section rigid	1 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	4 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>

### Dimensions

Width	10.2 mm
End cover width	2.2 mm
Height	77.7 mm

# PTI 16/S-PE - Installation ground terminal block



3214024

<https://www.phoenixcontact.com/us/products/3214024>

Depth	49.6 mm
Depth on NS 35/7,5	51.1 mm
Depth on NS 35/15	58.6 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
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
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### 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.)

# PTI 16/S-PE - Installation ground terminal block



3214024

<https://www.phoenixcontact.com/us/products/3214024>

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
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
----------------------------------	-----------------------------

## Mounting

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

# PTI 16/S-PE - Installation ground terminal block



3214024

<https://www.phoenixcontact.com/us/products/3214024>

## Classifications

### ECLASS

ECLASS-11.0	27141125
ECLASS-12.0	27141125
ECLASS-13.0	27250110

### ETIM

ETIM 9.0	EC001329
----------	----------

### UNSPSC

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

# PTI 16/S-PE - Installation ground terminal block



3214024

<https://www.phoenixcontact.com/us/products/3214024>

## Environmental product compliance

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

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)