

PT 16 N-PE - Ground terminal



3212147
<https://www.phoenixcontact.com/ca/products/3212147>

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.



Ground terminal, number of connections: 2, connection method: Push-in connection, Rated cross section: 16 mm², cross section: 0.5 mm² - 25 mm², mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Your advantages

- 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
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- Tested for railway applications

Commercial data

Item number	3212147
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2221
Catalog page	Page 125 (C-1-2019)
GTIN	4046356494847
Weight per piece (including packing)	42.958 g
Weight per piece (excluding packing)	42.958 g
Customs tariff number	85369010
Country of origin	PL

PT 16 N-PE - Ground terminal



3212147

<https://www.phoenixcontact.com/ca/products/3212147>

Technical data

Product properties

Product type	Ground terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	2
Number of rows	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	0 W

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	16 mm ²
Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	18 mm ... 20 mm
Internal cylindrical gage	A7
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	0.5 mm ² ... 25 mm ²
Cross section AWG	20 ... 4 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² ... 25 mm ²
Conductor cross section, flexible [AWG]	20 ... 4 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 16 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² ... 16 mm ²
Nominal cross section	16 mm ²

Connection cross sections directly pluggable

Conductor cross section rigid	2.5 mm ² ... 25 mm ²
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm ² ... 16 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm ² ... 16 mm ²

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
	3212060 D-PT 16 N

PT 16 N-PE - Ground terminal



3212147

<https://www.phoenixcontact.com/ca/products/3212147>

Ex-certified accessories	1206612 SZF 3-1,0X5,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
output	(Permanent)

Ex connection data General

Nominal cross section	16 mm ²
Rated cross section AWG	6
Connection capacity rigid	0.5 mm ² ... 25 mm ²
Connection capacity AWG	20 ... 4
Connection capacity flexible	0.5 mm ² ... 16 mm ²
Connection capacity AWG	20 ... 6

Dimensions

Width	12.2 mm
End cover width	2.2 mm
Height	75.4 mm
Depth on NS 35/7,5	52.6 mm
Depth on NS 35/15	60.1 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

PT 16 N-PE - Ground terminal



3212147

<https://www.phoenixcontact.com/ca/products/3212147>

Specification	DIN EN 50155 (VDE 0115-200):2018-05
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

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.)

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
----------------------------------	---------------

Mounting

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

PT 16 N-PE - Ground terminal

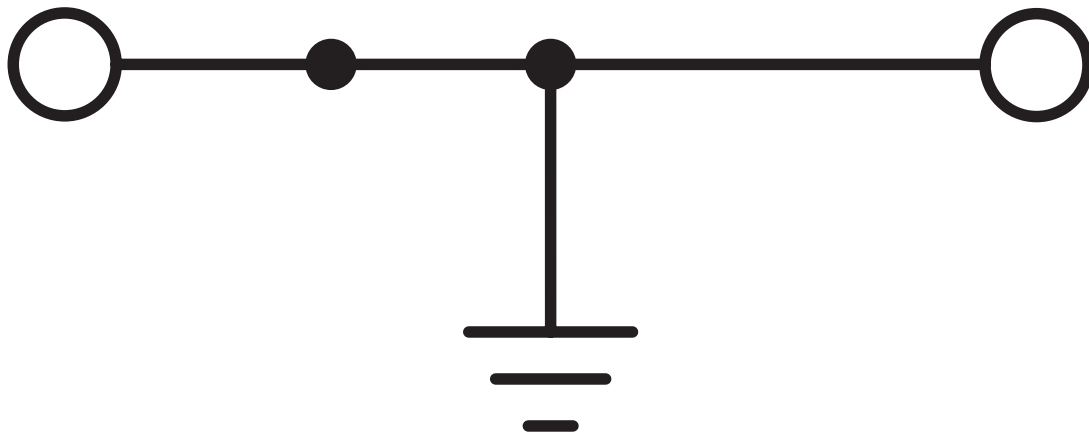


3212147

<https://www.phoenixcontact.com/ca/products/3212147>

Drawings

Circuit diagram



PT 16 N-PE - Ground terminal



3212147

<https://www.phoenixcontact.com/ca/products/3212147>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/ca/products/3212147>

DNV

Approval ID: TAE000010T



CSA

Approval ID: 2030668

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	-	-	20 - 4	-
Use group C	-	-	20 - 4	-



IECEE CB Scheme

Approval ID: DE1-63053

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	-	0.5 - 16



EAC

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



cULus Recognized

Approval ID: E60425



LR

Approval ID: LR2371832TA



BV

Approval ID: 37796/B1 BV



VDE Zeichengenehmigung

Approval ID: 40040916

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	-	0.5 - 16



PRS

Approval ID: TE/2107/880590/21

PT 16 N-PE - Ground terminal



3212147

<https://www.phoenixcontact.com/ca/products/3212147>



cULus Recognized
Approval ID: E60425



cULus Recognized
Approval ID: E60425

 cUL Recognized Approval ID: E192998				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	20 - 4	-



EAC Ex
Approval ID: RU C-DE:AB72.B.02351



IECEx
Approval ID: IECEx SEV13.0005U

 UL Recognized Approval ID: E192998				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	20 - 4	-



ATEX
Approval ID: SEV13ATEX0159U



CCC
Approval ID: 2020322313000631



UKCA-EX
Approval ID: CML 22UKEX1224U



IECEx
Approval ID: IECEx SEV13.0005U



ATEX

PT 16 N-PE - Ground terminal



3212147

<https://www.phoenixcontact.com/ca/products/3212147>

Approval ID: SEV13ATEX0159U

cULus Recognized

PT 16 N-PE - Ground terminal



3212147

<https://www.phoenixcontact.com/ca/products/3212147>

Classifications

ECLASS

ECLASS-11.0	27141141
ECLASS-13.0	27250103

ETIM

ETIM 9.0	EC000901
----------	----------

UNSPSC

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

PT 16 N-PE - Ground terminal



3212147

<https://www.phoenixcontact.com/ca/products/3212147>

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%
EF3.0 Climate Change	
CO2e kg	0.279 kg CO2e

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

PHOENIX CONTACT Ltd
8240 Parkhill Drive
Milton, Ontario L9T 5V7
1-800-890-2820
cdinfo@phoenixcontact.ca