PHŒNIX CONTACT

Ground modular terminal block - PT 16 N-PE - 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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Ground modular terminal block, Connection method: Push-in connection, Cross section: 0.5 mm² - 25 mm², AWG: 20 - 4, Width: 12.2 mm, Color: green-yellow, Mounting type: NS 35/7,5, NS 35/15

Why buy this product

☑ 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

☑ The compact design and front connection enable wiring in a confined space

☑ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection

☑ Tested for railway applications

RoHS

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
Weight per Piece (excluding packing)	47.600 g
Custom tariff number	85369010
Country of origin	Poland

Technical data

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	16 mm²
Color	green-yellow
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry

PHŒNIX CONTACT

Ground modular terminal block - PT 16 N-PE - 3212147

Technical data

General

	Machine building
	Plant engineering
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 2, bogie mounted
Test frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 $(m/s^2)^2$/Hz
Acceleration	3.12 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg

09/02/2016   Page 2 / 17

Ground modular terminal block - PT 16 N-PE - 3212147

Technical data

General

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

Dimensions

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

Connection data

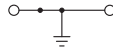| Note	Please observe the current carrying capacity of the DIN rails.
Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	25 mm²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	4
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	16 mm²
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	6
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	16 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	16 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	1.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	4 mm²
Stripping length	18 mm
Internal cylindrical gage	A7

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-2
Flammability rating according to UL 94	V0

Drawings

09/02/2016   Page 3 / 17

Ground modular terminal block - PT 16 N-PE - 3212147

Circuit diagram

Classifications

eCl@ss

eCl@ss 4.0	27141118
eCl@ss 4.1	27141118
eCl@ss 5.0	27141118
eCl@ss 5.1	27141118
eCl@ss 6.0	27141141
eCl@ss 7.0	27141141
eCl@ss 8.0	27141141
eCl@ss 9.0	27141141

ETIM

ETIM 2.0	EC000901
ETIM 3.0	EC000901
ETIM 4.0	EC000901
ETIM 5.0	EC000901

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

VDE Zeichengenehmigung / IECEE CB Scheme / UL Recognized / cUL Recognized / EAC / CSA / EAC / BV / LR / DNV GL / PRS / cULus Recognized

---

Ex Approvals

ATEX / IECEx

Approval details

09/02/2016   Page 4 / 17

PHŒNIX CONTACT

Ground modular terminal block - PT 16 N-PE - 3212147

Approvals

VDE Zeichengenehmigung http://www.vde.de 40040916

mm²/AWG/kcmil	0.5-16

IECEE CB Scheme http://www.iecee.org/ DE1-54728

mm²/AWG/kcmil	0.5-16

UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425

	B	C
mm²/AWG/kcmil	20-4	20-4
Nominal voltage UN	600 V	600 V

cUL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425

	B	C
mm²/AWG/kcmil	20-4	20-4
Nominal voltage UN	600 V	600 V

EAC   EAC-Zulassung

CSA http://www.csagroup.org/us/en/services/testing-and-certification/certified-product-listing 13631

	B	C
mm²/AWG/kcmil	20-4	20-4

EAC   7500651.22.01.00246

BV http://www.veristar.com/wps/portal/!ut/p/_s.7_0_A/7_0_RIM 37796/A2 BV

PHŒNIX CONTACT

Ground modular terminal block - PT 16 N-PE - 3212147

Approvals

LR http://www.lr.org/en 12/20038 (E2)

DNV GL https://www.dnvgl.com/ TAE000010T

PRS http://www.prs.pl/ TE/2107/880590/16

cULus Recognized c ꀠ us http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

Accessories

Accessories

DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681

DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119

DIN rail 35 mm (NS 35)

PHŒNIX CONTACT

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

DIN rail - NS 35/ 7,5 WH UNPERF 2000MM - 1204122

DIN rail 35 mm (NS 35)

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704

DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

---

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421

DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

---

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434

DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762

DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

End cap - NS 35/ 7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730

DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714

DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602

DIN rail 35 mm (NS 35)

DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135

DIN rail 35 mm (NS 35)

09/02/2016   Page 8 / 17

PHŒNIX CONTACT

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756

DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599

DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586

DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895

DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

End cap - NS 35/15 CAP - 1206573

DIN rail end piece, for DIN rail NS 35/15

PHŒNIX CONTACT

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798

DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

Documentation

Mounting material - PT-IL - 3208090

Operating decal for the push-in Technology

End block

End clamp - E/UK - 1201442

End clamp, Width: 9.5 mm, Height: 35.3 mm, Length: 50.5 mm, Color: gray

End clamp - E/UK 1 - 1201413

End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

End clamp - CLIPFIX 35 - 3022218

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

End clamp - CLIPFIX 35-5 - 3022276

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

---

End clamp - E/NS 35 N - 0800886

End clamp, width: 9.5 mm, color: gray

End cover

End cover - D-PT 16 N - 3212060

End cover, Length: 75.4 mm, Width: 2.2 mm, Color: gray

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, Color: white

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, Color: red

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, Color: blue

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, Color: yellow

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, Color: green

Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, Color: gray

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, Color: black

Jumper

Plug-in bridge - FBS 2-12 - 3005950

Plug-in bridge, Pitch: 12 mm, Number of positions: 2, Color: red

Labeled terminal marker

Zack Marker strip, flat - ZBF 12 CUS - 0825018

Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 5.15 x 12.15 mm

Marker for terminal blocks - UC-TMF 12 CUS - 0824670

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 11.45 x 5.1 mm

Marker for terminal blocks - UCT-TMF 12 CUS - 0829686

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 11.2 x 4.7 mm

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

Zack marker strip - ZB 12 CUS - 0824942

Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 10.5 x 12.15 mm

---

Marker for terminal blocks - ZB 12,LGS:L1-N,PE - 0812146

Marker for terminal blocks, Strip, white, labeled, Printed horizontally: L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 10.5 x 12.15 mm

---

Marker for terminal blocks - UC-TM 12 CUS - 0824613

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm

---

Marker for terminal blocks - UCT-TM 12 CUS - 0829630

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 10.8 x 9.6 mm

---

Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040

Multilingual software for convenient configuration of Phoenix Contact products on standard DIN rails.

09/02/2016   Page 14 / 17

PHŒNIX CONTACT

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

Software - CLIP-PROJECT PROFESSIONAL - 5146053

Multilingual software for terminal strip configuration. A marking module enables the professional marking of markers and labels for identifying terminal blocks, conductors and cables, and devices.

Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

---

Screwdriver - SZF 3-1,0X5,5 - 1206612

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

---

Terminal marking

Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 5.15 x 12.15 mm

---

Marker for terminal blocks - UC-TMF 12 - 0819233

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 11.45 x 5.1 mm

PHŒNIX CONTACT

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

Marker for terminal blocks - UCT-TMF 12 - 0829214

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, THERMOMARK PRIME, Mounting type: Snap into flat marker groove, for terminal block width: 12 mm, Lettering field: 11.2 x 4.7 mm

---

Zack marker strip - ZB 12:UNPRINTED - 0812120

Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 12 x 10.5 mm

---

Marker for terminal blocks - UC-TM 12 - 0819194

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm

---

Marker for terminal blocks - UCT-TM 12 - 0829144

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, THERMOMARK PRIME, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 10.8 x 9.6 mm

---

Marker for terminal blocks - TMT (EX9,5)R - 0828295

Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X, Mounting type: Snap into universal marker groove, Snap into tall marker groove, Lettering field: 9.5 x 50000 mm

---

Ground modular terminal block - PT 16 N-PE - 3212147

Accessories

Marker for terminal blocks - US-TM 100 - 0829255

Marker for terminal blocks, Card, white, unlabeled, can be labeled with: THERMOMARK PRIME, THERMOMARK CARD, Mounting type: Snap into universal marker groove, Lettering field: 104 x 9.8 mm

Test plug terminal block

Test plugs - MPS-MT - 0201744

Test plugs, Color: silver

Phoenix Contact 2016 © - all rights reserved
http://www.phoenixcontact.com

单击下面可查看定价，库存，交付和生命周期等信息

>>Phoenix Contact(菲尼克斯)