

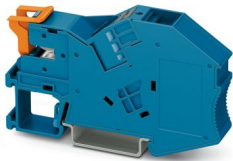
PTI 16-NLS-FI BU - Installation terminal block



1030131

<https://www.phoenixcontact.com/us/products/1030131>

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 terminal block, with end bracket function, nom. voltage: 1000 V, nominal current: 70 A, Push-in connection, 1 level, Rated cross section: 16 mm², cross section: 0.5 mm² - 25 mm², mounting type: NS 35/7,5, NS 35/15, color: blue

Commercial data

Item number	1030131
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE22
Product key	BE2252
GTIN	4055626532479
Weight per piece (including packing)	71.577 g
Weight per piece (excluding packing)	31.7 g
Customs tariff number	85369010
Country of origin	PL

PTI 16-NLS-FI BU - Installation terminal block



1030131

<https://www.phoenixcontact.com/us/products/1030131>

Technical data

Notes

Note on application	with end bracket function
---------------------	---------------------------

Product properties

Product type	Installation terminal block
Number of connections	1
Number of rows	1
Potentials	1

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
Current carrying capacity of the neutral busbar	140 A

Connection data

Number of connections per level	1
Nominal cross section	16 mm ²

1 level

Connection method	Push-in connection
Stripping length	18 mm ... 20 mm
Internal cylindrical gage	A7
Connection in acc. with standard	IEC 60947-7-1
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 ... 16 mm ²
Conductor cross-section, flexible [AWG]	20 ... 6 (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
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm ² ... 4 mm ²
Nominal current	70 A (for 16 mm ² conductor cross-section)
Maximum load current	76 A
Nominal voltage	1000 V
Nominal cross section	16 mm ²

1 level 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

PTI 16-NLS-FI BU - Installation terminal block



1030131

<https://www.phoenixcontact.com/us/products/1030131>

Flexible conductor cross-section (ferrule with plastic sleeve)	2.5 mm ² ... 16 mm ²
--	--

Dimensions

Width	12.2 mm
Height	81.9 mm
Depth	46.8 mm
Depth on NS 35/7,5	48.5 mm
Depth on NS 35/15	56 mm

Material specifications

Color	blue (RAL 5015)
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

Electrical tests

Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed
Short-time withstand current 16 mm ²	1.96 kA
Short-time withstand current 25 mm ²	3 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
-----------------	----

Mechanical tests

PTI 16-NLS-FI BU - Installation terminal block



1030131

<https://www.phoenixcontact.com/us/products/1030131>

Mechanical strength

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

Attachment on the carrier

DIN rail/fixing support	NS 35
Test force setpoint	5 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.5 mm ² / 0.3 kg
	16 mm ² / 2.9 kg
	25 mm ² / 4.5 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s ²) ² /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 ... 110 °C (Operating temperature range incl. self-heating;
---------------------------------	--

PTI 16-NLS-FI BU - Installation terminal block



1030131

<https://www.phoenixcontact.com/us/products/1030131>

	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 60947-7-1
----------------------------------	---------------

Mounting

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

PTI 16-NLS-FI BU - Installation terminal block



1030131

<https://www.phoenixcontact.com/us/products/1030131>

Drawings

Circuit diagram



PTI 16-NLS-FI BU - Installation terminal block



1030131

<https://www.phoenixcontact.com/us/products/1030131>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1030131>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	600 V	70 A	20 - 4	-
C	600 V	70 A	20 - 4	-

 IECEE CB Scheme Approval ID: DE1-62997				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine	1000 V	70 A	-	0.5 - 16

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

 VDE Zeichengenehmigung Approval ID: 40050357				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine	1000 V	70 A	-	0.5 - 16

 cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B	600 V	70 A	20 - 4	-
C	600 V	70 A	20 - 4	-
F	1000 V	70 A	20 - 4	-

 EAC Approval ID: KZ7500651131219505				
---	--	--	--	--

PTI 16-NLS-FI BU - Installation terminal block



1030131

<https://www.phoenixcontact.com/us/products/1030131>

Classifications

ECLASS

ECLASS-13.0	27250110
ECLASS-15.0	27250110

ETIM

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

UNSPSC

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

PTI 16-NLS-FI BU - Installation terminal block



1030131
<https://www.phoenixcontact.com/us/products/1030131>

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%

Phoenix Contact 2025 © - 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