

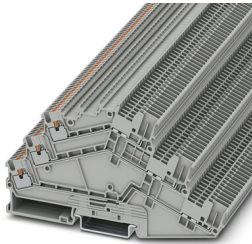
PTS 1,5/S-3L/3P - Multi-level terminal block



1027881

<https://www.phoenixcontact.com/gb/products/1027881>

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Multi-level terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 15 A, connection method: Push-in / plug connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², mounting type: NS 35/7,5, color: gray

Your advantages

- 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

Commercial Data

Item number	1027881
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	BE2241
Product Key	BE2241
Catalog Page	Page 279 (C-1-2019)
GTIN	4055626522951
Weight per Piece (including packing)	14.248 g
Weight per Piece (excluding packing)	14.248 g
Customs tariff number	85369010
Country of origin	PL

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Technical Data

Notes

General	Current and voltage are determined by the plug used.
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Product properties

Product type	Multi-level terminal block
Product family	PTS
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	6
Number of rows	3
Potentials	3

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Number of connections per level	2
Nominal cross section	1.5 mm ²

1 level

Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1 / B1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Cross section AWG	26 ... 14 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 1 mm ² Using the AI-S 1-8 TQ ferrule, Item No. 1200293, is recommended
Nominal current	15 A (observe derating)
Maximum load current	15 A
Nominal voltage	500 V
Nominal cross section	1.5 mm ²

1 level Connection cross sections directly pluggable

Conductor cross section rigid	0.25 mm ² ... 1.5 mm ²
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Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm ² ... 1 mm ²

Dimensions

Width	3.5 mm
End cover width	0.8 mm
Height	64.3 mm
Height NS 35/15	65.8 mm
Height NS 35/7,5	58.3 mm
Length	119.5 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
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Electrical tests

Surge voltage test

Result	Test passed
Short-time withstand current 1.5 mm ²	0.18 kA AC
Result	Test passed

Power-frequency withstand voltage

Result	Test passed
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Mechanical properties

Mechanical data

Open side panel	Yes
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Mechanical tests

Attachment on the carrier

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DIN rail/fixing support	NS 35
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 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
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
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Mounting

Mounting type	NS 35/7,5
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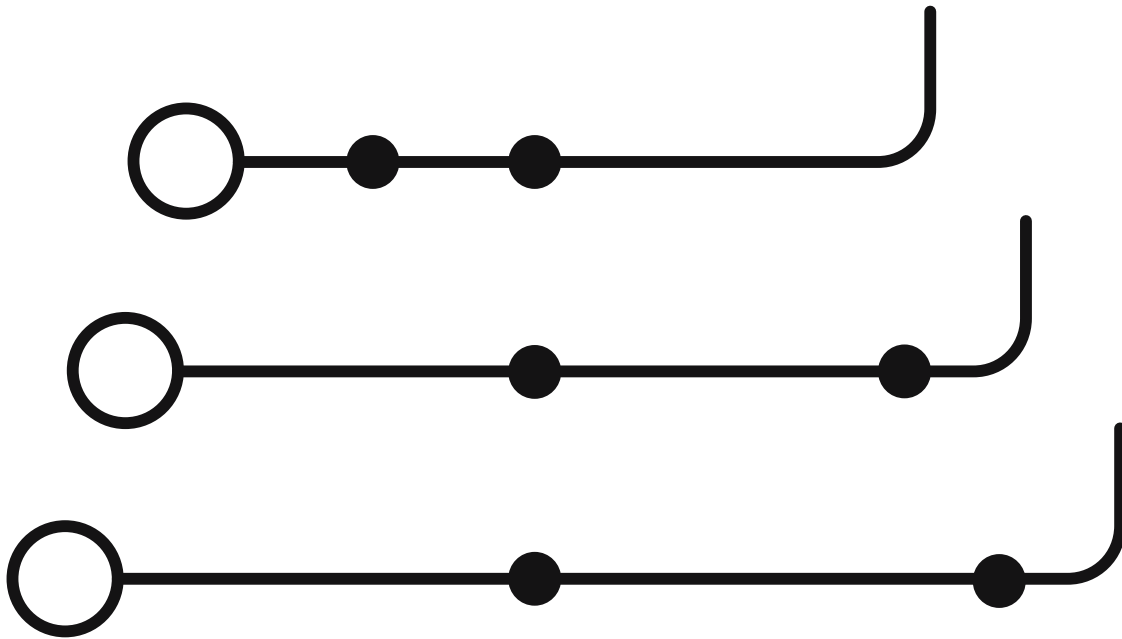


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Drawings

Circuit diagram




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Approvals

 CSA Approval ID: 158887				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B	300 V	13 A	26 - 14	-
Use group C	300 V	13 A	26 - 14	-
Use group D	600 V	5 A	26 - 14	-

 cULus Recognized Approval ID: E60425				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B	300 V	13 A	26 - 14	-
Use group C	300 V	13 A	26 - 14	-
Use group F	500 V	13 A	26 - 14	-
Use group D	600 V	5 A	26 - 14	-

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Classifications

ECLASS

ECLASS-11.0

27141120

ETIM

ETIM 8.0

EC000897

UNSPSC

UNSPSC 21.0

39121400

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Environmental Product Compliance

China RoHS

Environmentally friendly use period: unlimited = EFUP-e

No hazardous substances above threshold values

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PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk



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