XTTB 1,5-PV - Double-level terminal block

1641229

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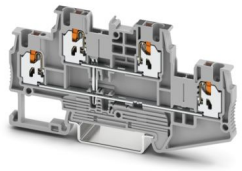


Double-level terminal block, with equipotential bonder, nom. voltage: 500 V, nominal current: 16 A, connection method: Push-X-connection, Rated cross section: 1.5 mm^2, cross section: 0.25 mm^2 - 2.5 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- Maximum ease of use thanks to the effortless and tool-free Push-X technology
- Quick installation of all types of conductors with and without ferrule
- Open clamping chambers guarantee quick wiring on site
- Clear identification of the conductor connection
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Maximum efficiency in the smallest space - thanks to integrated level bridging, the connections are connected across levels
- Optimized for manual and automated wiring

Push-X Technology
Designed by Phoenix Contact

Commercial data

Item number	1641229
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE2514

Product key	BE2514
GTIN	4067923168084
Weight per piece (including packing)	12.512 g
Weight per piece (excluding packing)	12.5 g
Customs tariff number	85369010
Country of origin	CN

Technical data

Product properties

Product type	Multi-level terminal block
Product family	XT
Number of positions	2
Number of connections	4
Number of rows	2
Potentials	1

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

Nominal cross section	1.5 mm²
Rated cross section AWG	16
Connection method	Push-X-connection
Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.25 mm² ... 2.5 mm²
Cross section AWG	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible	0.34 mm² ... 2.5 mm²
Conductor cross-section, flexible [AWG]	20 ... 14 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.25 mm² ... 2.5 mm²
Conductor cross-section, flexible [AWG] ultrasound-compressed	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 1 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 1 mm²
Nominal cross section	1.5 mm²
Nominal current	16 A
Maximum load current	17.5 A (at 2.5 mm² conductor cross-section, flexible)
Nominal voltage	500 V

Dimensions

Width	4.2 mm
Height	89.6 mm
Depth	46.1 mm
Depth on NS 35/7,5	47.6 mm
Depth on NS 35/15	55.1 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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
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	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 1.5 mm²	0.18 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes

Mechanical tests

Mechanical strength

Result	Test passed

Attachment on the carrier

Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135

Conductor cross-section/weight	0.25 mm² / 0.2 kg
	0.34 mm² / 0.2 kg
	1.5 mm² / 0.4 kg
	2.5 mm² / 0.7 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	EN 50155:2021-07
Spectrum	Long life test category 1, class B, body mounted
Frequency	f_1 = 5 Hz to f_2 = 150 Hz
ASD level	0.964 (m/s²)²/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 ... 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

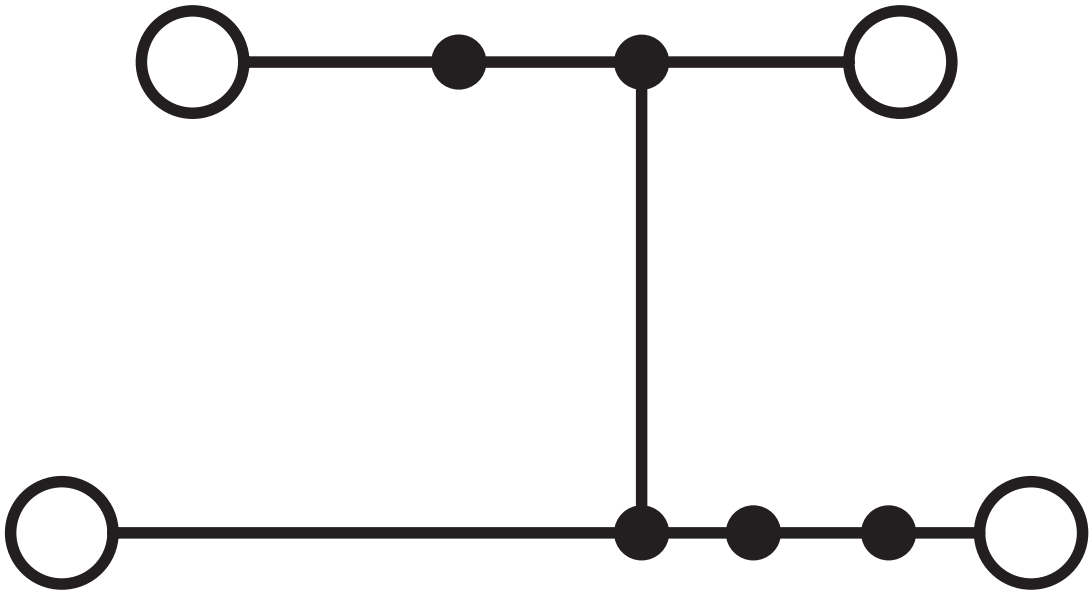
Connection in acc. with standard	IEC 60947-7-1

Mounting

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

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1641229

CSA
Approval ID: 158887

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	15 A	22 - 14	-
C				
	300 V	15 A	22 - 14	-
D				
	300 V	10 A	22 - 14	-

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	15 A	22 - 14	-
C				
	300 V	15 A	22 - 14	-
D				
	300 V	10 A	22 - 14	-

DNV
Approval ID: TAE000051K

Classifications

ECLASS

ECLASS-13.0	27250102
ECLASS-15.0	27250102

ETIM

ETIM 10.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

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%

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