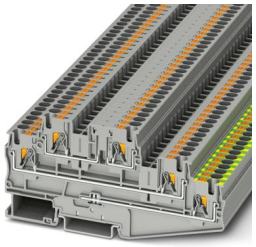
PT 4-PE/L/L - Multi-level terminal block

3002613

https://www.phoenixcontact.com/us/products/3002613

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Multi-level terminal block, nom. voltage: 500 V, connection method: Push-in connection, Rated cross section: 4 mm^2, cross section: 0.2 mm^2 - 6 mm^2, connection method: Push-in connection, Rated cross section: 4 mm^2, cross section: 0.2 mm^2 - 6 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- Time-saving conductor connection thanks to tool-free direct-connection technology
- Vibration-resistant and maintenance-free conductor connection
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Meet the requirements of DIN EN 60947-7-2 or IEC 60947-7-2 for protective conductor connections
- High level of safety thanks to the low-resistance connection to the ground potential via the top-hat rail
- Direct contacting with the DIN rail enables fast, error-free grounding without additional wiring effort.

Commercial data

Item number	3002613
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2225
GTIN	4055626370262
Weight per piece (including packing)	29.68 g
Weight per piece (excluding packing)	29.734 g
Customs tariff number	85369010
Country of origin	IN

Technical data

Product properties

Product type	Multi-level terminal block
Product family	PT
Number of connections	5
Number of rows	3

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	4 mm²

Level 1

Connection method	Push-in connection
Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-3
Conductor cross-section rigid	0.2 mm² ... 6 mm²
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 6 mm²
Conductor cross-section, flexible [AWG]	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm² ... 6 mm²
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1 mm²
Nominal cross section	4 mm²
Maximum load current	32 A (with 6 mm² conductor cross-section, rigid)
Nominal voltage	500 V

Level 2

Connection method	Push-in connection
Stripping length	10 mm ... 12 mm
Connection in acc. with standard	IEC 60947-7-3
Conductor cross-section rigid	0.2 mm² ... 6 mm²

Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 4 mm²
Conductor cross-section, flexible [AWG]	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 4 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm² ... 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1 mm²
Nominal cross section	4 mm²
Nominal current	20 A
Maximum load current	20 A
Nominal voltage	500 V

Level 1 Connection cross sections directly pluggable

Conductor cross-section rigid	0.5 mm² ... 6 mm²
Conductor cross-section, rigid [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm² ... 4 mm²

Level 2 Connection cross sections directly pluggable

Conductor cross-section rigid	0.5 mm² ... 6 mm²
Conductor cross-section, rigid [AWG]	20 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² ... 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm² ... 4 mm²

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔx II 3 G Ex ec IIC Gc
Operating temperature range	-60 °C ... 125 °C
Ex-certified accessories	3002619 D-PT 4-PE/L/HESI
	1205066 SZS 1,0X4,0 VDE
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-6 / 3030336
	Plug-in bridge / FBS 3-6 / 3030242
	Plug-in bridge / FBS 4-6 / 3030255
	Plug-in bridge / FBS 5-6 / 3030349
	Plug-in bridge / FBS 10-6 / 3030271
	Plug-in bridge / FBS 20-6 / 3030365
Bridge data	19 A / 4 mm²
for bridging with bridge	275 V
- At bridging between non-adjacent terminal blocks	275 V
- At cut-to-length bridging with cover	275 V
Rated insulation voltage	250 V

output	(Permanent)

Ex level General

Rated voltage	275 V

Ex connection data General

Nominal cross section	4 mm²
Rated cross section AWG	12
Connection capacity rigid	0.2 mm² ... 6 mm²
Connection capacity AWG	24 ... 10
Connection capacity flexible	0.2 mm² ... 4 mm²
Connection capacity AWG	24 ... 12
output	(Permanent)

Ex level Level 2

Rated current	29 A (4 mm²)
Maximum load current	32 A (6 mm²)
Contact resistance	0.9 mΩ
Temperature increase	40 K (29 A/4 mm²)
output	(Permanent)

Ex level Level 3

Rated current	20 A (4 mm²)
Maximum load current	20 A (6 mm²)
Contact resistance	1.7 mΩ
Temperature increase	35 K (20 A/4 mm²)

Dimensions

Width	6.2 mm
Height	119.5 mm
Depth	54.5 mm
Depth on NS 35/7,5	56 mm
Depth on NS 35/15	63.5 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
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

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	f_1 = 5 Hz to f_2 = 150 Hz
ASD level	0.964 $(m/s^2)^2/Hz$
Acceleration	0.58g
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	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

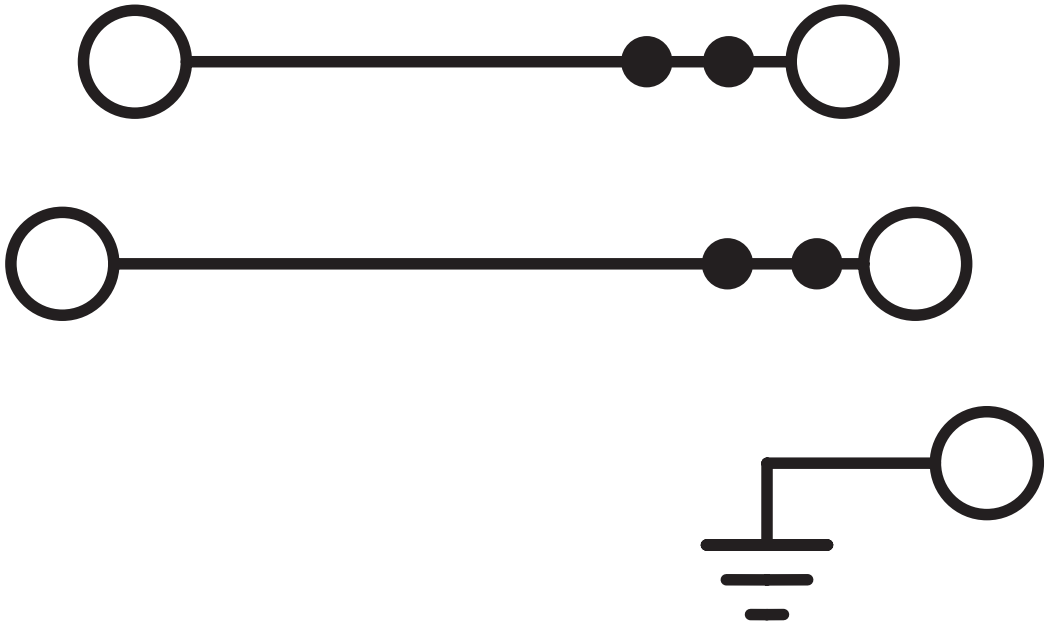
Connection in acc. with standard	IEC 60947-7-3
	IEC 60947-7-3

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/us/products/3002613

CSA
Approval ID: 158887

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
C				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
D				
	600 V	5 A	24 - 10	-

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

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	-	24 - 10	-
middle level	300 V	20 A	24 - 10	-
C				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	-	24 - 10	-
middle level	300 V	20 A	24 - 10	-
D				
	600 V	5 A	24 - 10	-

cUL Recognized
Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
upper level	275 V	16 A	24 - 10	24 - 10
lower level	275 V	20 A	24 - 10	24 - 10

IECEx
Approval ID: IECExKIWA17.0025U

CCC
Approval ID: 2020322313000626

ATEX
Approval ID: KIWA17ATEX0045U

UKCA-EX
Approval ID: CSAE 21UKEX3605U

EAC Ex
Approval ID: KZ 7500525010101950

Classifications

ECLASS

ECLASS-13.0	27250104
ECLASS-15.0	27250104

ETIM

ETIM 10.0	EC000901

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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https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com