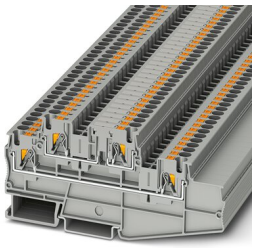
Multi-level terminal block - PT 4-L/L

3002615

https://www.phoenixcontact.com/de/produkte/3002615

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Multi-level terminal block, nom. voltage: 500 V, nominal current: 30 A, 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

- Easy and tool-free direct plug-in thanks to push-in multi-conductor connection

Commercial Data

Item number	3002615
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	A1 - Reihenklemmen
Product Key	BE2224
Catalog Page	Page 100 (C-1-2019)
GTIN	4055626370286
Weight per Piece (including packing)	23,386 g
Weight per Piece (excluding packing)	23,386 g
Customs tariff number	85369010
Country of origin	CN

Technical Data

Product properties

Product type	Multi-level terminal block
Number of connections	4
Number of rows	3
Potentials	2

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

Number of connections per level	2
Nominal cross section	4 mm²

Level 1

Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A4
Conductor cross section solid	0.2 mm² ... 6 mm²
Cross section AWG	24 ... 10
Conductor cross section flexible	0.2 mm² ... 6 mm²
Conductor cross section, flexible [AWG]	24 ... 10
Flexible conductor cross section flexible (ferrule, w/o 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 current	30 A
Maximum load current	32 A (with 6 mm² conductor cross section, rigid)
Nominal voltage	500 V
Nominal cross section	4 mm²

Level 2

Stripping length	10 mm ... 12 mm
Conductor cross section solid	0.2 mm² ... 6 mm²
Cross section AWG	24 ... 10
Conductor cross section flexible	0.2 mm² ... 6 mm²
Conductor cross section, flexible [AWG]	24 ... 10
Flexible conductor cross section flexible (ferrule, w/o 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
Nominal current	20 A
Maximum load current	20 A
Nominal voltage	500 V
Nominal cross section	4 mm²

Level 1 Connection cross sections directly pluggable

Conductor cross section solid	0.5 mm² ... 6 mm²
Conductor cross section, solid [AWG]	20 ... 10
Flexible conductor cross section flexible (ferrule, w/o 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 solid	0.5 mm² ... 6 mm²
Conductor cross section, solid [AWG]	20 ... 10
Flexible conductor cross section flexible (ferrule, w/o 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)

ATEX certificate	KIWA 17 ATEX 0045 U
IEC Ex certificate	IECEx KIWA 17.0025 U
Identification	☐ 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
Bridge data	19 A / 4 mm²
Rated voltage	275 V
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

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

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)

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	54.5 mm
Height NS 35/15	63.5 mm
Height NS 35/7,5	56 mm
Length	118.5 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V2
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	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 2.5 mm²	0.3 kA
Short-time withstand current 4 mm²	0.48 kA
Short-time withstand current 6 mm²	0.72 kA
Short-time withstand current 2.5 mm²	0.3 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

DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm² / 0.2 kg
	4 mm² / 0.9 kg
	6 mm² / 1.4 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	Service 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

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 ... 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

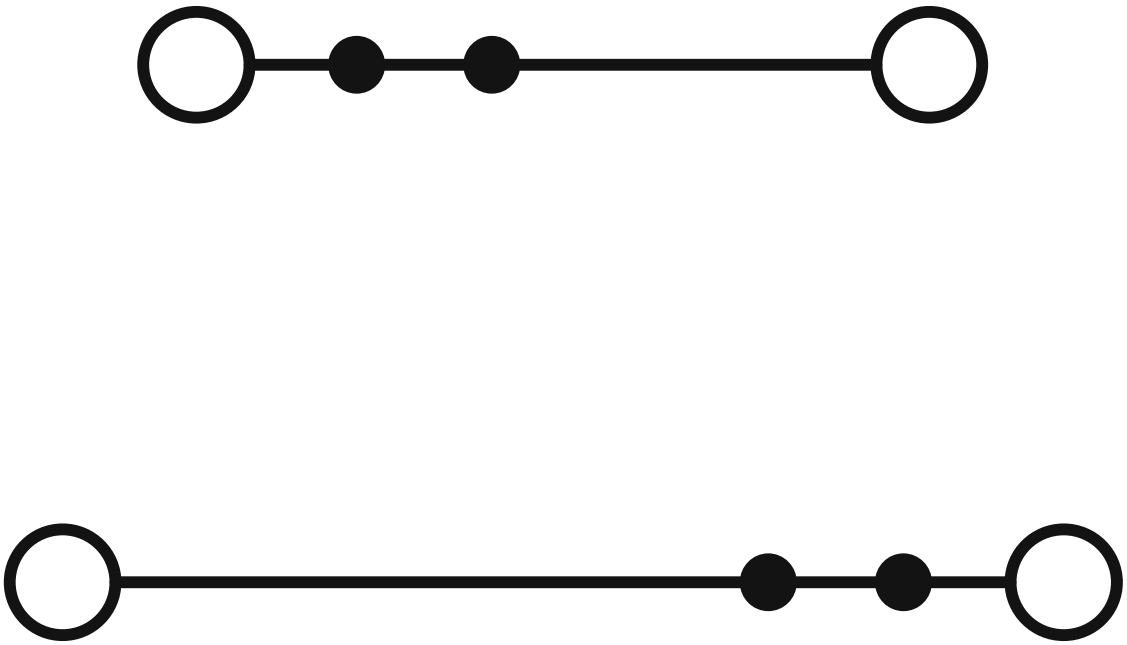
Connection in acc. with standard	IEC 60947-7-3
	IEC 60947-7-3
	IEC 60947-7-3
	IEC 60947-7-3

Mounting

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

Drawings

Circuit diagram



Approvals

CSA
Approval ID: 13631

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
Use group C				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
Use group D				
	600 V	5 A	24 - 10	-

cUL Recognized
Approval ID: FILE E 60425

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
Use group C				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
Use group D				
	600 V	5 A	24 - 10	-

UL Recognized
Approval ID: FILE E 60425

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
Use group C				
upper level	300 V	16 A	24 - 10	-
lower level	300 V	20 A	24 - 10	-
Use group D				
	600 V	5 A	24 - 10	-

EAC
Approval ID: RU C-DE.AI30.B.01102

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

cUL Recognized
Approval ID: E192998

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
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

UL Recognized
Approval ID: FILE E 192998

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
upper level	275 V	16 A	24 - 10	-
lower level	275 V	20 A	24 - 10	-

CCC
Approval ID: 2020322313000626

NEPSI
Approval ID: GYJ20.1204U

ATEX
Approval ID: KIWA17ATEX0045U

UKCA-EX
Approval ID: CSAE 21UKEX3605U

cULus Recognized

cULus Recognized

Classifications

ECLASS

ECLASS-9.0	27141120
ECLASS-10.0.1	27141120
ECLASS-11.0	27141120

ETIM

ETIM 8.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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