

3210583

https://www.phoenixcontact.com/us/products/3210583

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.



Double-level terminal block, with equipotential bonder, nom. voltage: 500 V, nominal current: 22 A, connection method: Push-in connection, 1st and 2nd level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, 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

 br/>
- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- · Tested for railway applications

Commercial data

Item number	3210583
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2214
GTIN	4046356419000
Weight per piece (including packing)	11.076 g
Weight per piece (excluding packing)	11.076 g
Customs tariff number	85369010
Country of origin	CN



3210583

https://www.phoenixcontact.com/us/products/3210583

Technical data

Product properties

Product type	Multi-level terminal block
Product family	PT
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
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	0.77 W

Connection data

Number of connections per level	2
Nominal cross section	2.5 mm²
Rated cross section AWG	12

1st and 2nd level

Stripping length	8 mm 10 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 4 mm²
Conductor cross section, flexible [AWG]	26 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm²
Nominal current	22 A (with 2.5 mm² conductor connection cross section)
Maximum load current	26 A (with 4 mm² conductor cross section, rigid)
Nominal voltage	500 V
Nominal cross section	2.5 mm²



3210583

https://www.phoenixcontact.com/us/products/3210583

1st and 2nd level Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm² 4 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² 2.5 mm²

Ex data

Rated data (ATEX/IECEx)

Identification	
Operating temperature range (1)	-60 °C 85 °C
Operating temperature range (2)	-40 °C 110 °C
Ex-certified accessories	3211634 D-PTTB 2,5
	3030747 ATP-STTB 4
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-5 / 3030161
	Plug-in bridge / FBS 3-5 / 3030174
	Plug-in bridge / FBS 4-5 / 3030187
	Plug-in bridge / FBS 5-5 / 3030190
	Plug-in bridge / FBS 10-5 / 3030213
	Plug-in bridge / FBS 20-5 / 3030226
Bridge data	16 A / 2.5 mm²
Ex temperature increase	40 K (18 A / 2.5 mm²)
for bridging with bridge	440 V
- At bridging between non-adjacent terminal blocks	352 V
- At cut-to-length bridging	166 V
- At cut-to-length bridging with cover	352 V
- At cut-to-length bridging with partition plate	440 V
Rated insulation voltage	400 V
output	(Permanent)

Ex level General

Rated voltage	440 V
Rated current	18 A
Maximum load current	22 A

Ex connection data General

Ex connection data General	
Nominal cross section	2.5 mm ²
Rated cross section AWG	14
Connection capacity rigid	0.14 mm² 4 mm²
Connection capacity AWG	26 12
Connection capacity flexible	0.14 mm² 2.5 mm²
Connection capacity AWG	26 14
output	(Permanent)



3210583

https://www.phoenixcontact.com/us/products/3210583

Ex level Level 1

Contact resistance	1.2 mΩ
output	(Permanent)
Ex level Level 2	
Contact resistance	0.92 mΩ

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	68 mm
Depth	45.8 mm
Depth on NS 35/7,5	47.5 mm
Depth on NS 35/15	55 mm

Material specifications

gray (RAL 7042)
V0
I
PA
-60 °C
130 °C
130 °C
HL 1 - HL 3
28 MJ/kg
passed
passed
passed

Electrical tests

Surge voltage test

Test voltage setpoint	7.3 kV
Result	Test passed
Temperature-rise test	

I	empera	ture-rise	test
•	- · · · p - · · · ·		

Tomporataro noo toot	
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
Result	Test passed



3210583

https://www.phoenixcontact.com/us/products/3210583

Power-frequency withstand voltage	
T	4.00.177

rest voltage setpoint	1.89 KV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes

Mechanical tests

Result

Mechanical strength

Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed

Test passed

Test for conductor damage and slackening

ŭ ŭ	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 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/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks



3210583

https://www.phoenixcontact.com/us/products/3210583

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; 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 %
tandards and regulations	
Connection in acc. with standard	IEC 60947-7-1
Nounting	
Mounting type	NS 35/7,5
	NS 35/15

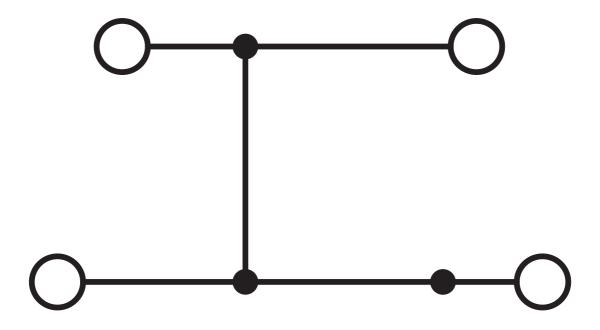


3210583

https://www.phoenixcontact.com/us/products/3210583

Drawings

Circuit diagram





3210583

https://www.phoenixcontact.com/us/products/3210583

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3210583

CB scheme	IECEE CB Scheme Approval ID: DE1-66980				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		500 V	22 A	-	0.2 - 2.5

CULus Recogniz Approval ID: E60425				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	20 A	26 - 12	-
Use group C				
	300 V	20 A	26 - 12	-
Use group D				
	600 V	5 A	26 - 12	-

Hoyds	LR
Register	Approval ID: LR2371832TA

ClassNK	NK
C19221417	Approval ID: 22ME0007

BV
Approval ID: 25278/C1 BV

VDE Zeichengeneh Approval ID: 40032222	nmigung			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	500 V	22 A	-	0.2 - 2.5

ABS			
Approval ID: 21-2192245-PDA			

ClassNK	NK
C1072141/	Approval ID: 14ME0912



3210583

https://www.phoenixcontact.com/us/products/3210583

DNV

Approval ID: TAE000010T

II (IEĈEX Approval ID: IECEX	xPTB10.0021U			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Only flexible conductors	440 V	18 A	-	0.14 - 2.5
Only rigid conductors	440 V	22 A	-	0.14 - 4

ATEX Approval ID: PTB09ATE	X1111U			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Only flexible conductors	440 V	18 A	-	0.14 - 2.5
Only rigid conductors	440 V	22 A	-	0.14 - 4

CCC

Approval ID: 2020322313000631



UKCA-EX

Approval ID: CSAE 22UKEX1096U



EAC Ex

Approval ID: KZ 7500525010101950



3210583

https://www.phoenixcontact.com/us/products/3210583

Classifications

ECLASS

	ECLASS-13.0	27250102	
	ECLASS-15.0	27250102	
ETIM			
	ETIM 9.0	EC000897	
UNSPSC			

U

UNSPSC 21.0 39121400



3210583

https://www.phoenixcontact.com/us/products/3210583

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