

1579812

https://www.phoenixcontact.com/sg/products/1579812

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, nom. voltage: 500 V, nominal current: 22 A, connection method: Push-in connection, 1st and 2nd level, Rated cross section:  $2.5~\text{mm}^2$ , cross section:  $0.5~\text{mm}^2$  -  $2.5~\text{mm}^2$ , mounting type: NS 35/7,5, NS 35/15, color: dark gray

### Your advantages

- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The compact design and front connection enable wiring in a confined space<br/>
  space<br/>
  in a confined space<br/>
  in a

#### Commercial data

Item number	1579812
Packing unit	50 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BEL214
GTIN	4067923070431
Weight per piece (including packing)	12.66 g
Weight per piece (excluding packing)	12.66 g
Country of origin	CN



1579812

https://www.phoenixcontact.com/sg/products/1579812

### Technical data

Product type	Multi-level terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	2
Number of connections	4
Number of rows	2
Potentials	2
nsulation characteristics	
Overvoltage category	III
Degree of pollution	3
ctrical properties	
Rated surge voltage	6 kV

### Connection data

Number of connections per level	2
Nominal cross section	2.5 mm²

#### 1st and 2nd level

Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm² 2.5 mm²
Cross section AWG	20 14 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² 2.5 mm²
Conductor cross section, flexible [AWG]	20 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm²
Nominal current	22 A
Maximum load current	22 A (with 2.5 mm² conductor cross-section, rigid)
Nominal voltage	500 V
Nominal cross section	2.5 mm²

### 1st and 2nd level Connection cross sections directly pluggable

Conductor cross section rigid	0.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 2.5 mm²



1579812

https://www.phoenixcontact.com/sg/products/1579812

#### **Dimensions**

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

### Material specifications

Color	traffic grey B (RAL 7043)
Flammability rating according to UL 94	V0
Insulating material group	1
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	9.8 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
Result	Test passed

#### Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

### Mechanical properties

#### Mechanical data

Open side panel	Yes

#### Mechanical tests

#### Mechanical strength



1579812

https://www.phoenixcontact.com/sg/products/1579812

Result	Test passed
attachment on the carrier	
DIN rail/fixing support	NS 35
Result	Test passed
est for conductor damage and slackening	
Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	0.5 mm² / 0.3 kg
	2.5 mm² / 0.7 kg
Result	Test passed
vironmental and real-life conditions	
Aging  Temperature cycles	192
Result	Test passed
result	rest passed
Needle-flame test	
Time of exposure	30 s
Result	Test passed
Oscillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Service 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	
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 (Operating temperature range incl. self-heating for max. short-term operating temperature, see RTI Elec.)
	-25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to
Ambient temperature (storage/transport)	+70 °C)
Ambient temperature (storage/transport)  Ambient temperature (assembly)	+70 °C) -5 °C 70 °C



1579812

https://www.phoenixcontact.com/sg/products/1579812

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

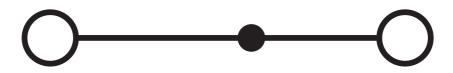


1579812

https://www.phoenixcontact.com/sg/products/1579812

### Drawings









1579812

https://www.phoenixcontact.com/sg/products/1579812

### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/1579812

CULus Recognized Approval ID: E60425					
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>	
Use group B					
	300 V	20 A	26 - 12	-	
Use group C					
	300 V	20 A	26 - 12	-	



1579812

https://www.phoenixcontact.com/sg/products/1579812

### Classifications

#### **ECLASS**

ECLASS-13.0 27250102



1579812

https://www.phoenixcontact.com/sg/products/1579812

### 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 SEA Pte. Ltd. 105 Eunos Avenue 3, #04-00 Singapore 409836 +65 6228 4900 marketing@phoenixcontact.com.sg