

https://www.phoenixcontact.com/sg/products/1574172

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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 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 2. 5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: dark gray

### Your advantages

- · 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

### Commercial data

Item number	1574172
Packing unit	50 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BEL214
GTIN	4067923063105
Weight per piece (including packing)	10.2 g
Weight per piece (excluding packing)	10.2 g
Country of origin	CN

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## Technical data

#### Product properties

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	
sulation characteristics		
Overvoltage category	III	
Degree of pollution	3	
ctrical properties		
Rated surge voltage	6 kV	
Maximum power dissipation for nominal condition	0.77 W	
Number of connections per level	2	
nnection data		
Nominal cross section	2.5 mm <sup>2</sup>	
t 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	0.5 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 mm <sup>2</sup> 2.5 mm <sup>2</sup>	
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>	
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 mm <sup>2</sup> conductor connection cross section)	
Maximum load current	22 A (with a 2.5 mm <sup>2</sup> conductor cross-section, rigid)	
Nominal voltage	500 V	
Nominal cross section	2.5 mm <sup>2</sup>	
t and 2nd level Connection cross sections directly pluggable		
Conductor cross section rigid	$0 E mm^2$ $0 E mm^2$	

Conductor cross section rigid

 $0.5 \text{ mm}^2 \dots 2.5 \text{ mm}^2$ 

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

#### 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

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	
Result	Test passed
Short-time withstand current 2.5 mm <sup>2</sup>	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



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Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Result	Test passed
Test for conductor damage and slackening Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm² / 0.3 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	DIN EN 50155 (VDE 0115-200):2008-03
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	
Specification	DIN EN 50155 (VDE 0115-200):2022-06
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)	-50 °C 105 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)



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



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Drawings

Circuit diagram





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## Approvals

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CULus Recogniz 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	-
Use group D				
	600 V	5 A	26 - 12	-

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## Classifications

#### ECLASS

ECLASS-13.0

27250102

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## 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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