

1574291

https://www.phoenixcontact.com/sg/products/1574291

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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 mm^2 , cross section: 0.5 mm^2 - 2.5 mm^2 , mounting type: NS 35/7,5, NS 35/15, color: blue

Your advantages

- The compact design and front connection enable wiring in a confined space

 space

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- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

Commercial data

Item number	1574291
Packing unit	50 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BEL214
GTIN	4067923063143
Weight per piece (including packing)	13.37 g
Weight per piece (excluding packing)	13.37 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	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 mm ²
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	0.5 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
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 2.5 mm²
Nominal current	22 A (with 2.5 mm² conductor connection cross section)
Maximum load current	22 A (with a 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



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Conductor cross section rigid	0.5 mm² 2.5 mm²
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
mensions	
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
terial specifications	
Color	blue (RAL 5015)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Surge voltage test Test voltage setpoint	9.8 kV
Result	Test passed
Nesuit	rest passeu
Femperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm²	0.3 kA
Decult	
Result	Test passed
Power-frequency withstand voltage	Test passed
	Test passed 2 kV
Power-frequency withstand voltage	
Power-frequency withstand voltage Test voltage setpoint	2 kV
Power-frequency withstand voltage Test voltage setpoint Result	2 kV
Power-frequency withstand voltage Test voltage setpoint Result chanical properties	2 kV
Power-frequency withstand voltage Test voltage setpoint Result chanical properties Mechanical data	2 kV Test passed
Power-frequency withstand voltage Test voltage setpoint Result Chanical properties Mechanical data Open side panel Chanical tests	2 kV Test passed
Power-frequency withstand voltage Test voltage setpoint Result Chanical properties Mechanical data Open side panel Chanical tests Mechanical strength	2 kV Test passed Yes
Power-frequency withstand voltage Test voltage setpoint Result Chanical properties Mechanical data Open side panel Chanical tests	2 kV Test passed
Power-frequency withstand voltage Test voltage setpoint Result Chanical properties Mechanical data Open side panel Chanical tests Mechanical strength	2 kV Test passed Yes
Power-frequency withstand voltage Test voltage setpoint Result Chanical properties Mechanical data Open side panel Chanical tests Mechanical strength Result	2 kV Test passed Yes



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Temperature cycles	Rotation speed	10 rpm
2.5 mm² / 0.7 kg	Revolutions	135
Result Test passed irronmental and real-life conditions irronmental and real-life conditions irronmental and real-life conditions Temperature cycles 192 Result Test passed sedic-flame test Time of exposure 30 s Result Test passed Specification DIN EN 50155 (VDE 0115-200):2022-06 Specification DIN EN 50155 (VDE 0115-200):2022-06 Spectrum Service life test category 2, bogic-mounted Frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s³)*/Hz Acceleration 3.12g Test duration per axis 5 h Test duration per axis 5 h Test directions X-, Y- and Z-axis Result Test passed DIN EN 50155 (VDE 0115-200):2022-06 Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Result Test passed DIN EN 50155 (VDE 0115-200):2022-06 Half-sine 30g Shock duration 18 ms Number of shocks per direction 30g Shock duration 18 ms Number of shocks per direction 30g Shock duration 18 ms Number of shocks per direction 30g Result Test passed	Conductor cross section/weight	0.5 mm² / 0.3 kg
ironmental and real-life conditions jing Temperature cycles Result Test passed 192 Result Test passed 30 s Result Test passed 31 p Test of f ₂ = 250 Hz A5D level 6.12 (m/s²)²/Hz Acceleration 3.12g Test directions Test directions Test directions Test directions Test passed 30 p Nocks Specification DIN EN 50155 (VDE 0115-200):2022-06 Pulse shape Half-sine Acceleration 30 g Shock duration 18 ms Number of shocks per direction 3 g Result Test passed 7 set passed Test directions Test directions Test directions Test direction Test direction Test passed 7 set passed Test passed		2.5 mm² / 0.7 kg
Temperature cycles	Result	Test passed
Result Test passed eedle-flame test 30 s Time of exposure 30 s Result Test passed scillation/broadband noise Spectrum Spectrum Service life test category 2, bogie-mounted Frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s³)*Hz Acceleration 3.12g Test duration per axis 5 h Test directions X-, Y- and Z-axis Result Test passed nocks 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 mbient conditions Test passed Ambient temperature (operation) -50 °C 105 °C (Operating temperature, see RTI Elec.) Ambient temperature (storage/transport) -25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C	ironmental and real-life conditions	
Result Test passed seedle-flame test 30 s Result Test passed scillation/broadband noise Feet passed Specification DIN EN 50155 (VDE 0115-200):2022-06 Spectrum Service life test category 2, bogie-mounted Frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s³)*Hz Acceleration 3.12g Test duration per axis 5 h Test directions X-, Y- and Z-axis Result Test passed nocks 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	ging	
### Result ### Test passed Test passed ### Test passed ### Result	Temperature cycles	192
Time of exposure 30 s	Result	Test passed
Result Scillation/broadband noise Specification DIN EN 50155 (VDE 0115-200):2022-06 Spectrum Service life test category 2, bogie-mounted Frequency f ₁ = 5 Hz to f ₂ = 250 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 DIN EN 50155 (VDE 0115-200):2022-06 Half-sine Acceleration DIN EN 50155 (VDE 0115-200):2022-06 Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Test directions Ax, Y- and Z-axis (pos. and neg.) Test passed Test passed	eedle-flame test	
Specification DIN EN 50155 (VDE 0115-200):2022-06 Spectrum Service life test category 2, bogie-mounted Frequency f ₁ = 5 Hz to f ₂ = 250 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 DIN EN 50155 (VDE 0115-200):2022-06 Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Test passed Test passed Test passed Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-free 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	Time of exposure	30 s
Specification DIN EN 50155 (VDE 0115-200):2022-06 Spectrum Service life test category 2, bogie-mounted Frequency $f_1 = 5$ Hz to $f_2 = 250$ 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 Hocks Specification 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 Imbient conditions Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-hear 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	Result	Test passed
Spectrum Service life test category 2, bogie-mounted Frequency f ₁ = 5 Hz to f ₂ = 250 Hz 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 DIN EN 50155 (VDE 0115-200):2022-06 Pulse shape Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Test directions Acceleration Test passed Test passed 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Test passed	scillation/broadband noise	
Frequency $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ ASD level $6.12 \text{ (m/s}^2)^2/\text{Hz}$ Acceleration $3.12g$ Test duration per axis 5 h Test directions $X \cdot Y \cdot $	Specification	DIN EN 50155 (VDE 0115-200):2022-06
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 Acceleration 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 Test passed Acceleration 50g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Result Test passed Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-hear 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	Spectrum	Service life test category 2, bogie-mounted
Acceleration 3.12g Test duration per axis 5 h Test directions X-, Y- and Z-axis Result Test passed Test passed 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 Test passed Achieve the passed Test passed Achieve the passed Test passed Test passed Test passed Test passed Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-hear 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	Frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
Test duration per axis Test directions X-, Y- and Z-axis Result Test passed DIN EN 50155 (VDE 0115-200):2022-06 Pulse shape Acceleration Shock duration Shock duration 18 ms Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Result Test passed Test passed Achient temperature (operation) Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-hear 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	ASD level	6.12 (m/s²)²/Hz
Test directions X-, Y- and Z-axis Result Test passed Test passed DIN EN 50155 (VDE 0115-200):2022-06 Pulse shape Acceleration 30g Shock duration 18 ms Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Result Test passed Test passed Test passed Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-head 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	Acceleration	3.12g
Result Test passed Test passed 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 Test passed Test passed Test passed Ambient conditions Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-heat 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	Test duration per axis	5 h
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 mbient conditions Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-heat 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	Test directions	X-, Y- and Z-axis
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 mbient conditions Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-heat 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	Result	Test passed
Pulse shape 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 Test passed Test passed Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-hear 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	nocks	
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 Test passed Test passed Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-hear 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	Specification	DIN EN 50155 (VDE 0115-200):2022-06
Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Result Test passed Test passed Test passed Test passed Test passed Test passed Ambient conditions -50 °C 105 °C (Operating temperature range incl. self-hear 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	Pulse shape	Half-sine
Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Result Test passed Test passed Ambient conditions -50 °C 105 °C (Operating temperature range incl. self-hear 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	Acceleration	30g
Test directions X-, Y- and Z-axis (pos. and neg.) Result Test passed Test passed Test passed Ambient conditions -50 °C 105 °C (Operating temperature range incl. self-hear 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	Shock duration	18 ms
Result Test passed mbient conditions Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-hear 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	Number of shocks per direction	3
mbient conditions Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-hear 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	Test directions	X-, Y- and Z-axis (pos. and neg.)
Ambient temperature (operation) -50 °C 105 °C (Operating temperature range incl. self-heat 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	Result	Test passed
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	mbient conditions	
	Ambient temperature (operation)	-50 °C 105 °C (Operating temperature range incl. self-heati 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 (assembly)	-5 °C 70 °C
	Ambient temperature (actuation)	-5 °C 70 °C

30 % ... 70 %

Standards and regulations

Permissible humidity (storage/transport)



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	Connection in acc. with standard	IEC 60947-7-1
Мо	punting	
	Mounting type	NS 35/7,5
		NS 35/15

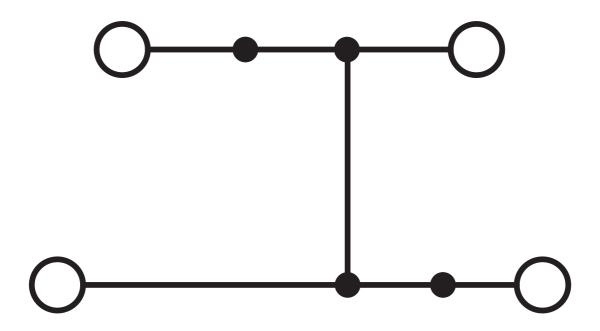


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Drawings







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/1574291

CULus Recognized 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	-



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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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