

1574141

https://www.phoenixcontact.com/sg/products/1574141

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 3, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.5 mm² - 2.5 mm², 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

 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	1574141
Packing unit	50 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BEL212
GTIN	4067923062955
Weight per piece (including packing)	7.05 g
Weight per piece (excluding packing)	8.601 g
Country of origin	CN



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Technical data

Notes

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Note	The max. load current must not be exceeded by the total current
	of all connected conductors.

Product properties

Product type	Multi-conductor terminal block
Product family	TBP
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	1
Number of connections	3
Number of rows	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	3
Nominal cross section	2.5 mm²
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 mm ²
Nominal current	24 A (with 2.5 mm² conductor connection cross section)
Maximum load current	24 A (with a 2.5 mm² conductor cross-section, rigid)
Nominal voltage	800 V
Nominal cross section	2.5 mm²



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Connection cross sections directly pluggable

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

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	60.5 mm
Depth	35.3 mm
Depth on NS 35/7,5	36.8 mm
Depth on NS 35/15	44.3 mm

Material specifications

Color	traffic grey B (RAL 7043)
Flammability rating according to UL 94	V0
Insulating material group	I
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

rower-nequency withstand voitage	
Test voltage setpoint	2 kV
Result	Test passed

Mechanical properties



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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	10 (11 0)
Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	0.5 mm² / 0.3 kg
Result	2.5 mm² / 0.7 kg Test passed
Result	rest 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):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	
Shocks	DIN EN 50155 (VDE 0115 200)-2009 02
Specification Pulse shape	DIN EN 50155 (VDE 0115-200):2008-03 Half-sine
Acceleration	
Shock duration	5g 30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
rest directions	Λ-, 1- απά Δ-αλίο (μου. απά πεφ.)



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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.)
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 %
andards and regulations	
Connection in acc. with standard	IEC 60947-7-1
ounting	
Mounting type	NS 35/7,5
	NS 35/15



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Drawings

Circuit diagram





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Approvals

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cULus Recognized Approval ID: E60425					
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
Use group B					
	600 V	20 A	26 - 12	-	
Use group C					
	600 V	20 A	26 - 12	-	
Use group F					
	800 V	20 A	26 - 12	-	



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Classifications

ECLASS

ECLASS-13.0 27250101



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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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