

3033016

https://www.phoenixcontact.com/us/products/3033016

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Your advantages

· Compact design

Commercial data

Item number	3033016
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2119
GTIN	4017918960667
Weight per piece (including packing)	9.632 g
Weight per piece (excluding packing)	9.632 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Product properties

Product type	Hybrid terminal block
Number of connections	3
Number of rows	1
Potentials	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 mm ²

Level 1 above 1+2

Spring-cage connection
8 mm 10 mm
IEC 60947-7-1
0.08 mm² 4 mm²
28 12 (converted acc. to IEC)
0.08 mm² 2.5 mm²
28 14 (converted acc. to IEC)
0.14 mm² 2.5 mm²
0.14 mm² 2.5 mm²
24 A
28 A (The maximum load current must not be exceeded by the total current of all connected conductors.)
800 V
2.5 mm²

Level 1 below 1

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 0.8 Nm
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 2.5 mm²
Conductor cross-section, flexible [AWG]	26 14 (converted acc. to IEC)



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Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 2.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm ² 1.5 mm ²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm ² 1.5 mm ²
2 conductors with same cross section, solid	0.14 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.14 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ²
Nominal current	24 A
Maximum load current	28 A (with 4 mm² conductor cross-section)
Nominal voltage	800 V
Nominal cross section	2.5 mm ²

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	65.3 mm
Depth on NS 35/7,5	42.8 mm
Depth on NS 35/15	50.3 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

Test voltage setpoint	9.8 kV
Result	Test passed

Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K



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Lest passed
Test passed 0.3 kA
0.48 kA
Test passed
rest passeu
2 kV
Test passed
Yes
Test passed
i esi passeu
NS 35
1 N
Test passed
10 rpm
135
0.08 mm² / 0.1 kg
2.5 mm² / 0.7 kg
4 mm² / 0.9 kg
4 mm² / 0.9 kg Test passed
Test passed
Test passed 192
Test passed 192
Test passed 192 Test passed
Test passed 192 Test passed 30 s
Test passed 192 Test passed 30 s
Test passed 192 Test passed 30 s Test passed
Test passed 192 Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2008-03
Test passed 192 Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2008-03 Long life test category 2, bogie-mounted



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Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
hocks	
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
mbient conditions Ambient temperature (operation)	-60 °C 105 °C (max. short-term operating temperature 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 (storage/transport)	30 % 70 %
ndards and regulations	
Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
unting	
Mounting type	NS 35/7,5
	NS 35/15



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Drawings

Circuit diagram





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Classifications

	ECLASS-13.0	27250201	
ETIM			
	ETIM 9.0	EC000897	
UNSPSC			
	UNSPSC 21.0	39121400	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	cd0b5639-82e1-4aba-b758-904b23f3647c

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