

https://www.phoenixcontact.com/au/products/3247019

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High-current terminal block, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 50 mm<sup>2</sup>, cross section: 16 mm<sup>2</sup> - 70 mm<sup>2</sup>, mounting type: direct screw connection, color: gray

### Your advantages

- Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base<br/>br/>
- · Low contact resistance of the contact surface due to ribbing
- · Screw locking by means of spring-loaded elements in the clamping part

### Commercial data

Item number	3247019
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE1311
Product key	BE1311
Catalog page	Page 189 (C-1-2019)
GTIN	4046356607230
Weight per piece (including packing)	126.82 g
Weight per piece (excluding packing)	126.82 g
Customs tariff number	85369010
Country of origin	IN

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## Technical data

### Notes

Note	For a reliable contact of multi stranded conductors it is
	recommended to untwist multi stranded conductors.
roduct properties	
Product type	High current terminal block
Number of positions	1
Number of connections	2
Number of rows	1
Potentials	1
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
ectrical properties	
Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	4.73 W
onnection data	-
Number of connections per level	2
Nominal cross section	50 mm <sup>2</sup>
Screw thread	M6
Tightening torque	6 8 Nm
Stripping length	24 mm
Internal cylindrical gage	B10
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	16 mm <sup>2</sup> 70 mm <sup>2</sup>
Cross section AWG Conductor cross section flexible	4 2/0 (converted acc. to IEC) 25 mm <sup>2</sup> 70 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	2 2/0 (converted acc. to IEC)
	25 mm <sup>2</sup> 50 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve)	25 mm <sup>2</sup> 50 mm <sup>2</sup>
2 conductors with same cross section, solid	10 mm <sup>2</sup> 16 mm <sup>2</sup>
2 conductors with same cross section, solid	10 mm <sup>2</sup> 16 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule	10 mm <sup>2</sup> 16 mm <sup>2</sup>
without plastic sleeve	
Nominal current	150 A
Maximum load current	150 A (with 50 mm <sup>2</sup> conductor cross section)
Nominal voltage	1000 V
Note	Note: Product releases, connection cross sections and notes of

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	connecting aluminum cables can be found in the download area.
Nominal cross section	50 mm²

### Ex data

lentification	🐵 II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1205082 SZS 1,2X8,0 VDE
List of bridges	Fixed bridge / FBI 2-20-EX / 0201113
	Fixed bridge / FBI 3-20-EX / 0201812
Bridge data	130.5 A (50 mm²)
Ex temperature increase	40 K (146.5 A / 50 mm²)
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)
level General	
Rated voltage	690 V
Rated current	133 A
Maximum load current	133 A
Contact resistance	0.1 mΩ
connection data General	
Torque range	6 Nm 8 Nm
Nominal cross section	50 mm <sup>2</sup>
Rated cross section AWG	1/0
Connection capacity rigid	16 mm <sup>2</sup> 50 mm <sup>2</sup>
Connection capacity AWG	6 1/0
Connection capacity flexible	25 mm <sup>2</sup> 50 mm <sup>2</sup>
Connection capacity AWG	4 1/0
2 conductors with same cross section, solid	10 mm <sup>2</sup> 16 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	8 6
2 conductors with same cross section, stranded	10 mm <sup>2</sup> 16 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	8 6

### Dimensions

Dimensional drawing



Width	20 mm
Height	103.4 mm
Depth	76 mm



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Hole diameter	5.5 mm
Naterial specifications	
Color	gray (RAL 7042)
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 50 mm <sup>2</sup>	6 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	2.2 kV
Result	Test passed

### Mechanical properties

Mechanical data	
Open side panel	No

### Mechanical tests

Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 32/NS 35
Test force setpoint	10 N
Result	Test passed



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#### Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	16 mm² / 2.9 kg
	50 mm² / 9.5 kg
	70 mm²/10.4 kg
Result	Test passed

#### Environmental and real-life conditions

Needle-flame test	
Time of exposure	30 s
Result	Test passed
Oscillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long 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

Test passed

Shocks

Result

Specification	DIN EN 50155 (VDE 0115-200):2022-06
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
mbient conditions	
Ambient temperature (operation)	-60 °C 110 °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 %

#### Standards and regulations

Connection in acc. with standard	IEC 60947-7-1

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Mounting

Mounting type

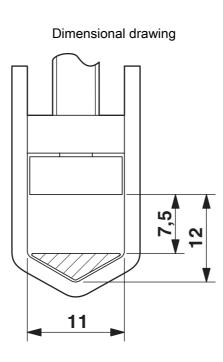
direct screw connection

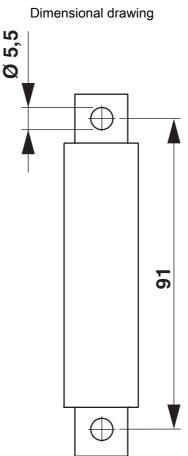
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Drawings



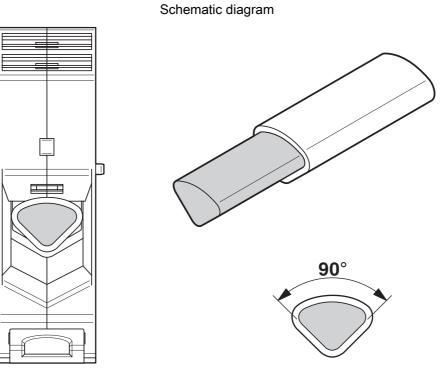


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Connecting aluminum cables. Further notes can be found in the download area

Circuit diagram





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### Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/3247019

III IECEX Approval ID: IECEX KEM 06.0029U
EXAPPROVALID: DEKRA 21UKEX0307U
CCC Approval ID: 2020322313000623

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### Classifications

#### ECLASS

	ECLASS-13.0	27250101			
E	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, 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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