

https://www.phoenixcontact.com/sg/products/3247051

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High-current terminal block, nom. voltage: 1000 V, nominal current: 192 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 70 mm², cross section: 16 mm² - 95 mm², 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/>
- · Low contact resistance of the contact surface due to ribbing
- · Tested for railway applications
- · Screw locking by means of spring-loaded elements in the clamping part

Commercial data

Item number	3247051
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BE1311
Catalog page	Page 191 (C-1-2019)
GTIN	4046356607247
Weight per piece (including packing)	165.04 g
Weight per piece (excluding packing)	151.9 g
Customs tariff number	85369010
Country of origin	CN

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Technical data

Product properties

Product type	High current terminal block		
Area of application	Railway industry		
	Machine building		
	Plant engineering		
Number of positions	1		
Number of connections	2		
Number of rows	1		
Potentials	1		
Insulation characteristics			
Overvoltage category			
Degree of pollution	3		
ectrical properties			
Rated surge voltage	8 kV		
Maximum power dissipation for nominal condition	6.27 W		
nnection data			
Number of connections per level	2		
Nominal cross section	70 mm²		
Level 1 above 1 below 1			
Screw thread	M8		
Tightening torque	8 10 Nm		
Stripping length	24 mm		
	A11		
Internal cylindrical gage Connection in acc. with standard	IEC 60947-7-1		
Conductor cross section rigid	16 mm ² 95 mm ²		
Cross section AWG			
Conductor cross section flexible	4 3/0 (converted acc. to IEC) 25 mm ² 70 mm ²		
Conductor cross section, flexible [AWG]	2 2/0 (converted acc. to IEC) 16 mm ² 70 mm ²		
Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve)	16 mm ² 70 mm ²		
	16 mm ² 25 mm ²		
2 conductors with same cross section, solid			
2 conductors with same cross section, flexible	16 mm ² 25 mm ² 16 mm ² 25 mm ²		
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	16 mm² 25 mm²		
Nominal current	192 A		
Maximum load current	192 A (with 70 mm ² conductor cross section)		
Nominal voltage	1000 V		
Note	Note: Product releases, connection cross sections and notes or connecting aluminum cables can be found in the download area		





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Nominal cross section	70 mm ²
lata	
ated data (ATEX/IECEx)	
Identification	ll 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1201934 VDE-ISS 6
List of bridges	/ FBI 2-20 N EX / 3213210
	/ FBI 3-20 N EX / 3213211
Bridge data	180 A (70 mm²)
Ex temperature increase	40 K (180 A / 70 mm²)
Rated voltage	690 V
Rated insulation voltage	630 V
output	(Permanent)
x level General	
Rated current	180 A
Maximum load current	180 A
Contact resistance	0.08 mΩ
	0.00 msz
x connection data General	
Torque range	8 Nm 10 Nm
Nominal cross section	70 mm ²
Rated cross section AWG	2/0
Connection capacity rigid	16 mm ² 95 mm ²
Connection capacity AWG	4 3/0
Connection capacity flexible	25 mm² 70 mm²
Connection capacity AWG	3 2/0
2 conductors with same cross section, solid	16 mm ² 25 mm ²
2 conductors with the same cross-section AWG rigid	43
2 conductors with same cross section, stranded	16 mm ² 25 mm ²
2 conductors with the same cross-section AWG flexible	4 3

Dimensions

Dimensional drawing	
Width	20.3 mm
Height	103.4 mm
Depth	80 mm
Hole diameter	5.5 mm



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Material 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
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

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 70 mm ²	8.4 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



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Result	Test passed	
Test for conductor damage and slackening		
Rotation speed	10 (+/- 2) rpm	
Revolutions	135	
Conductor cross section/weight	16 mm² / 2.9 kg	
	70 mm²/10.4 kg	
	95 mm²/14 kg	
Result	Test passed	

Environmental and real-life conditions

Connection in acc. with standard

Time of exposure	30 s
Result	Test passed
oscillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2022-06
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
Result	Test passed
hocks	
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 %

IEC 60947-7-1

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Mounting

Mounting type

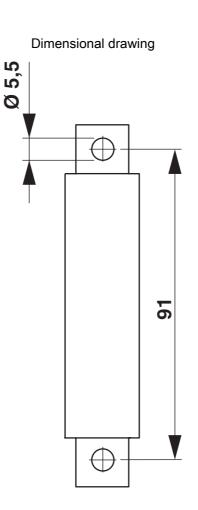
direct screw connection

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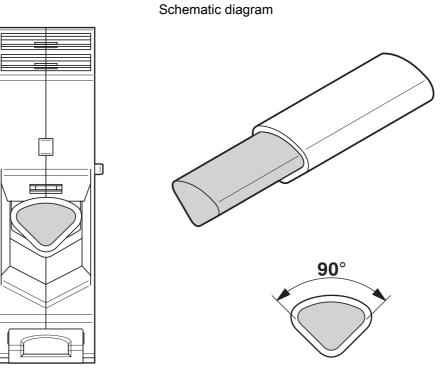
Drawings





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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/sg/products/3247051

CULus Recogni Approval ID: E60425	zed			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group C				
	1000 V	192 A	6 - 3/0	-
Use group E				
	1000 V	192 A	6 - 3/0	-

ازت التُوَلَيْ IECEx Approval ID: IECEx	SEV12.0008U			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Mounting on NS 32	690 V	180 A	-	25 - 70
Mounting on NS 35	880 V	180 A	-	25 - 70

ATEX Approval ID: SEV12ATE	K0168U			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Mounting on NS 32	690 V	180 A	-	25 - 70
Mounting on NS 35	880 V	180 A	-	25 - 70



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Classifications

ECLASS

	ECLASS-11.0	27141120	
	ECLASS-13.0	27250101	
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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