

3247063

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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 - 70 mm², mounting type: direct screw connection, color: blue

Your advantages

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

Commercial data

Item number	3247063
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE13
Product key	BE1311
GTIN	4046356733311
Weight per piece (including packing)	166.72 g
Weight per piece (excluding packing)	151.9 g
Customs tariff number	85369010
Country of origin	CN



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2 conductors with same cross section, solid2 conductors with same cross section, flexible

2 conductors with same cross section, flexible, with ferrule

Technical data

Notes

General	
Note	For a reliable contact of multi stranded conductors it is recommended to untwist multi stranded conductors.
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	III
Degree of pollution	3
Electrical properties	
Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	6.27 W
Connection 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
Internal cylindrical gage	A11
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	16 mm² 70 mm²
Cross section AWG	4 2/0 (converted acc. to IEC)
Conductor cross section flexible	25 mm² 70 mm²
Conductor cross section, flexible [AWG]	2 2/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	16 mm² 70 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	16 mm² 70 mm²

16 mm² ... 25 mm²

16 mm² ... 25 mm²

16 mm² ... 25 mm²



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without plastic sleeve	
Nominal current	192 A
Maximum load current	192 A (with 70 mm² conductor cross section)
Nominal voltage	1000 V
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.
Nominal cross section	70 mm²

Ex data

Rated	data	(ΔΤ	EY/		v١
Raieu	uala	(A)		ロロレロ	X)

Identification	
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 insulation voltage	630 V
output	(Permanent)

Ex level General

Rated voltage	690 V
Rated current	180 A
Maximum load current	180 A
Contact resistance	0.08 mΩ

Ex connection data General

Torque range	8 Nm 10 Nm
Nominal cross section	70 mm²
Rated cross section AWG	2/0
Connection capacity rigid	16 mm² 95 mm²
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 mm² 25 mm²
2 conductors with the same cross-section AWG rigid	4 3
2 conductors with same cross section, stranded	16 mm² 25 mm²
2 conductors with the same cross-section AWG flexible	4 3

Dimensions



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Dimensional drawing	55
Width	20.3 mm
Height	70.5 mm
Depth	80 mm
Hole diameter	5.5 mm

Material specifications

Color	blue (RAL 5015)
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 vo	ltage t	est
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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 mm²	8.4 kA
Result	Test passed

Power-frequency withstand voltage

Power-frequency withstand voltage		
	Test voltage setpoint	2.2 kV
	Result	Test passed



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Mechanical properties

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Open side panel	No	
Open side parier	INO	

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
Test for conductor damage and slackening	
Datation around	40 (1/ 2) mm

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

Needle-flame test

Test duration per axis

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

5 h

Test passed

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	3.12a

Shocks

Result

SHOCKS		
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	



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Ambient 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
Connection in acc. with standard	120 00347-7-1

Mounting

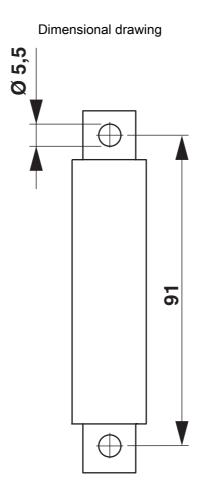
Mounting type	direct screw connection
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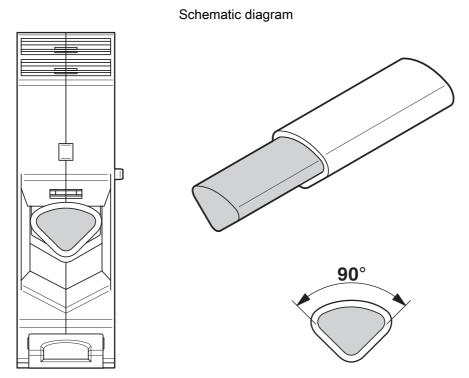
Drawings





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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/us/products/3247063

CULus Recognized Approval ID: E60425				
	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	-

II (IEĈEX	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: SEV12ATEX0168U				
	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

(11)	CCC Approval ID: 2020322313000623



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Classifications

ECLASS				
	ECLASS-13.0	27250101		
ETIM				
	ETIM 9.0	EC000897		

UNSPSC

UNSPSC 21.0 39121400



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Environmental product compliance

EU RoHS

Yes, No exemptions
EFUP-E
No hazardous substances above the limits
No substance above 0.1 wt%

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