

3009118

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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 mm², cross section: 16 mm² - 70 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, NS 35/15-2,3, 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
- · Screw locking by means of spring-loaded elements in the clamping part

Commercial data

Item number	3009118
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE13
Product key	BE1311
Catalog page	Page 189 (C-1-2019)
GTIN	4017918091644
Weight per piece (including packing)	120 g
Weight per piece (excluding packing)	113.4 g
Customs tariff number	85369010
Country of origin	IN



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Technical data

Notes

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Note	For a reliable contact of multi stranded conductors it is
	recommended to untwist multi stranded conductors.

Product properties

Number of positions 1 Number of connections 2	
N. observator	
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	4.73 W

Connection data

Number of connections per level	2
Nominal cross section	50 mm²
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 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)	25 mm² 50 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	25 mm² 50 mm²
2 conductors with same cross section, solid	10 mm² 16 mm²
2 conductors with same cross section, flexible	10 mm² 16 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	10 mm² 16 mm²
Nominal current	150 A
Maximum load current	150 A (with 50 mm² conductor cross section)
Nominal voltage	1000 V
Note	Note: Product releases, connection cross sections and notes on



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

Ex data

Rated data (ATEX/IECEx)

Identification	
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1205082 SZS 1,2X8,0 VDE
	1201659 E/AL-NS 32
	1201662 E/AL-NS 35
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)

Ex level General

Rated voltage	690 V
Rated current	133 A
Maximum load current	133 A
Contact resistance	0.1 mΩ

Ex connection data General

Torque range	6 Nm 8 Nm
Nominal cross section	50 mm²
Rated cross section AWG	1/0
Connection capacity rigid	16 mm² 50 mm²
Connection capacity AWG	6 1/0
Connection capacity flexible	25 mm² 50 mm²
Connection capacity AWG	4 1/0
2 conductors with same cross section, solid	10 mm² 16 mm²
2 conductors with the same cross-section AWG rigid	8 6
2 conductors with same cross section, stranded	10 mm² 16 mm²
2 conductors with the same cross-section AWG flexible	8 6

Dimensions

Dimensional drawing	
Width	20 mm



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Height	70.5 mm
Depth	76 mm
Depth on NS 32	81 mm
Depth on NS 35/15	83.5 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
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 mm²	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	



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DIN rail/fixing support	NS 32/NS 35		
Test force setpoint	10 N		
Result	Test passed		
est for conductor damage and slackening			
Rotation speed	10 (+/- 2) rpm		
Revolutions	10 (+/- 2) ipin 135		
Conductor cross section/weight	16 mm² / 2.9 kg		
Conductor cross scallor/ weight	50 mm² / 9.5 kg		
	70 mm²/10.4 kg		
Result	Test passed		
ronmental and real-life conditions			
Time of exposure	30 s		
Result	Test passed		
scillation/broadband noise			
Specification	DIN EN 50155 (VDE 0115-200):2018-05		
Spectrum	Long life test category 2, bogie-mounted		
Frequency	f ₁ = 5 Hz to f ₂ = 250 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		
ocks			
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		
nbient conditions			
	-60 °C 110 °C (Operating temperature range incl. self-heati for max. short-term operating temperature, see RTI Elec.)		
Ambient temperature (operation)	for max. short-term operating temperature, see RTI Elec.)		
Ambient temperature (operation) Ambient temperature (storage/transport) Ambient temperature (assembly)	-25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to		

30 % ... 70 %

Permissible humidity (storage/transport)



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Standards and regulations

	Connection in acc. with standard	IEC 60947-7-1
Мс	punting	
Mounting type	NS 35/7,5	
		NS 35/15
		NS 32
		NS 35/15-2,3



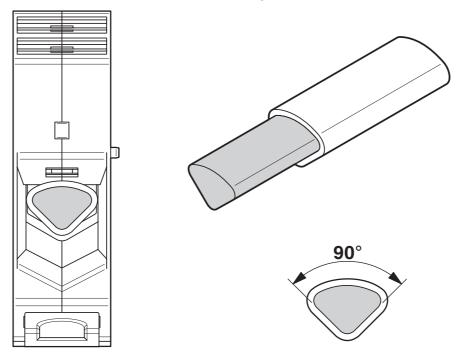
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Drawings

Dimensional drawing

Schematic diagram



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



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Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3009118

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	150 A	6 - 1/0	-
Use group C				
	600 V	150 A	6 - 1/0	-

cULus Recogni Approval ID: E60425				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	150 A	6 - 1/0	-
Multi-conductor connection	600 V	150 A	8 - 6	-
Use group C				
	600 V	150 A	6 - 1/0	-
Multi-conductor connection	600 V	150 A	8 - 6	-

Lloyds Receier	LR
Magaza.	Approval ID: LR2041789TA-02

VDE Zeichengenehmigung Approval ID: 40036368					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		1000 V	150 A	-	- 50

Hoyds Register	LR Approval ID: LR2420186TA

CB scrieme	IECEE CB Scheme Approval ID: DE1-62936_M1					
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		1000 V	150 A	-	- 50	



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Approval ID: TAE00001CT



ATEX

Approval ID: KEMA98ATEX1786U



EAC Ex

Approval ID: KZ 7500525010101950



IECEx

Approval ID: IECEx KEM 06.0029U



CCC

Approval ID: 2020322313000623



UKCA-EX

Approval ID: DEKRA 21UKEX0307U

H	Comp	Hazloc	CA	us.
OL	COLLID	Hazioc	\sim	US

Approval ID: III IIS CA I 192008

Approval ID: UL US CA L 192998				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	600 V	150 A	6 - 1/0	-



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Classifications

UNSPSC 21.0

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	ECLASS-13.0	27250101	
ΕΊ	ТМ		
	ETIM 9.0	EC000897	
UNSPSC			

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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%
EF3.0 Climate Change	
CO2e kg	0.809 kg CO2e

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com