

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	0100*
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

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

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



Width

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	connecting aluminum cables can be found in the download are
Nominal cross section	50 mm²
data	
atad data (ATEV/IFCE)	
ated data (ATEX/IECEx)	® II 2 GD Ex eb IIC Gb
	-60 °C 110 °C
Operating temperature range Ex-certified accessories	1205082 SZS 1,2X8,0 VDE
Ex-Certified accessories	1201659 E/AL-NS 32
	1201662 E/AL-NS 35
List of bridges	Fixed bridge / FBI 2-20-EX / 0201113
List of bridges	
Bridge data	Fixed bridge / FBI 3-20-EX / 0201812 130.5 A (50 mm²)
	40 K (146.5 A / 50 mm²)
Ex temperature increase Rated voltage	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)
output	(i emanent)
level General	
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 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
ensions	
Dimensional drawing	

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	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 mm²	6 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

$NA \sim c$	hania	al data
IVIEC	Hallic	ai uata

Open side panel	No
open side parier	110

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	135
Conductor cross section/weight	16 mm² / 2.9 kg
	50 mm² / 9.5 kg
	70 mm²/10.4 kg
Result	Test passed
ironmental and real-life conditions	
eedle-flame test	00.
Time of exposure	30 s
Result	Test passed
scillation/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
nocks	
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	
Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heatin 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 %



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Standards and regulations

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



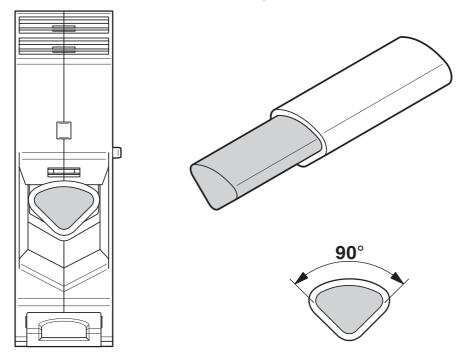
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Drawings

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/sg/products/3009118

CSA Approva	al 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 Recognized 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	LR
VERBEEL	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

Lloyds	LR			
Register	LR Approval ID: LR2420186TA			

DNV		
Approval ID: TAE00001CT		

CB scheme	IECEE CB Scheme Approval ID: DE1-62936_M1				
	Nominal	l voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²



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1000 V 150 A - - - 50

★ ATEX Approval ID: KEMA98ATEX1786U

■ EAC Ex Approval ID: KZ 7500525010101950

■ IECEX Approval ID: IECEx KEM 06.0029U

■ CCC Approval ID: 2020322313000623

UL Comp Hazloc CA US 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	-		

cULus Recognized

UKCA-EX

Approval ID: DEKRA 21UKEX0307U

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Classifications

ECLASS

	ECLASS-11.0	27141120	
	ECLASS-13.0	27250101	
ETIM			
	ETIM 9.0	EC000897	
1.18	NSPSC		
UI	NSPSC		
	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%
EF3.0 Climate Change	
CO2e kg	0.809 kg CO2e

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