

3010123

https://www.phoenixcontact.com/us/products/3010123

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



High-current terminal block, nom. voltage: 1000 V, nominal current: 309 A, number of connections: 2, number of positions: 1, connection method: Screw connection, cross section: 35 mm^2 - 150 mm^2 , mounting type: NS 35/15, NS 32, color: blue

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	3010123
Packing unit	3 pc
Minimum order quantity	3 pc
Sales key	BE13
Product key	BE1311
Catalog page	Page 197 (C-1-2019)
GTIN	4017918091859
Weight per piece (including packing)	380 g
Weight per piece (excluding packing)	346.333 g
Customs tariff number	85369010
Country of origin	IN



3010123

https://www.phoenixcontact.com/us/products/3010123

Technical data

Product properties

Product type	High current terminal block
Number of positions	1
Number of connections	2
Number of rows	1
Potentials	1
nsulation characteristics	
Overveltage estagen	
Overvoltage category	· · ·

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	9.55 W

Connection data

Nb f f l l	0
Number of connections per level	2
Nominal cross section	150 mm²
Screw thread	M10
Note	Screws with hexagonal socket
Tightening torque	25 30 Nm
Stripping length	40 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	35 mm² 150 mm²
Cross section AWG	1/0 250 kcmil (converted acc. to IEC)
Conductor cross section flexible	50 mm² 150 mm²
Conductor cross section, flexible [AWG]	1/0 250 kcmil (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	50 mm² 150 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	50 mm² 150 mm²
Cross-section with insertion bridge, rigid	150 mm²
Cross-section with insertion bridge, flexible	120 mm²
2 conductors with same cross section, solid	25 mm² 50 mm²
2 conductors with same cross section, flexible	35 mm² 50 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	25 mm² 50 mm²
Nominal current	309 A
Maximum load current	309 A (with 150 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.

Ex data



https://www.phoenixcontact.com/us/products/3010123



Rated data (ATEX/IECEx)

Identification	□ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1201947 VDE-ISS 8
	1201659 E/AL-NS 32
	1201662 E/AL-NS 35
List of bridges	Insertion bridge / EB 2-31/UKH / 0201388
	Insertion bridge / EB 3-31/UKH / 0201391
Bridge data	195.5 A / 150 mm²
Ex temperature increase	40 K (281.5 A / 150 mm²)
Rated voltage	1100 V
at bridging with insertion bridge	880 V
Rated insulation voltage	1000 V
output	(Permanent)

Ex level General

Rated current	256 A
Maximum load current	256 A
Contact resistance	0.06 mΩ

Ex connection data General

Torque range	25 Nm 30 Nm
Nominal cross section	150 mm²
Rated cross section AWG	300 kcmil
Connection capacity rigid	35 mm² 150 mm²
Connection capacity AWG	2 300 kcmil
Connection capacity flexible	50 mm² 150 mm²
Connection capacity AWG	1/0 300 kcmil
2 conductors with same cross section, solid	25 mm² 50 mm²
2 conductors with the same cross-section AWG rigid	4 1/0
2 conductors with same cross section, stranded	35 mm² 50 mm²
2 conductors with the same cross-section AWG flexible	2 1/0

Dimensions

Dimensional drawing	19.5 _
Width	31 mm
Height	100 mm
Depth	107.3 mm
Depth on NS 32	116 mm
Depth on NS 35/15	118.5 mm



https://www.phoenixcontact.com/us/products/3010123



Material specifications

Color	blue
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 passed	
Increase in temperature ≤ 45 K	
Test passed	
18 kA	
Test passed	
2.2 kV	
Test passed	
	Increase in temperature ≤ 45 K Test passed 18 kA Test passed 2.2 kV

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
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 (+/- 2) rpm
Revolutions	135



3010123

https://www.phoenixcontact.com/us/products/3010123

Conductor cross section/weight	35 mm² / 6.8 kg
	50 mm² / 9.5 kg
	150 mm² / 15 kg
Result	Test passed
ironmental and real-life conditions	
monification real life conditions	
eedle-flame test	
Time of exposure	30 s
Result	Test passed
scillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service 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
nocks	
Specification	DIN EN 50155 (VDE 0115-200):2018-05
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 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, no longer than 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 %
ndards and regulations	
Connection in acc. with standard	IEC 60947-7-1
unting	
Mounting type	NS 35/15
	110 00/10



3010123

https://www.phoenixcontact.com/us/products/3010123

Classifications

ECLASS

	ECLASS-11.0	27141120		
	ECLASS-13.0	27250101		
ETIM				
	ETIM 9.0	EC000897		
UNSPSC				
	UNSPSC 21.0	39121400		



https://www.phoenixcontact.com/us/products/3010123



Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Phoenix Contact 2024 @ - all rights reserved https://www.phoenixcontact.com

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