

https://www.phoenixcontact.com/sg/products/3251201



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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 309 A, number of connections: 2, connection method: Screw connection, Rated cross section: 150 mm², cross section: 35 mm² - 150 mm², mounting type: NS 35/15, NS 32, color: dark 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	3251201	
Packing unit	3 pc	
Minimum order quantity	3 pc	
Sales key	****	
Product key	BEK311	
GTIN	4046356951074	
Weight per piece (including packing)	383.1 g	
Weight per piece (excluding packing)	363.28 g	
Customs tariff number	85369010	
Country of origin	IN	



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Technical data

Product properties

Product type	High current terminal block
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	9.55 W

Connection data

Number of connections per level	2	
Nominal cross section	150 mm²	
Rated cross section AWG	1/0	
Screw thread	M10	
Note	Screws with hexagonal socket	
Tightening torque	25 30 Nm	
Stripping length	40 mm	
Internal cylindrical gage	B14	
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	
Nominal cross section	150 mm²	

Dimensions



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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

Material specifications

Color	traffic grey B (RAL 7043)
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
	Test passed
Short-time withstand current 150 mm²	18 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data



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No
Test passed
NS 32/NS 35
15 N
Test passed
100, passou
10 (1 0)
10 (+/- 2) rpm
135
35 mm² / 6.8 kg
50 mm² / 9.5 kg
150 mm² / 15 kg
Test passed
30 s Test passed
1301 passes
DIN EN 50155 (VDE 0115-200):2018-05
Long life test category 2, bogie-mounted
$f_1 = 5$ Hz to $f_2 = 250$ Hz
6.12 (m/s²)²/Hz
3.12g
5 h
X-, Y- and Z-axis
Test passed
Half-sine
30g
18 ms
3
X-, Y- and Z-axis (pos. and neg.)
Test passed



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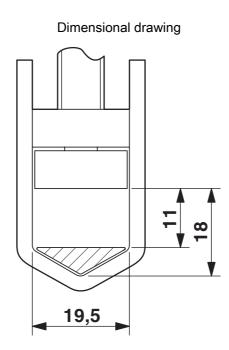
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C
Permissible humidity (operation)	20 % 90 %
Permissible humidity (storage/transport)	30 % 70 %
candards and regulations Connection in acc. with standard	IEC 60947-7-1
ounting	
Mounting type	NS 35/15
	NS 32



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Drawings



Circuit diagram





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Approvals

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Approval ID: EACKZ 08593

cULus Recogn Approval ID: E6042				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	285 A	2 - 300	-
Multi-conductor connection	600 V	285 A	4 - 1/0	-
Use group C				
	600 V	285 A	2 - 300	-
Multi-conductor connection	600 V	285 A	4 - 1/0	-



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Classifications

ECLASS

	ECLASS-11.0	27141120	
	ECLASS-13.0	27250101	
ETIM			
LTIW			
	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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