

https://www.phoenixcontact.com/us/products/3009053

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High-current terminal block, with Allen screws, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 2, number of positions: 1, connection method: Screw connection, cross section: 16  $\text{mm}^2$  - 70  $\text{mm}^2$ , 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	3009053
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE13
Product key	BE1311
GTIN	4017918091613
Weight per piece (including packing)	122.65 g
Weight per piece (excluding packing)	121.35 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 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
Level 1 above 1 below 1	
Screw thread	M6
	6 8 Nm
Tightening torque	24 mm
Stripping length	B10
Internal cylindrical gage	16 mm <sup>2</sup> 70 mm <sup>2</sup>
Conductor cross section rigid	
Cross section AWG	4 2/0 (converted acc. to IEC)
Conductor cross section flexible	25 mm <sup>2</sup> 50 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	2 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	25 mm <sup>2</sup> 50 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	25 mm <sup>2</sup> 50 mm <sup>2</sup>
2 conductors with same cross section, solid	10 mm <sup>2</sup> 16 mm <sup>2</sup>
2 conductors with same cross section, flexible	10 mm <sup>2</sup> 16 mm <sup>2</sup>
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 mm <sup>2</sup> conductor cross section)
Nominal voltage	1000 V

### Ex data

Rated data (ATEX/IECEx)		
Identification	🚱 II 2 GD Ex eb IIC Gb	
Operating temperature range	-60 °C 110 °C	

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Ex-certified accessories	1203343 VDE-ISS 5
	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)
Rated voltage	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)
Ex level General	
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 mm <sup>2</sup> 16 mm <sup>2</sup>

#### Dimensions

Width	20 mm
Height	70.5 mm
Depth on NS 32	81 mm
Depth on NS 35/15	83.5 mm

#### Material specifications

Color	gray
Flammability rating according to UL 94	VO
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

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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

Test voltage setpoint	9.8 kV
Result	Test passed
emperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 50 mm <sup>2</sup>	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	
DIN rail/fixing support	NS 32/NS 35
Test force setpoint	10 N
Result	Test passed
Test for conductor damage and slackening Rotation speed	10 rpm
Test for conductor damage and slackening Rotation speed Revolutions	10 rpm 135
Rotation speed	
Rotation speed Revolutions	135
Rotation speed Revolutions	135 25 mm² / 4.5 kg



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#### Environmental and real-life conditions

#### Needle-flame test

Time of exposure	30 s
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 %
unting	
Mounting type	NS 35/7,5
	NS 35/15
	NS 32

NS 35/15-2,3

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### Classifications

#### ECLASS

	ECLASS-11.0	27141120	
	ECLASS-13.0	27250101	
E٦	IM		
	ETIM 9.0	EC000897	
UNSPSC			
	UNSPSC 21.0	39121400	

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### Environmental product compliance

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

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