

https://www.phoenixcontact.com/us/products/3049505



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High-current connector, nom. voltage: 1000 V, nominal current: 269 A, number of connections: 1, connection method: Bolt connection, Rated cross section: 120 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- · Comprehensive, supplementary accessories
- · For connecting up to four conductors

Commercial data

Item number	3049505
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE42
Product key	BE4211
Catalog page	Page 397 (C-1-2019)
GTIN	4046356184090
Weight per piece (including packing)	122.35 g
Weight per piece (excluding packing)	98.27 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Product properties

Product type	Bolt connection terminal block
Product family	HV
Pitch	34 mm
Number of connections	1
Number of rows	1
Potentials	1
Data management status Article revision	03
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
ectrical properties	

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	8.68 W

Connection data

Number of connections per level	1
Nominal cross section	120 mm²
Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Connection in acc. with standard	IEC 60947-7-1
Nominal current	269 A
Maximum load current	269 A (with 120 mm² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	120 mm²

Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	10 mm² 120 mm²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	13 mm
Width	24 mm
Bolt diameter	12 mm
Screw thread	M12
Tightening torque	14 31 Nm
Connection in acc. with standard	DIN 46235:1983-07
Cross section	25 mm² 95 mm²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	13 mm



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Width	32 mm
Bolt diameter	12 mm
Screw thread	M12
Tightening torque	14 31 Nm

Dimensions

Width	32 mm
End cover width	2 mm
Height	64 mm
Depth	74.6 mm
Depth on NS 35/7,5	75.3 mm
Depth on NS 35/15	82.8 mm
Bolt length	41 mm
Pitch	34 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 120 mm²	14.4 kA	
Result	Test passed	

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed



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Mechanical properties

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Open side panel	No
Open side parier	140

Mechanical tests

Mechanical strength

Result	Test passed		
Attachment on the carrier			
DIN rail/fixing support	NS 35		
Test force setpoint	15 N		
Result	Test passed		

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
ASD level	0.964 (m/s²)²/Hz
Acceleration	5.72g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
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

Ambient 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



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Permissible humidity (operation)	20 % 90 %		
Permissible humidity (storage/transport)	30 % 70 %		
Standards and regulations			
Connection in acc. with standard	IEC 60947-7-1		
Mounting			
Mounting type	NS 35/7,5		
	NS 35/15		
Thread type	()		



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3049505



CSA

Approval ID: 13631

, 17	cUL Recognized Approval ID: FILE E 6042	25			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use grou	ір С				
		1000 V	269 A	-	-

EHE	EAC
LIIL	Approval ID

Approval ID: RU C-DE.BL08.B.00540



CSA

Approval ID: 13631



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
ΕT	ТІМ	
	ETIM 9.0	EC000897
UN	ISPSC	

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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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