3049547

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High-current connector, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: Bolt connection, Rated cross section: 35 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- · Comprehensive range of accessories for safe and user-friendly wiring of conductors up to 120 mm²
- Two different partition plates can be used for the range of single and double-bolt terminal blocks
- 2 and 3-pos. connection rails can be used for potential distribution
- Secure connection of up to 4 conductors with cable lugs according to DIN 46234, 46235, and 46237 in a small amount of space
- · Spring washers are used to prevent hexagonal nuts from loosening
- · The feed-through window provided in the partition plates can be easily removed for mounting the connection rails

Commercial data

Item number	3049547
Packing unit	25 pc
Minimum order quantity	25 pc
Sales key	BE42
Product key	BE4212
Catalog page	Page 395 (C-1-2019)
GTIN	4046356310291
Weight per piece (including packing)	77 g
Weight per piece (excluding packing)	74.027 g
Customs tariff number	85369010
Country of origin	IN

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Technical data

Product properties

Product type	Bolt connection terminal block
Product family	HV
Pitch	18 mm
Number of connections	2
Number of rows	1
Potentials	1
Data management status	
Article revision	02
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	4.06 W

Connection data

Number of connections per level	2
Nominal cross section	35 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	125 A
Maximum load current	125 A (with 35 mm ² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	35 mm²

Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	2.5 mm ² 35 mm ²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	6.5 mm
Width	15 mm
Bolt length	22.5 mm
Bolt diameter	6 mm
Screw thread	M6
Tightening torque	3 6 Nm
Connection in acc. with standard	DIN 46235:1983-07
Cross section	6 mm² 25 mm²
Cross section range AWG	(converted acc. to IEC)

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Hole diameter	6.4 mm
Width	14 mm
Bolt length	22.5 mm
Bolt diameter	6 mm
Screw thread	M6
Tightening torque	3 6 Nm
Connection in acc. with standard	DIN 46237:1970-07
Cross section	2.5 mm ² 6 mm ²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	6.5 mm
Width	11 mm
Bolt length	22.5 mm
Bolt diameter	6 mm
Screw thread	M6
Tightening torque	3 6 Nm

Dimensions

Width	16 mm
End cover width	2 mm
Height	64 mm
Depth	56.1 mm
Depth on NS 35/7,5	56.1 mm
Depth on NS 35/15	63.6 mm
Bolt length	17 mm
Pitch	18 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	VO
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
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Test voltage setpoint	9.8 kV
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Result	Test passed
Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 35 mm ²	4.2 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	2.2 kV
Result	Test passed
Mechanical data	No
Mechanical data Open side panel	No
	No
Open side panel	No
Open side panel	No Test passed
Open side panel echanical tests Mechanical strength Result	
Open side panel echanical tests Mechanical strength Result Attachment on the carrier	
Open side panel echanical tests Mechanical strength Result	Test passed
Open side panel echanical tests Mechanical strength Result Attachment on the carrier DIN rail/fixing support	Test passed NS 35
Open side panel echanical tests Mechanical strength Result Attachment on the carrier DIN rail/fixing support Test force setpoint Result	Test passed NS 35 10 N
Open side panel echanical tests Mechanical strength Result Attachment on the carrier DIN rail/fixing support Test force setpoint	Test passed NS 35 10 N
Open side panel echanical tests Mechanical strength Result Attachment on the carrier DIN rail/fixing support Test force setpoint Result	Test passed NS 35 10 N
Open side panel echanical tests Mechanical strength Result Attachment on the carrier DIN rail/fixing support Test force setpoint Result	Test passed NS 35 10 N

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):2008-03
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms

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

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Drawings

Circuit diagram



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Application drawing



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Approvals

V: To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3049547





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



CSA Approval ID: 13631

cULus Recognized

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Classifications

ECLASS

	ECLASS-11.0	27141120		
	ECLASS-13.0	27250101		
ETIM				
	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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