

https://www.phoenixcontact.com/us/products/3049547



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 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
GTIN	4046356310291
Weight per piece (including packing)	77 g
Weight per piece (excluding packing)	66.232 g
Customs tariff number	85369010
Country of origin	IN



https://www.phoenixcontact.com/us/products/3049547



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
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
Connection method	Bolt connection
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 mm² conductor cross-section)
Nominal voltage	1000 V
Nominal cross section	35 mm²

Cable lug connection DIN 46234:1980-03

045.0 149 00001.0 2 1020 1000 00	
Connection in acc. with standard	DIN 46234:1980-03
Cross section	2.5 mm² 35 mm²
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)
Hole diameter	6.4 mm
Width	14 mm



https://www.phoenixcontact.com/us/products/3049547



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 mm² 6 mm²
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	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 voltage setpoint	9.8 kV
Result	Test passed



https://www.phoenixcontact.com/us/products/3049547



_			
IΔm	naratı	Ira_rica	tact
1 6111	ρσιαιι	ıre-rise	ισοι

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 35 mm²	4.2 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	2.2 kV
Result	Test nassed

Mechanical properties

Mechanical data

Open side panel	No

Mechanical tests

Mechanical strength

Result	Test passed			
Attachment on the carrier				
DIN rail/fixing support	NS 35			
Test force setpoint	10 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			

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long 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
Number of shocks per direction	3



https://www.phoenixcontact.com/us/products/3049547



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, 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 %
tandards and regulations	
Connection in acc. with standard	IEC 60947-7-1
ounting	
Mounting type	NS 35/7,5
	NS 35/15

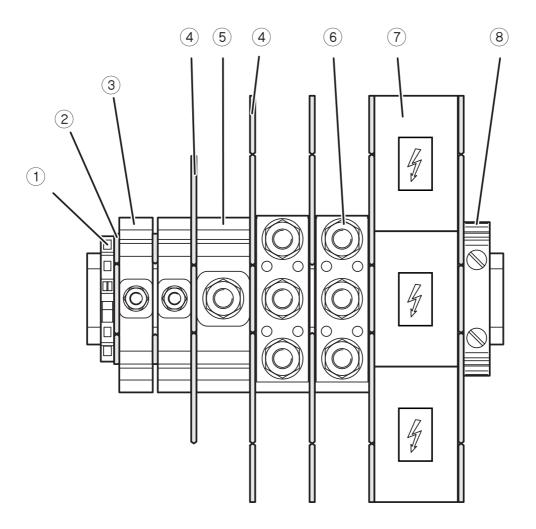
3049547

https://www.phoenixcontact.com/us/products/3049547



Drawings

Application drawing





3049547

https://www.phoenixcontact.com/us/products/3049547

Circuit diagram





https://www.phoenixcontact.com/us/products/3049547



Approvals

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



CSA

Approval ID: 13631

. 511	cUL Recognized Approval ID: FILE E 60425	5			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
С					
		1000 V	125 A	-	-

UL Recognized Approval ID: FILE E 60425				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
F				
	1000 V	125 A	-	-
Е				
	1000 V	125 A	-	-

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



CSA

Approval ID: 13631



https://www.phoenixcontact.com/us/products/3049547



Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27250101
	ECLASS-15.0	27250101
ET	TIM	
	ETIM 9.0	EC000897
UN	ISPSC	

39121400



https://www.phoenixcontact.com/us/products/3049547



Environmental product compliance

EU RoHS

Lettorie				
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%			

Phoenix Contact 2025 @ - 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