

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



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: 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
Note	Made to order (non-returnable)
Sales key	0100*
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



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



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	
Insulation characteristics		
Overvoltage category	III	
Degree of pollution	3	

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
Width	32 mm
Bolt diameter	12 mm
Screw thread	M12



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



	14 31 Nm
mensions	
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
aterial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I 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
ectrical tests Surge voltage test Test voltage setpoint Result	9.8 kV Test passed
Surge voltage test Test voltage setpoint Result	9.8 kV Test passed
Surge voltage test Test voltage setpoint	
Surge voltage test Test voltage setpoint Result Temperature-rise test	Test passed
Surge voltage test Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test	Test passed Increase in temperature ≤ 45 K
Surge voltage test Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result	Test passed Increase in temperature ≤ 45 K Test passed
Surge voltage test Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 120 mm² Result	Test passed Increase in temperature ≤ 45 K Test passed 14.4 kA
Surge voltage test Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 120 mm²	Test passed Increase in temperature ≤ 45 K Test passed 14.4 kA



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



Open side panel	No
echanical tests	
Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	15 N
Result	Test passed
nvironmental 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, 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 %

Standards and regulations



3049505

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

	Connection in acc. with standard	IEC 60947-7-1
Mounting		
	Mounting type	NS 35/7,5
		NS 35/15



3049505

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

Approvals

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



Approval ID: 13631

CUL Recognized Approval ID: FILE E 60425				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group C				
	1000 V	269 A	-	-

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

CSA

Approval ID: 13631



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



Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
ET	IM	
	ETIM 9.0	EC000897
UN	ISPSC	

39121400



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



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%	

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT SEA Pte. Ltd. 105 Eunos Avenue 3, #04-00 Singapore 409836 +65 6228 4900 marketing@phoenixcontact.com.sg