

1055644

https://www.phoenixcontact.com/pc/products/1055644

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High-current connector, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 2, connection method: Bolt connection, Rated cross section: 50 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- · HFR nut screw locking
- · Conical washer CS

Commercial data

Item number	1055644
Packing unit	25 pc
Minimum order quantity	25 pc
Product key	BE4212
GTIN	4055626692753
Weight per piece (including packing)	142.552 g
Weight per piece (excluding packing)	142.552 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Notes

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Note	The rated insulation voltage applies to insulated cable lugs acc. DIN 46237:1970-07 and for uninsulated cable lugs acc. DIN 46234:1980-03 with shrink sleeve.
	The rated insulation voltage applies to insulated cable lugs acc. DIN 46237:1970-07 and for uninsulated cable lugs acc. DIN 46234:1980-03 with shrink sleeve. When using uninsulated cable lugs with shrink sleeve the min. required air clearances and creepage distances have to be ensured by the enduser.
	The rated insulation voltage applies to insulated cable lugs acc. to DIN 46237:1970-07 and for uninsulated cable lugs acc. to DIN 46234:1980-03 with path extension.

Product properties

Product type	Bolt connection terminal block
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	50 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	150 A
Maximum load current	150 A
Nominal voltage	1000 V
Nominal cross section	50 mm²
Connection in acc. with standard	NF F61-017
Maximum total current	101 A
Nominal voltage	1000 V
Nominal cross section	25 mm²

Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03



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Cross section	2.5 mm ² 50 mm ²
Cross section range AWG	12 2 (converted acc. to IEC)
Hole diameter	8.4 mm
Width	18 mm
Bolt diameter	8 mm
Screw thread	M8
Tightening torque	14.40 Nm
Connection in acc. with standard	DIN 46235:1983-07
Cross section	16 mm² 35 mm²
Cross section range AWG	6 2 (converted acc. to IEC)
Hole diameter	8.4 mm
Width	20 mm
Bolt diameter	8 mm
Screw thread	M8
Tightening torque	14.40 Nm
Connection in acc. with standard	DIN 46237:1970-07
Cross section	2.5 mm² 6 mm²
Cross section range AWG	12 8 (converted acc. to IEC)
Hole diameter	8.4 mm
Width	14 mm
Bolt diameter	8 mm
Screw thread	M8
Tightening torque	14.40 Nm
Connection in acc. with standard	NF F00-363:1995-12-01
Cross section	50 mm²
Additional text	The stripping length is based on the specifications of the cable lug manufacturer.
Cross section range AWG	(converted acc. to IEC)
Bolt diameter	6 mm
Screw thread	M8
Tightening torque	14.40 Nm
Connection in acc. with standard	NF F00-363
Cross section	0.5 mm² 25 mm²
Additional text	Release list on request
Cross section range AWG	(converted acc. to IEC)

Dimensions

Width	21 mm
Height	68 mm
Depth	65.1 mm
Depth on NS 35/7,5	65.8 mm
Depth on NS 35/15	73.3 mm
Bolt length	32.5 mm



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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 passed
Increase in temperature ≤ 45 K
Test passed
6 kA
Test passed
2.2 kV
Test passed

Mechanical properties

Mechanical data

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Mechanical tests

Mechanical strength

Result	Test passed
Attachment on the carrier	
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	50 mm² / 9.5 kg



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Result	Test passed
ronmental and real-life conditions	
eedle-flame test	
Time of exposure	30 s
Result	Test passed
	1 oct passoci
scillation/broadband noise	DIV 5V 50 55 0 05 0 0 000 000
Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Service life test category 2, bogie-mounted
Frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
nocks	
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed
nbient conditions	
	-60 °C 110 °C (Operating temperature range incl. self-heating
Ambient temperature (operation)	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 (accombly)	
Ambient temperature (assembly) Ambient temperature (actuation)	-5 °C 70 °C -5 °C 70 °C
· · · · · · · · · · · · · · · · · · ·	20 % 90 %
Permissible humidity (operation) Permissible humidity (storage/transport)	30 % 70 %
remissible number (storage/transport)	30 % 10 %
ndards and regulations	
Connection in acc. with standard	IEC 60947-7-1
	NF F61-017
nting	
	NS 25/7 5
Mounting type	NS 35/7,5
	NS 35/15



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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1055644



cULus Recognized

Approval ID: E60425

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group C				
	1000 V	150 A	14 - 1/0	-

cULus Recognized
Approval ID: E60425



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27141120			
	ECLASS-13.0	27250101			
ETIM					
	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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