

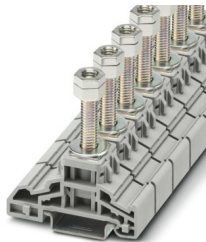
# HV M8/1 NFF - High-current connector



1056837

<https://www.phoenixcontact.com/gb/products/1056837>

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High-current connector, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 1, connection method: Bolt connection, Rated cross section: 50 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Comprehensive, supplementary accessories
- Conical washer CS
- HFR nut screw locking

## Commercial data

Item number	1056837
Packing unit	25 pc
Minimum order quantity	25 pc
Sales key	BE4211
Product key	BE4211
GTIN	4055626697840
Weight per piece (including packing)	55.598 g
Weight per piece (excluding packing)	52.861 g
Country of origin	CN

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## Technical data

### Product properties

Product type	Bolt connection terminal block
Product family	HV
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	4.73 W

### Connection data

Number of connections per level	1
Nominal cross section	50 mm <sup>2</sup>
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 mm <sup>2</sup>
Connection in acc. with standard	NF F61-017
Maximum total current	150 A
Nominal voltage	1000 V
Nominal cross section	50 mm <sup>2</sup>

### Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	2.5 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Cross section range AWG	12 ... 2 (converted acc. to IEC)
Hole diameter	8.4 mm
Width	18 mm
Bolt length	30.5 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 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Cross section range AWG	6 ... 2 (converted acc. to IEC)

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Hole diameter	8.4 mm
Width	20 mm
Bolt length	30.5 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 length	30.5 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	10 mm² ... 50 mm²
Additional text	Release list on request
Cross section range AWG	(converted acc. to IEC)

## Dimensions

Width	21 mm
Height	64 mm
Depth	63.5 mm
Depth on NS 35/7,5	66 mm
Depth on NS 35/15	73.5 mm
Bolt length	31.5 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
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

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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

## Mechanical properties

### Mechanical data

Open side panel	No
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## Environmental and real-life conditions

### Oscillation/broadband noise

Specification	IEC 61373:2010-05
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	$30.6 \text{ m/s}^2$
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Specification	IEC 61373:2010-05
Pulse shape	Half-sine
Acceleration	$300 \text{ m/s}^2$
Shock duration	18 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

Connection in acc. with standard	IEC 60947-7-1
	NF F61-017

## Mounting

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Mounting type	NS 35/7,5
	NS 35/15


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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1056837>



**cULus Recognized**  
Approval ID: E60425

	<b>CSA</b> Approval ID: 13631			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group C				
	1000 V	150 A	14 - 1/0	-



**cULus Recognized**  
Approval ID: E60425

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## Classifications

### ECLASS

ECLASS-13.0	27250101
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### ETIM

ETIM 9.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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