

1056836

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High-current connector, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 1, connection method: Bolt connection, Rated cross section: 35 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	1056836
Packing unit	25 pc
Minimum order quantity	25 pc
Sales key	****
Product key	BE4211
GTIN	4055626698113
Weight per piece (including packing)	34.512 g
Weight per piece (excluding packing)	25.86 g
Customs tariff number	85369010
Country of origin	CN



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## Technical data

## Product properties

Product type	Bolt connection terminal block
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	4.06 W

### Connection data

Number of connections per level	1
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
Nominal voltage	1000 V
Nominal cross section	35 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
Cross section	2.5 mm² 35 mm²
Cross section range AWG	14 2 (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	8.00 Nm
Connection in acc. with standard	DIN 46235:1983-07
Cross section	6 mm² 35 mm²
Cross section range AWG	10 2 (converted acc. to IEC)
Hole diameter	6.5 mm



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Width	14 mm
Bolt length	22.5 mm
Bolt diameter	6 mm
Screw thread	M6
Tightening torque	8.00 Nm
Connection in acc. with standard	DIN 46237:1970-07
Cross section	2.5 mm² 6 mm²
Cross section range AWG	14 10 (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	8.00 Nm
Connection in acc. with standard	NF F00-363:1995-12-01
Cross section	25 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	M6
Tightening torque	8.00 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	16 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	22.5 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



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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

#### Electrical tests

#### Surge voltage test

Result	Test passed
Temperature-rise test	
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 passed

## Mechanical properties

#### Mechanical data

Open side panel	No
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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
Rotation speed Revolutions	10 (+/- 2) rpm 135
·	

#### Environmental and real-life conditions

#### Needle-flame test

Spectrum

Time of exposure	30 s	
Result	Test passed	
Oscillation/broadband noise		
Specification	DIN EN 50155 (VDE 0115-200):2022-06	

Service life test category 2, bogie-mounted



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Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
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  Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heatin 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 %
ndards and regulations	
Connection in acc. with standard	IEC 60947-7-1
	NF F61-017
ınting	
Mounting type	NS 35/7,5
	NS 35/15



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## **Approvals**

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	CULus Recognized Approval ID: E60425			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group C				
	1000 V	125 A	14 - 1	-
Use group F				
	1000 V	125 A	14 - 1	-
Use group E				
	1000 V	125 A	14 - 1	-

CSA Approval ID: 13631				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group C				
	1000 V	125 A	14 - 1	-



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## Classifications

UNSPSC 21.0

### **ECLASS**

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

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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