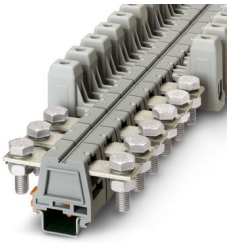
UHV 50-AS/AS - High-current connector

2130017

https://www.phoenixcontact.com/us/products/2130017

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The figure shows a combination of versions UHV 50-AS/AS, UHV 50-KH/AS and UHV 50-KH/KH

High-current connector with bolt connection, cross section: 25 mm^2 ... 50 mm^2, AWG: 6 ... 1/0, width: 32 mm, color: gray

Your advantages

- The comprehensive range of accessories, such as the connection rail for cross connection, ensures safe and user-friendly wiring of conductors up to 240 mm²
- Versions are available with a cable lug or direct connection and there is a mixed version of both connection methods
- The UHV ... high-current connectors are available in several versions

Commercial data

Item number	2130017
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BE04
Product key	BE4112
GTIN	4017918052799
Weight per piece (including packing)	165.96 g
Weight per piece (excluding packing)	165.96 g
Customs tariff number	85369010
Country of origin	IN

Technical data

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

Connection data

Number of connections per level	2
Nominal cross section	50 mm²

1 level

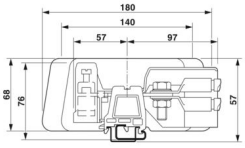
Connection method	Bolt connection
Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Busbar	20 mm x 3 mm
Connection in acc. with standard	IEC 60947-7-1
Nominal cross section	50 mm²
Nominal current	150 A
Maximum load current	150 A (with 50 mm² conductor cross-section)
Nominal voltage	1000 V

Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	6 mm² ... 50 mm²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	10.5 mm
Width	18 mm
Bolt diameter	10 mm
Screw thread	M10
Tightening torque	25 ... 30 Nm
Identification color of ring cable lugs : yellow	6 mm²
Connection in acc. with standard	DIN 46235:1983-07
Cross section	16 mm² ... 50 mm²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	10.5 mm
Width	22 mm

Bolt diameter	10 mm
Screw thread	M10
Tightening torque	25 ... 30 Nm
Connection in acc. with standard	DIN 46237:1970-07
Cross section	6 mm² ... 6 mm²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	10.5 mm
Bolt diameter	10 mm
Screw thread	M10
Tightening torque	25 ... 30 Nm

Dimensions

Dimensional drawing	
Width	32 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	II
Insulating material	PA
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

Electrical tests

Surge voltage test

Result	Test passed
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No

Mechanical tests

Mechanical strength

Result	Test passed

Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
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):2008-03
Spectrum	Long life test category 2, bogie-mounted
Frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 $(m/s^2)^2/Hz$
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis

Shocks

Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

Ambient conditions

Ambient temperature (operation)	-60 °C ... 85 °C
Ambient temperature (storage/transport)	-25 °C ... 55 °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 (storage/transport)	30 % ... 70 %

Standards and regulations

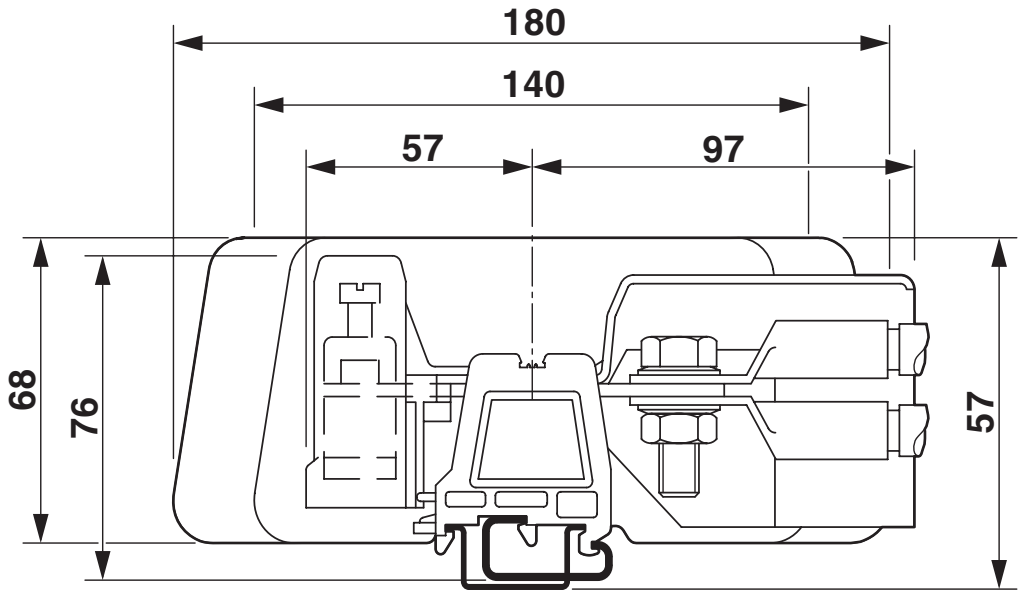
Connection in acc. with standard	IEC 60947-7-1

Mounting

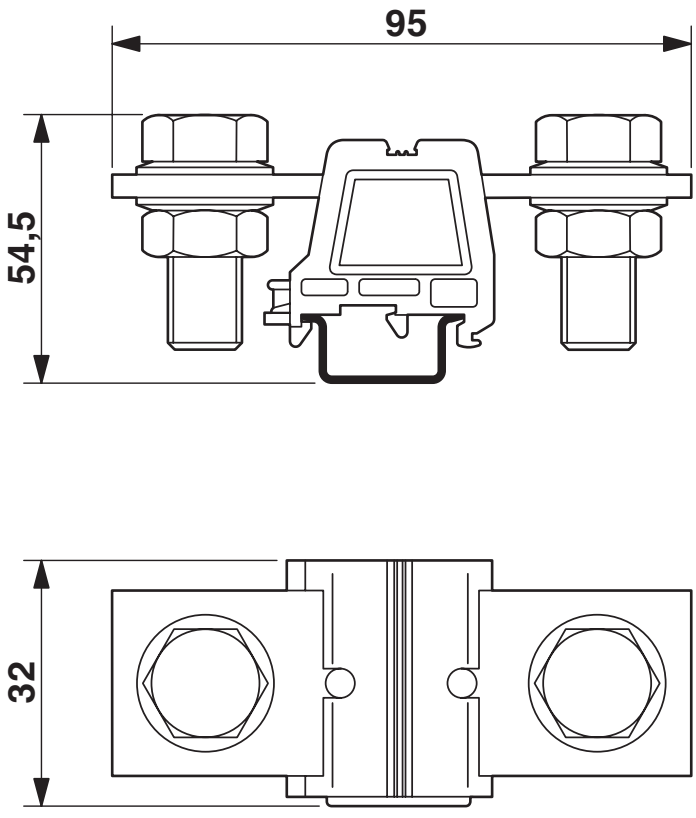
Mounting type	NS 35/15

Drawings

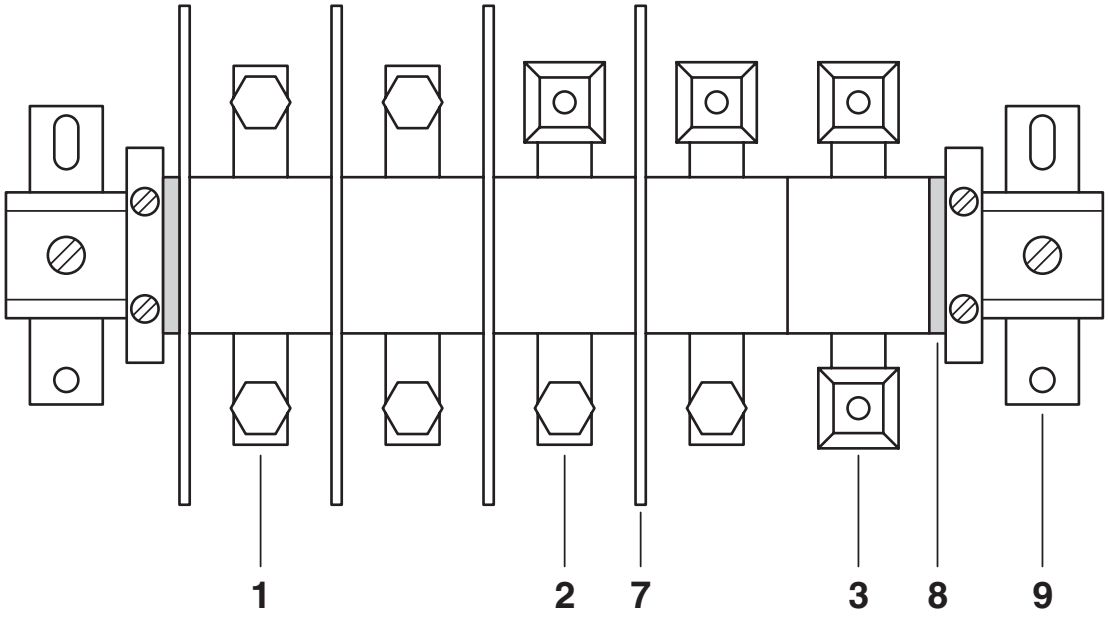
Dimensional drawing



Dimensional drawing



Schematic diagram



1 = high current connector, AS screw set on both sides
2 = high current connector, terminal sleeve KH on one side, screw set AS on the other side
3 = high current connector, terminal sleeves KH on both sides, for direct cable connection
7 = divider plate
8 = end piece
9 = flat bracket

Circuit diagram



Classifications

UNSPSC

UNSPSC 21.0	39121410

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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