

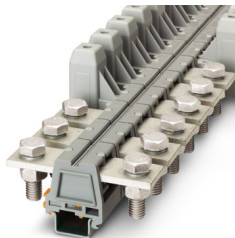
UHV 95-KH/AS - High Current Connectors



2130127

<https://www.phoenixcontact.com/us/products/2130127>

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Universal terminal block with mixed connection, cross section: 35 ... 95 mm², AWG: 2 - 4/0, width: 40 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	2130127
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BE04
Product key	BE4113
Catalog page	Page 575 (C-1-2019)
GTIN	4017918052904
Weight per piece (including packing)	301.87 g
Weight per piece (excluding packing)	275 g
Customs tariff number	85369010
Country of origin	IN

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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
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Connection data

Number of connections per level	2
Nominal cross section	95 mm ²

1 level

Screw thread	M12
Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Power rail	30 mm x 5 mm
Connection in acc. with standard	IEC 60947-7-1
Nominal current	232 A
Maximum load current	232 A (with 95 mm ² conductor cross section)
Nominal voltage	1000 V
Note	2-conductor connection only on terminal sleeve side
Nominal cross section	95 mm ²

1 level

Screw thread	M8
Tightening torque	15 ... 20 Nm
Stripping length	29 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	25 mm ² ... 95 mm ²
Cross section AWG	3 ... 3/0 (converted acc. to IEC)
Conductor cross section flexible	35 mm ² ... 95 mm ²
Conductor cross section, flexible [AWG]	2 ... 3/0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	35 mm ² ... 95 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	35 mm ² ... 95 mm ²
2 conductors with same cross section, solid	25 mm ² ... 35 mm ²
2 conductors with same cross section, flexible	25 mm ² ... 35 mm ²
2 conductors with same cross section, flexible, with ferrule	16 mm ² ... 35 mm ²

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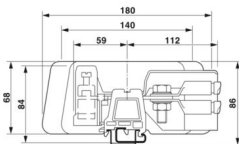
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without plastic sleeve	
Nominal current	232 A
Maximum load current	232 A (with 95 mm ² conductor cross section)
Nominal voltage	1000 V

Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	10 mm ² ... 95 mm ²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	13 mm
Bolt diameter	12 mm
Screw thread	M12
Tightening torque	25 ... 30 Nm
Connection in acc. with standard	DIN 46235:1983-07
Cross section	25 mm ² ... 95 mm ²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	13 mm
Bolt diameter	12 mm
Screw thread	M12
Tightening torque	25 ... 30 Nm

Dimensions

Dimensional drawing	
Width	40 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)	120 °C

Electrical tests

Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
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Result	Test passed
Short-time withstand current 95 mm ²	11.4 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
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Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
Test force setpoint	15 N
Result	Test passed

Test for conductor damage and slackening

Conductor cross section/weight	25 mm ² / 4.5 kg
	35 mm ² / 6.8 kg
	95 mm ² /14 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

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
	IEC 60947-7-1

Mounting

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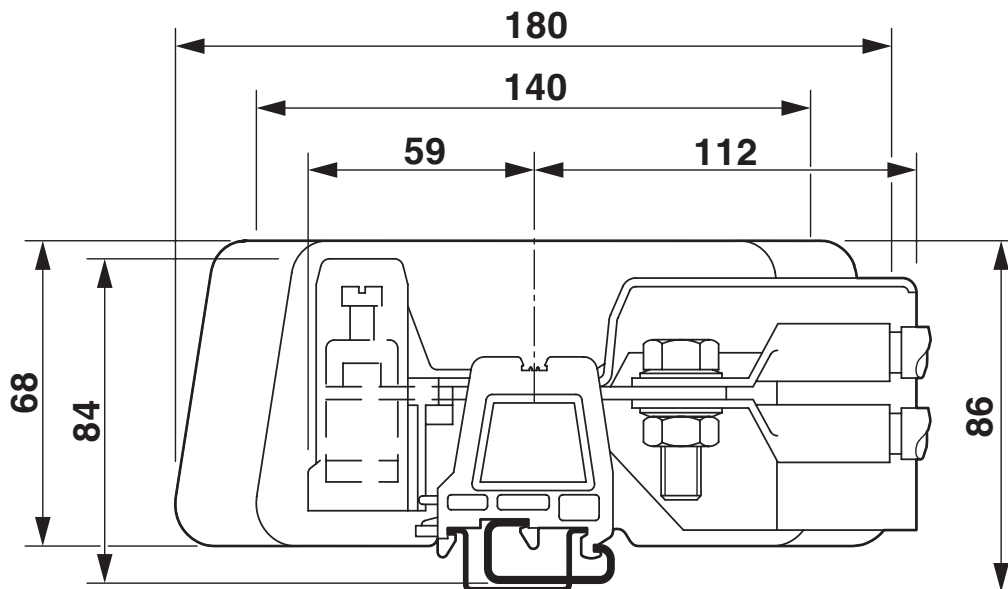
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Mounting type	NS 35/15
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Drawings

Dimensional drawing



Circuit diagram



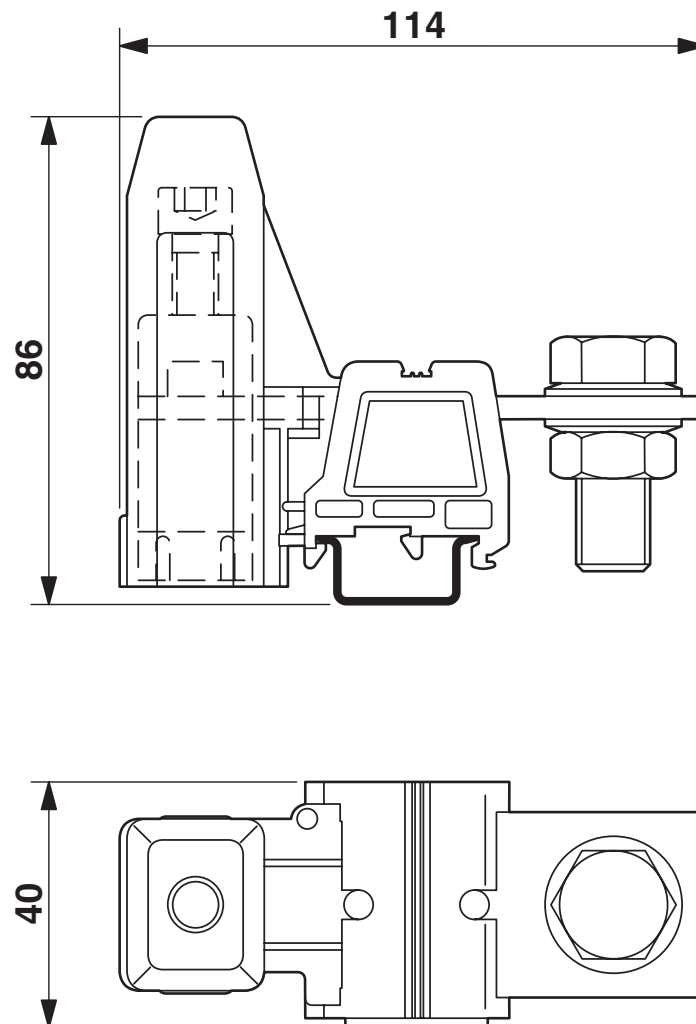
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Dimensional drawing



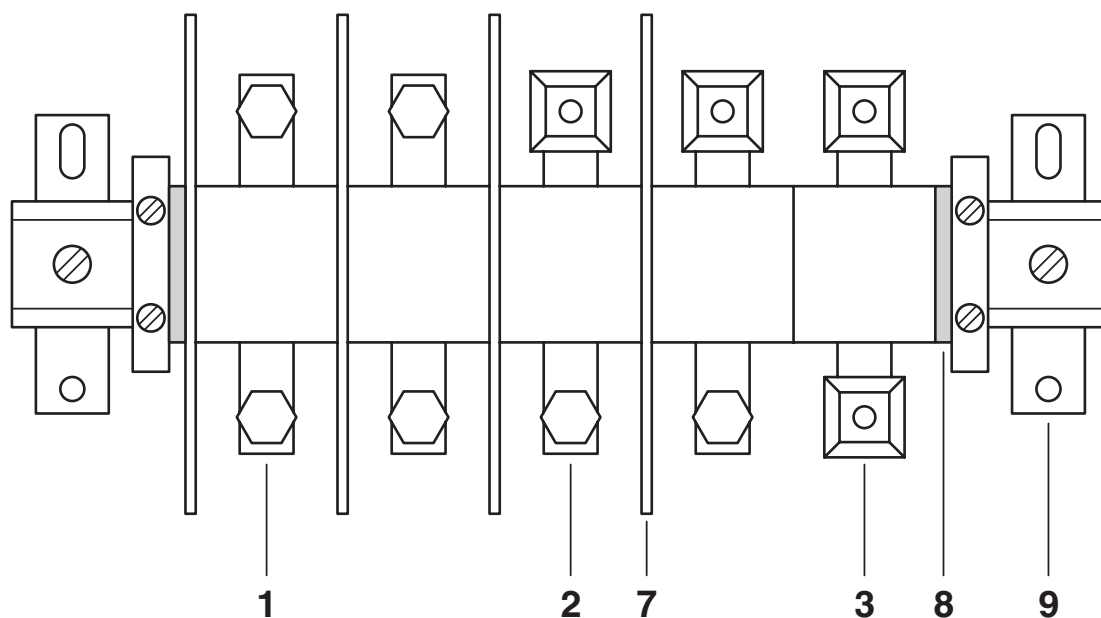
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Schematic diagram



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

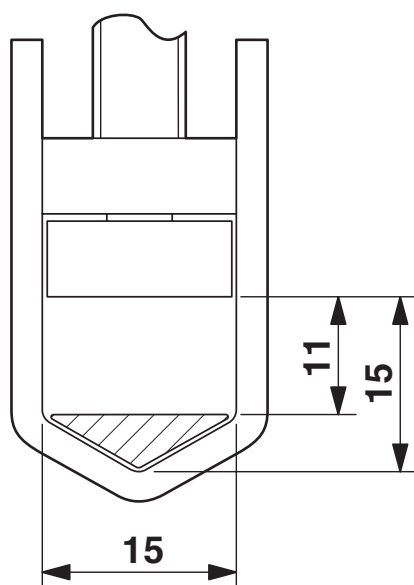
3 = high current connector, terminal sleeves KH on both sides, for direct cable connection

7 = separating plate

8 = end piece

9 = flat bracket

Dimensional drawing



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Classifications

UNSPSC

UNSPSC 21.0	39121410
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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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