

High Current Connectors - UHV 95-KH/KH - 2130172

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Universal terminal block with screw connection, cross section: 35 - 95 mm², AWG: 2 - 4/0, width: 40 mm, color: gray

The figure shows a combination of versions UHV 95-AS/AS, UHV 95-KH/AS and UHV 95-KH/KH

Your advantages

- ✓ 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
- ✓ 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

RoHS

Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 052959
GTIN	4017918052959

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	95 mm ²
Color	gray
Insulating material	PA-F
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	II
Maximum power dissipation for nominal condition	7.54 W

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Technical data

General

Connection in acc. with standard	IEC 60947-7-1
Nominal current I_N	232 A
Maximum load current	232 A (with 95 mm ² conductor cross section)
Nominal voltage U_N	1000 V
Open side panel	No
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	25 mm ² / 4.5 kg
	35 mm ² / 6.8 kg
	95 mm ² /14 kg
Tensile test result	Test passed
Conductor cross section tensile test	25 mm ²
Tractive force setpoint	135 N
Conductor cross section tensile test	35 mm ²
Tractive force setpoint	190 N
Conductor cross section tensile test	95 mm ²
Tractive force setpoint	351 N
Result of tight fit on support	Test passed
Setpoint	15 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	95 mm ²
Short-time current	11.4 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Relative insulation material temperature index (Elec., UL 746 B)	120 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C

Dimensions

Length	118.5 mm
Width	40 mm
Height NS 35/15	86 mm

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Technical data

Connection data

Connection method	Screw connection
Conductor cross section solid min.	25 mm ²
Conductor cross section solid max.	95 mm ²
Conductor cross section flexible min.	35 mm ²
Conductor cross section flexible max.	95 mm ²
Conductor cross section AWG min.	3
Conductor cross section AWG max.	3/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	35 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	95 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	35 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	95 mm ²
2 conductors with same cross section, solid min.	25 mm ²
2 conductors with same cross section, solid max.	35 mm ²
2 conductors with same cross section, stranded min.	25 mm ²
2 conductors with same cross section, stranded max.	35 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	16 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	35 mm ²
Stripping length	29 mm
Screw thread	M8
Tightening torque, min	15 Nm
Tightening torque max	20 Nm
Power rail	30 mm x 5 mm

Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V0

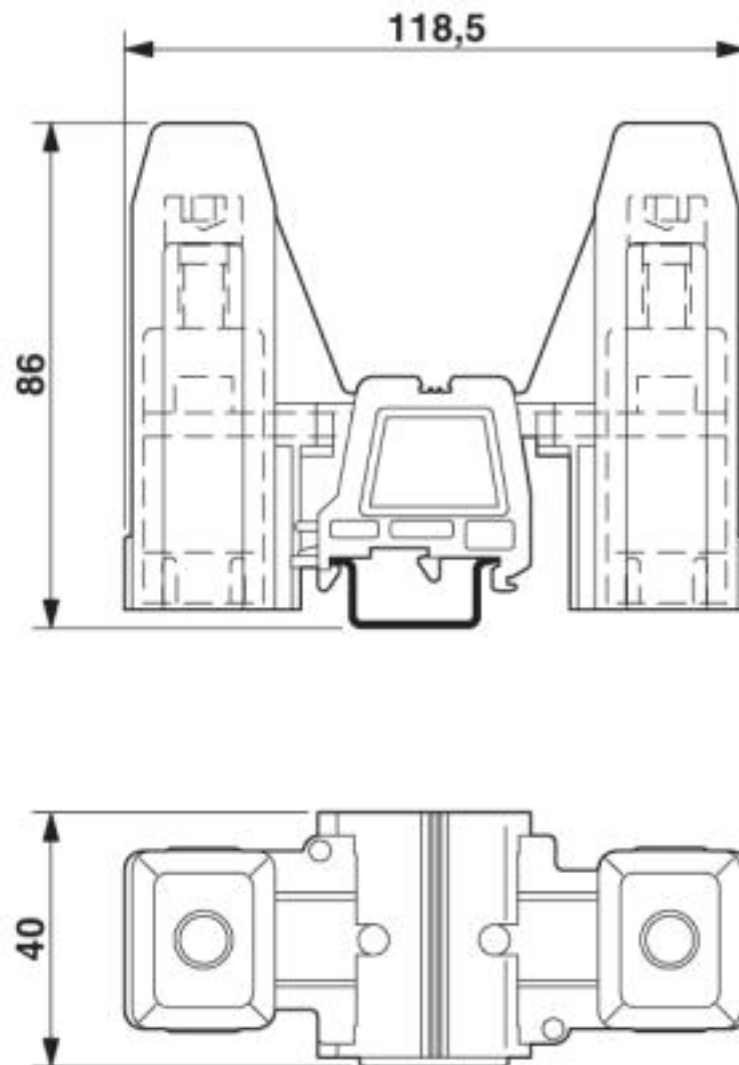
Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

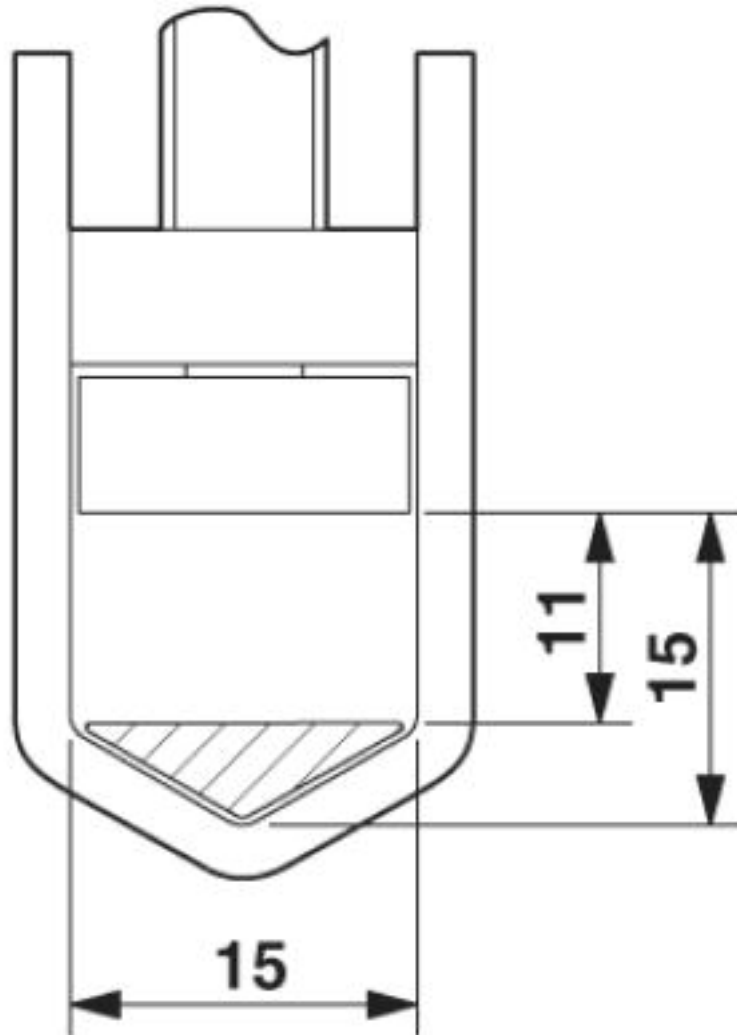
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Dimensional drawing



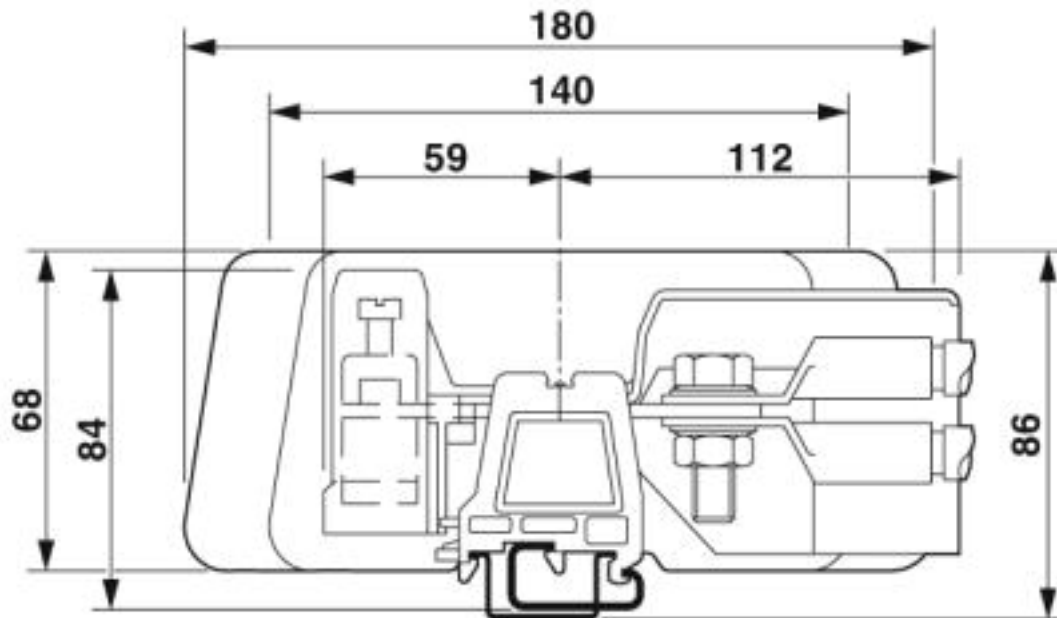
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Dimensional drawing



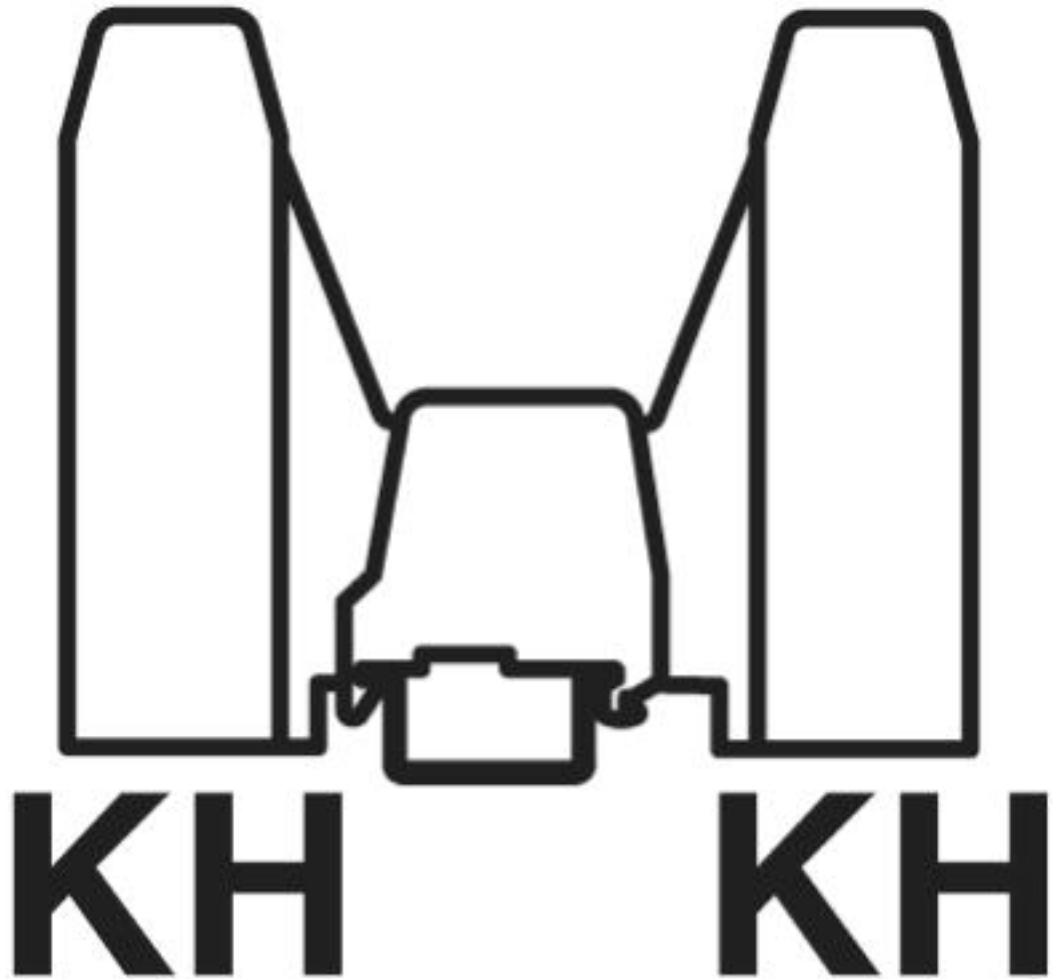
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Dimensional drawing



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Pictogram

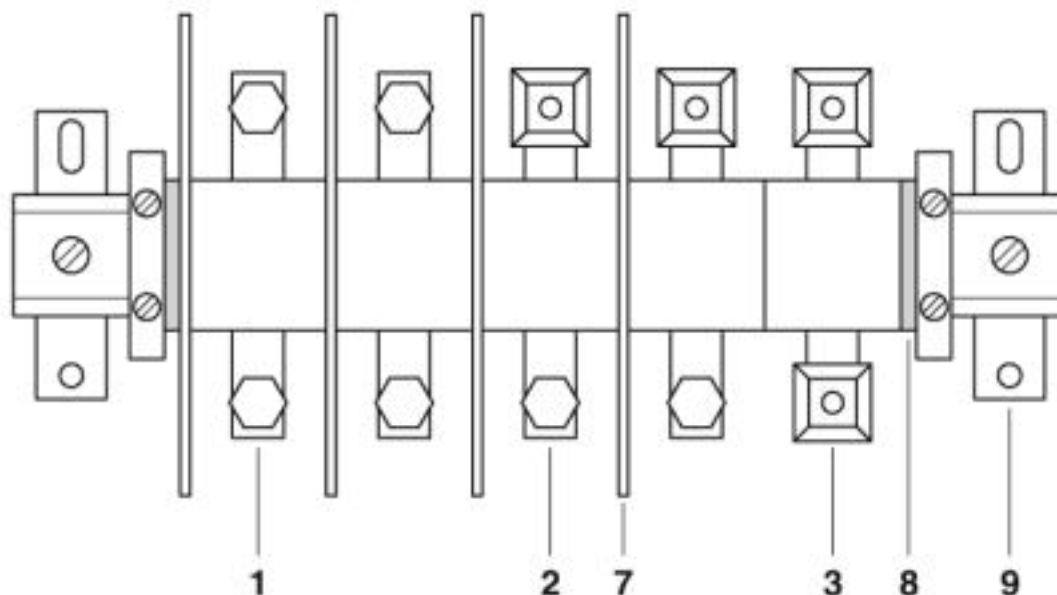


Circuit diagram



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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

Approvals

Approvals

Approvals

DNV GL / CSA / UL Recognized / EAC / EAC

Ex Approvals

Approval details

DNV GL



<https://approvalfinder.dnvgl.com/>

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Approvals

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	200 A	200 A	
mm²/AWG/kcmil	2	2	

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	230 A	230 A	
mm²/AWG/kcmil	2	2	

EAC		EAC-Zulassung
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EAC		RU C- DE.BL08.B.00540
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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>