

# High Current Connectors - UHV 95-KH/AS - 2130127

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Universal terminal block with mixed connection, cross section: 35 - 95 mm<sup>2</sup>, AWG: 2 - 4/0, width: 40 mm, color: gray


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

## Product Features

- ✓ The UHV ... high-current connectors are available in several versions
- ✓ Versions are available with a cable lug or direct connection and there is a mixed version of both connection methods
- ✓ The comprehensive range of accessories, such as the connection rail for cross connection, ensures safe and user-friendly wiring of conductors up to 240 mm<sup>2</sup>



## Key commercial data

Packing unit	1 pc
GTIN	
Weight per Piece (excluding packing)	296.23 GRM
Custom tariff number	85369010
Country of origin	India

## Technical data

### General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA-F
Inflammability class according to UL 94	V2
Rated surge voltage	8 kV

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## Technical data

### General

Pollution degree	3
Surge voltage category	III
Insulating material group	II
Connection in acc. with standard	IEC 60947-7-1
Current	232 A
Additional text	with 95 mm <sup>2</sup> conductor cross section
Nominal current I <sub>N</sub>	232 A
Nominal voltage U <sub>N</sub>	1000 V
Open side panel	nein
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test conductor cross section/weight	25 mm <sup>2</sup> / 4.5 kg
	35 mm <sup>2</sup> / 6.8 kg
	95 mm <sup>2</sup> /14 kg
Result of bending test	Test passed
Conductor cross section tensile test	25 mm <sup>2</sup>
Tractive force setpoint	135 N
Conductor cross section tensile test	35 mm <sup>2</sup>
Tractive force setpoint	190 N
Conductor cross section tensile test	95 mm <sup>2</sup>
Tractive force setpoint	351 N
Tensile test result	Test passed
Tight fit on carrier	NS 32/NS 35
Setpoint	15 N
Result of tight fit test	Test passed
Requirements, voltage drop	$U_1 \leq 3.2 \text{ mV}$
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	95 mm <sup>2</sup>
Short-time current	11.4 kA
Short circuit stability result	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed

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## Technical data

### General

Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	125 °C
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### Dimensions

Length	114 mm
Width	40 mm
Height NS 35/15	86 mm

### Connection data

Conductor cross section solid min.	25 mm <sup>2</sup>
Conductor cross section solid max.	95 mm <sup>2</sup>
Conductor cross section stranded min.	35 mm <sup>2</sup>
Conductor cross section stranded max.	95 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	3
Conductor cross section AWG/kcmil max	3/0
Conductor cross section stranded, with ferrule without plastic sleeve min.	35 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	95 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	35 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	95 mm <sup>2</sup>
2 conductors with same cross section, solid min.	25 mm <sup>2</sup>
2 conductors with same cross section, solid max.	35 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	25 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	35 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	16 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	35 mm <sup>2</sup>
Stripping length	29 mm
Screw thread	M8
Tightening torque, min	15 Nm
Tightening torque max	20 Nm
Connection method	Bolt connection
Connection in acc. with standard	DIN 46,235
Min. cross section	25 mm <sup>2</sup>
Max. cross section	95 mm <sup>2</sup>
Hole diameter	13 mm
Bolt diameter	12 mm
Bolt thread	M12
Tightening torque, min	25 Nm
Tightening torque max	30 Nm

# High Current Connectors - UHV 95-KH/AS - 2130127

## Technical data

### Connection data

Connection in acc. with standard	DIN 46 234
Min. cross section	10 mm <sup>2</sup>
Max. cross section	95 mm <sup>2</sup>
Hole diameter	13 mm
Bolt diameter	12 mm
Bolt thread	M12
Tightening torque, min	25 Nm
Tightening torque max	30 Nm
Power rail	30 mm x 5 mm

## Classifications

### eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120

### ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

## Approvals

### Approvals

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## Approvals


Approvals


CSA / UL Recognized / GOST / GL / PRS / GOST

Ex Approvals

Approvals submitted

## Approval details

CSA 		
	B	C
mm²/AWG/kcmil	2-4/0	2-4/0
Nominal current I <sub>N</sub>	200 A	200 A
Nominal voltage U <sub>N</sub>	600 V	600 V

UL Recognized 	
mm²/AWG/kcmil	2-4/0
Nominal current I <sub>N</sub>	230 A
Nominal voltage U <sub>N</sub>	600 V

GOST 
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GL
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PRS
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GOST 
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# High Current Connectors - UHV 95-KH/AS - 2130127

## Drawings

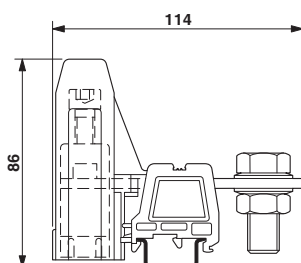
Pictogram



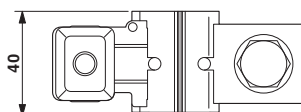
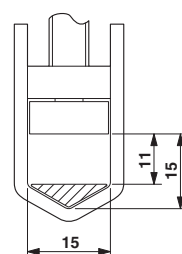
Circuit diagram



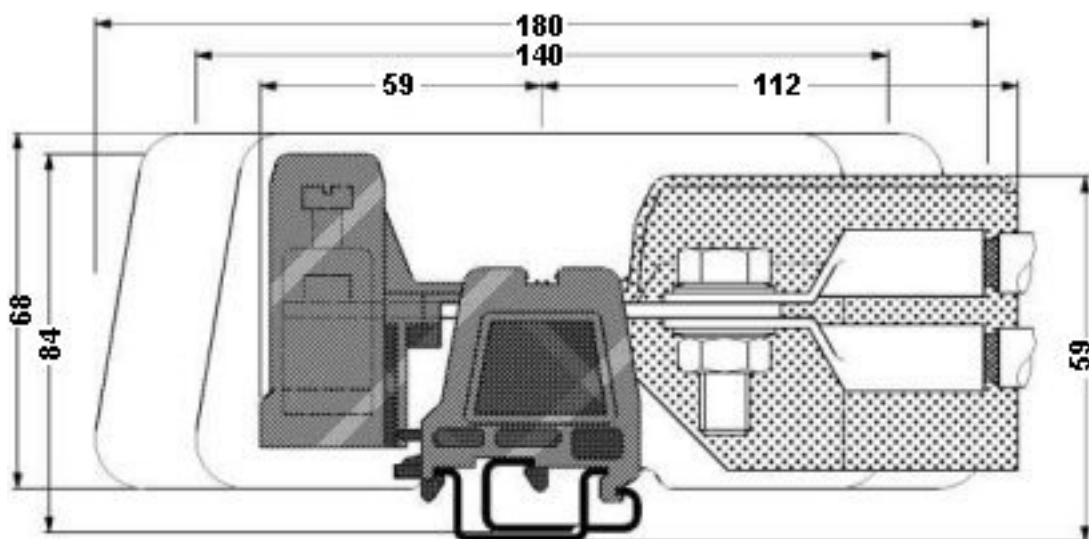
Dimensioned drawing



Dimensioned drawing

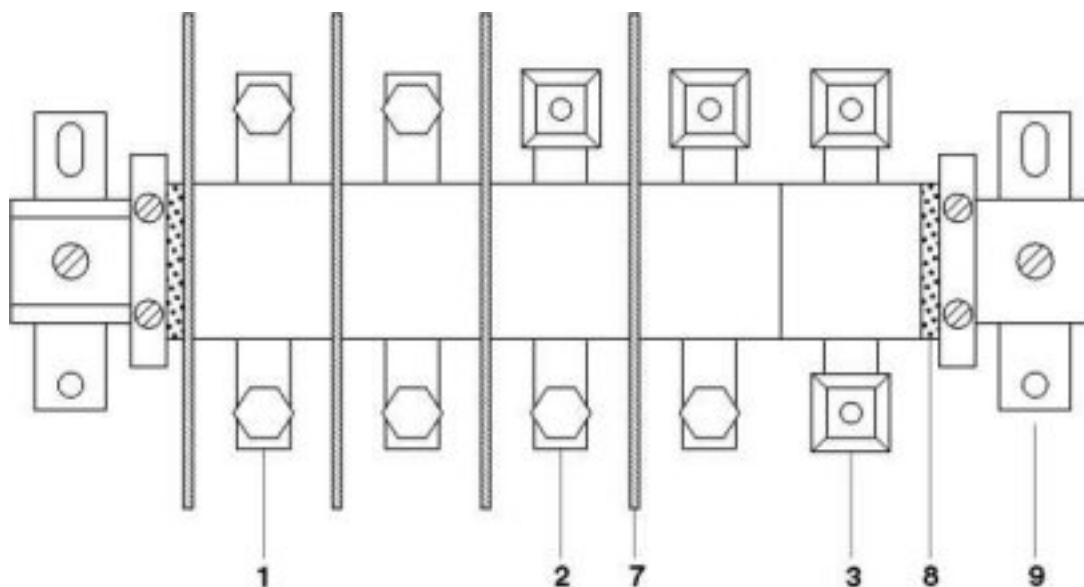


Dimensioned drawing



## High Current Connectors - UHV 95-KH/AS - 2130127

Circuit 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