

High Current Connectors - UHV 50-AS/AS - 2130017

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



High-current connector with bolt connection, cross section: 25 mm² ... 50 mm², AWG: 6 ... 1/0, width: 32 mm, color: gray


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



Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 052799
GTIN	4017918052799
Weight per Piece (excluding packing)	165.960 g
Custom tariff number	85369010
Country of origin	India

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	50 mm ²
Color	gray
Insulating material	PA-F
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3

High Current Connectors - UHV 50-AS/AS - 2130017

Technical data

General

Overvoltage category	III
Insulating material group	II
Maximum power dissipation for nominal condition	4.73 W
Connection in acc. with standard	IEC 60947-7-1
Nominal current I_N	150 A
Maximum load current	150 A (with 50 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 tight fit on support	Test passed
Tight fit on carrier	NS 32/NS 35
Setpoint	10 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	50 mm ²
Short-time current	6 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
Static insulating material application in cold	-40 °C

Dimensions

Length	95 mm
Width	32 mm
Height NS 35/15	54.5 mm

Connection data

Connection method	Bolt connection
Conductor cross section solid min.	26 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section flexible min.	26 mm ²
Conductor cross section flexible max.	50 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	26 mm ²

High Current Connectors - UHV 50-AS/AS - 2130017

Technical data

Connection data

Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm ²
Cable lug connection according to standard	DIN 46234
Min. cross section for cable lug connection	6 mm ²
Max. cross section for cable lug connection	50 mm ²
Hole diameter, min.	10.5 mm
Bolt diameter	10 mm
Screw thread	M10
Tightening torque, min	25 Nm
Tightening torque max	30 Nm
Cable lug connection according to standard	DIN 46235
Min. cross section for cable lug connection	16 mm ²
Max. cross section for cable lug connection	50 mm ²
Hole diameter, min.	10.5 mm
Bolt diameter	10 mm
Screw thread	M10
Tightening torque, min	25 Nm
Tightening torque max	30 Nm
Cable lug connection according to standard	DIN 46237
Min. cross section for cable lug connection	6 mm ²
Max. cross section for cable lug connection	6 mm ²
Hole diameter, min.	10.5 mm
Bolt diameter	10 mm
Screw thread	M10
Tightening torque, min	25 Nm
Tightening torque max	30 Nm
Power rail	20 mm x 3 mm

Standards and Regulations

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

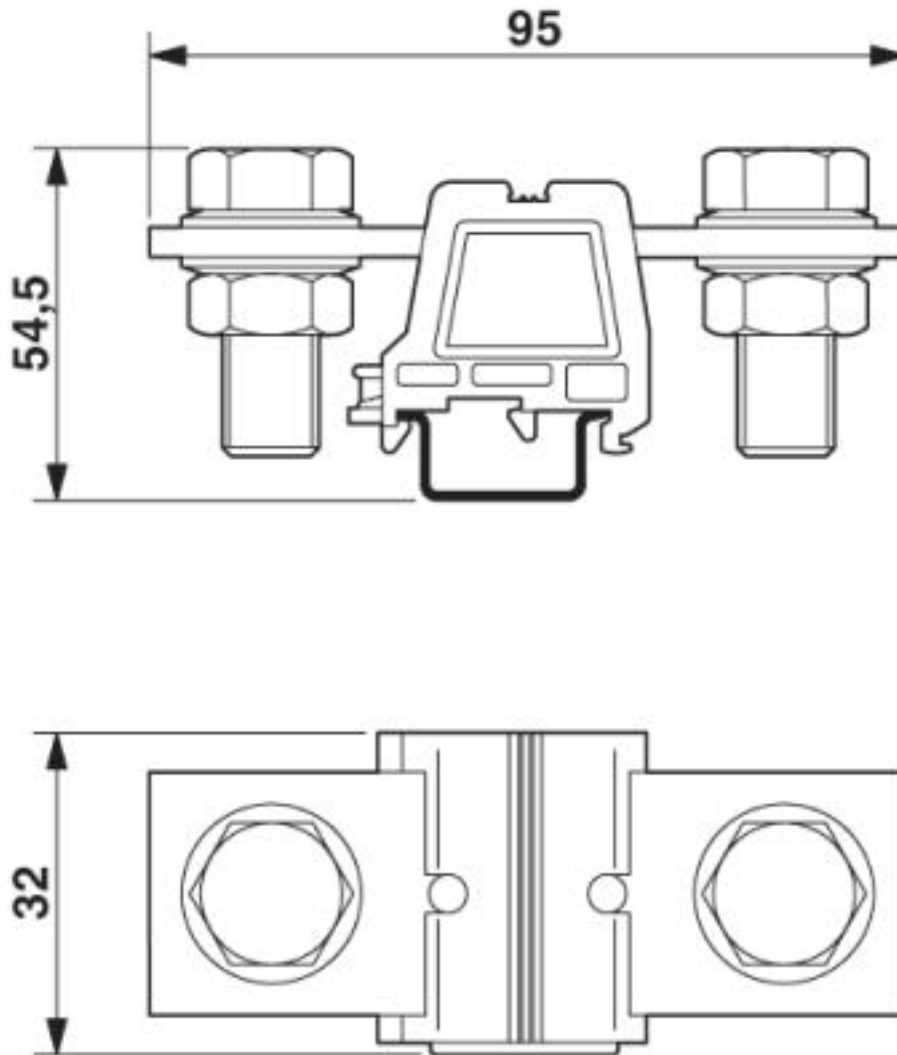
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

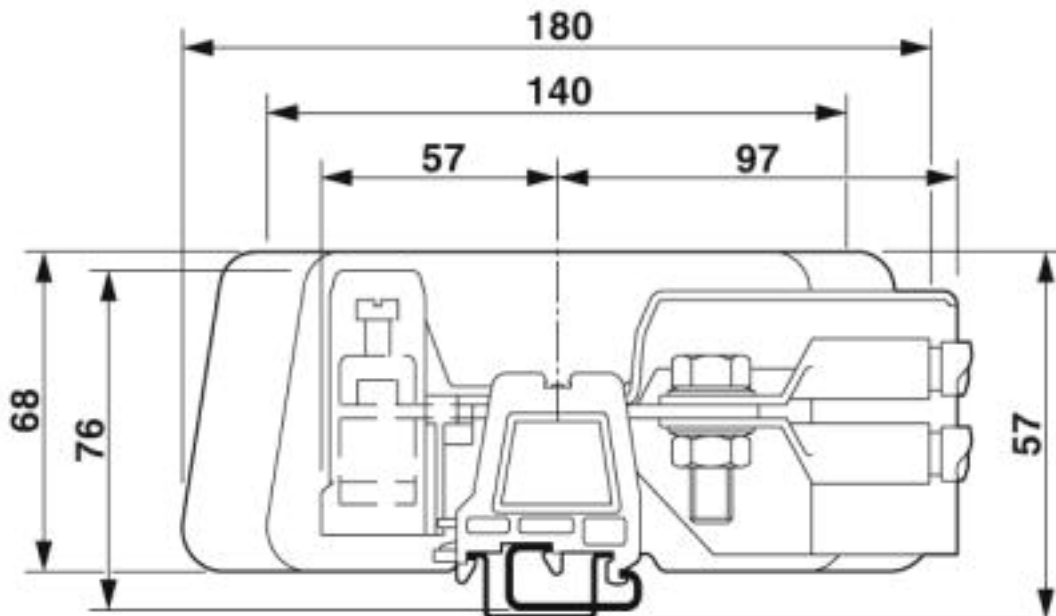
High Current Connectors - UHV 50-AS/AS - 2130017

Dimensional drawing

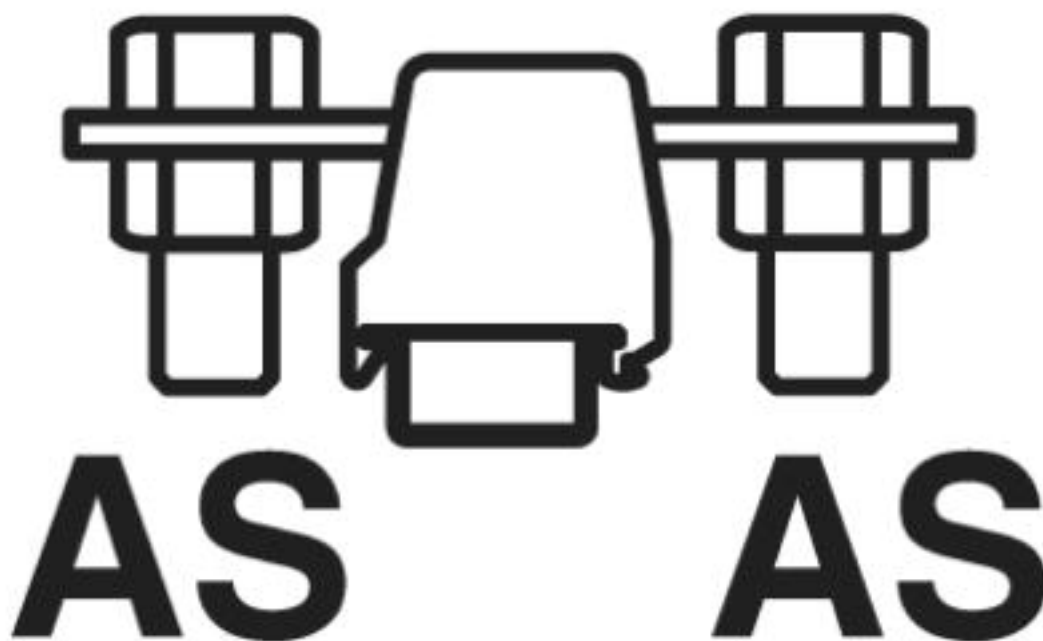


High Current Connectors - UHV 50-AS/AS - 2130017

Dimensional drawing



Pictogram

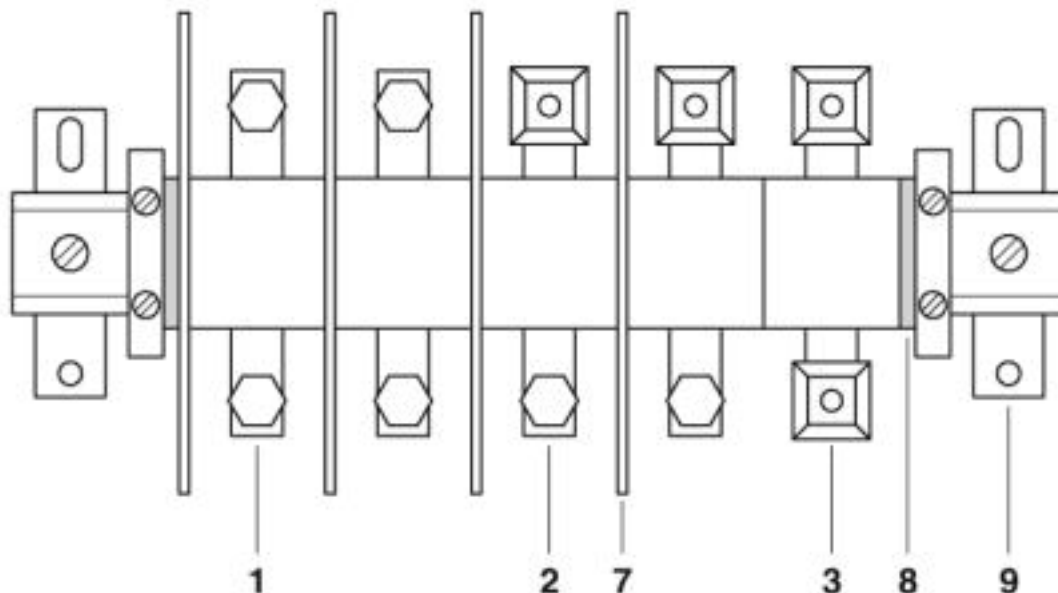


Circuit diagram



High Current Connectors - UHV 50-AS/AS - 2130017

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

Classifications

eCl@ss

eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

High Current Connectors - UHV 50-AS/AS - 2130017

Classifications

UNSPSC

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

Approvals

Approvals


Approvals


DNV GL / CSA / UL Recognized / EAC / RS


Ex Approvals

Approval details

DNV GL		https://approvalfinder.dnvgl.com/	TAE00001CT
--------	---	---	------------

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	125 A	125 A	
mm ² /AWG/kcmil	6	6	

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	150 A	150 A	
mm ² /AWG/kcmil	6	6	

EAC		EAC-Zulassung
-----	---	---------------

<https://www.phoenixcontact.com/gb/products/2130017>



High Current Connectors - UHV 50-AS/AS - 2130017

Approvals

RS		http://www.rs-head.spb.ru/en/index.php	17.00013.272
----	---	---	--------------

Phoenix Contact 2019 © - all rights reserved
<http://www.phoenixcontact.com>



SCATTERGOOD & JOHNSON LTD

ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS

Est.1899

At Scattergood & Johnson Ltd, we pride ourselves on being a technical distributor to specialist industries.

Working with a range of quality product suppliers across a number of specialist markets, we are not your average 'box shifter' - we are your technical and supply chain partner.

We fully support every product we sell - for free! Our internal team and external sales engineers can answer any product or application question, no matter the complexity.

Backing up this technical ability is a range of 50,000+ products available from stock for nationwide next day delivery (same day if required!), or you can collect what you need from any of our trade counters around the UK.

Select your specialist interest below to learn more about how we can help.



Online, In Branch and On the Road - Scattergood & Johnson Ltd, there when you need us.

www.scatts.co.uk