

High Current Connectors - UHV 50-M10/M10 - 2130211

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>)



Universal terminal block with bolt connection, cross section: 25 ... 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

RoHS

Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 052997
GTIN	4017918052997

Technical data

General

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

High Current Connectors - UHV 50-M10/M10 - 2130211

Technical data

General

Maximum power dissipation for nominal condition	4.73 W
Maximum load current	150 A (with 50 mm ² conductor cross section)
Nominal current I_N	150 A
Nominal voltage U_N	1000 V
Open side panel	No

Dimensions

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

Connection data

Connection	1 level
Connection method	Bolt connection
Stripping length	26 mm
Tightening torque, min	6 Nm
Tightening torque max	8 Nm
Connection in acc. with standard	IEC 60947-7-1
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
Min. AWG conductor cross section, flexible	3
Max. AWG conductor cross section, flexible	1/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm ²
2 conductors with same cross section, solid min.	10 mm ²
2 conductors with same cross section, solid max.	16 mm ²
2 conductors with same cross section, stranded min.	10 mm ²
2 conductors with same cross section, stranded max.	16 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	10 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	16 mm ²
Cable lug connection according to standard	DIN 46234:1980-03
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

High Current Connectors - UHV 50-M10/M10 - 2130211

Technical data

Connection data

Tightening torque, min	25 Nm
Tightening torque max	30 Nm
Cable lug connection according to standard	DIN 46235:1983-07
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 46237:1970-07
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	HB

Environmental Product Compliance

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

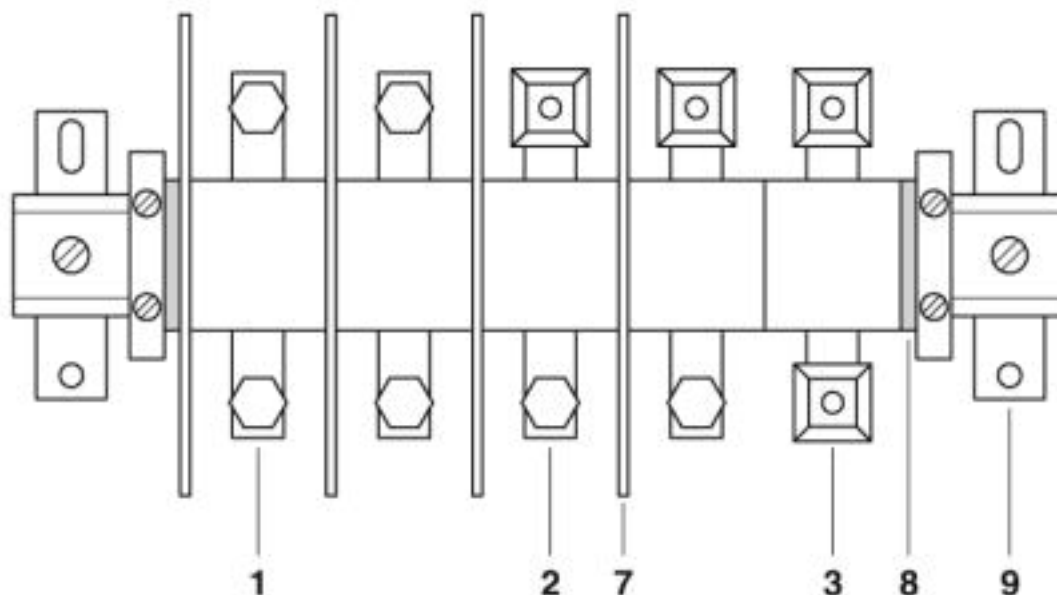
Drawings

Circuit diagram



High Current Connectors - UHV 50-M10/M10 - 2130211

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/>

TAE00001CT

High Current Connectors - UHV 50-M10/M10 - 2130211

Approvals

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	
mm²/AWG/kcmil	6	6	

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
Nominal voltage UN	600 V		
Nominal current IN	150 A		
mm²/AWG/kcmil	6		

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

EAC		RU C- DE.BL08.B.00540
-----	---	--------------------------

Phoenix Contact 2020 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>