

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

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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

Why buy this product

- 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 STK
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

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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 method	Bolt connection
Connection in acc. with standard	IEC 60947-7-1
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
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

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Connection data

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
Stripping length	26 mm
Tightening torque, min	6 Nm
Tightening torque max	8 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

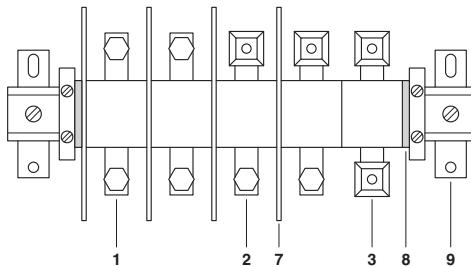
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Circuit diagram



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

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Approvals

Approvals

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CSA / UL Recognized / EAC / DNV GL

Ex Approvals

Approval details

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	6-1/0	6-1/0	

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		
mm ² /AWG/kcmil	6-1/0		

EAC		EAC-Zulassung
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DNV GL	http://exchange.dnv.com/tari/	TAE00001CT
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