

High Current Connectors - UHV 50-KH/M10 - 2130318

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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 053093
GTIN	4017918053093

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	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	16 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section AWG min.	6
Conductor cross section AWG max.	1/0
Conductor cross section flexible min.	25 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
Stripping length	26 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

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Environmental Product Compliance

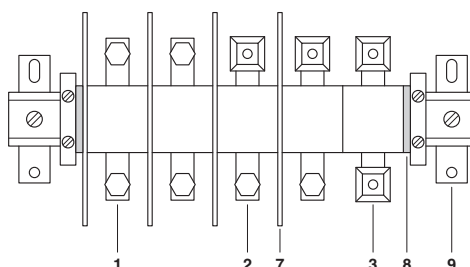
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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

Approvals


Approvals

Approvals

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	
mm²/AWG/kcmil	6-1/0	6-1/0	

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Approvals

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		6-1/0	

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