High Current Connectors - UHV 50-KH/AS - 2130114

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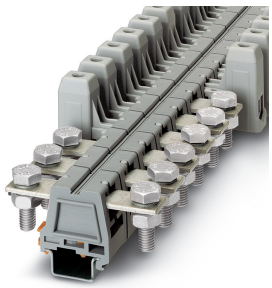

The figure shows a combination of versions UHV 50-AS/AS, UHV 50-KH/AS and UHV 50-KH/KH

Universal terminal block with mixed connection, cross section: 25 - 50 mm², AWG: 6 - 1/0, width: 32 mm, color: gray

Your advantages

- 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
- Versions are available with a cable lug or direct connection and there is a mixed version of both connection methods

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 052898
GTIN	4017918052898
Weight per Piece (excluding packing)	171.030 g
Custom tariff number	85369010
Country of origin	India

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	50 mm²
Color	gray

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Technical data

General

Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
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 mm² conductor cross section)
Nominal voltage U_N	1000 V
Connection in acc. with standard	IEC 60947-7-1
Open side panel	No

Dimensions

Length	104 mm
Width	32 mm
Height NS 35/15	78 mm

Connection data

Connection method	Bolt connection
Note	2-conductor connection only on terminal sleeve side
Cable lug connection according to standard	DIN 46234:1980-03
Min. cross section for cable lug connection	6 mm²
Max. cross section for cable lug connection	50 mm²
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 46235:1983-07
Min. cross section for cable lug connection	16 mm²
Max. cross section for cable lug connection	50 mm²
Hole diameter, min.	10.5 mm
Bolt diameter	10 mm
Screw thread	M10
Tightening torque, min	25 Nm
Tightening torque max	30 Nm

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Technical data

Connection data

Cable lug connection according to standard	DIN 46237:1970-07
Min. cross section for cable lug connection	6 mm²
Max. cross section for cable lug connection	6 mm²
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	The stripping length depends on the specification provided by the cable lug manufacturer.
Screw thread	M10
Power rail	20 mm x 3 mm
Connection method	Screw connection
Conductor cross section solid min.	16 mm²
Conductor cross section solid max.	50 mm²
Conductor cross section flexible min.	25 mm²
Conductor cross section flexible max.	50 mm²
Conductor cross section AWG min.	6
Conductor cross section AWG max.	1/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	25 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm²
2 conductors with same cross section, solid min.	10 mm²
2 conductors with same cross section, solid max.	16 mm²
2 conductors with same cross section, stranded min.	10 mm²
2 conductors with same cross section, stranded max.	16 mm²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum	10 mm²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum	16 mm²
Stripping length	26 mm
Screw thread	M6
Tightening torque, min	6 Nm
Tightening torque max	8 Nm

Ambient conditions

Operating temperature	-60 °C ... 85 °C
Ambient temperature (storage/transport)	-25 °C ... 55 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)

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Ambient conditions

Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C

Standards and Regulations

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

Environmental Product Compliance

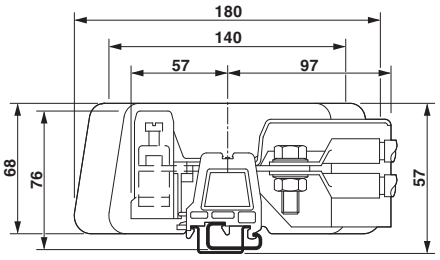
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

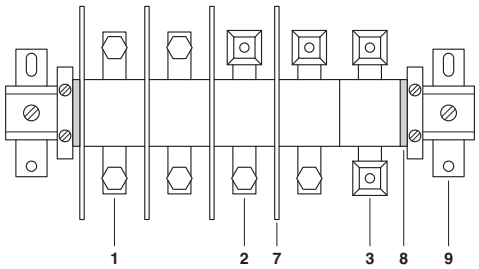
Pictogram

Circuit diagram

Dimensional drawing



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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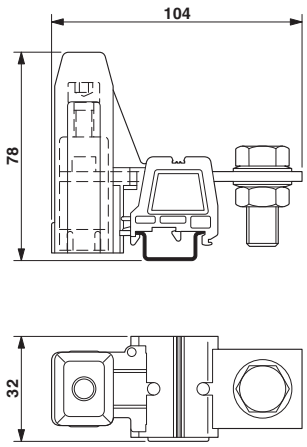
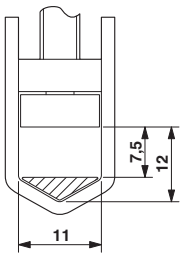
Dimensional drawing



Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 11.0	27141120
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 9.0	27141120

ETIM

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

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410

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Classifications

UNSPSC

UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

Approvals

Approvals

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DNV GL / CSA / UL Recognized / EAC

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
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

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Approvals

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