High Current Connectors - UHV 95-KH/AS - 2130127

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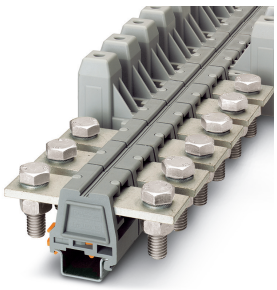

The figure shows a combination of versions UHV 95-AS/AS, UHV 95-KH/AS and UHV 95-KH/KH

Universal terminal block with mixed connection, cross section: 35 - 95 mm², AWG: 2 - 4/0, width: 40 mm, color: gray

Your advantages

- 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
- The UHV ... high-current connectors are available in several versions

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 052904
GTIN	4017918052904
Weight per Piece (excluding packing)	296.230 g
Custom tariff number	85369010
Country of origin	India

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	95 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	7.54 W
Connection in acc. with standard	IEC 60947-7-1
Nominal current I_N	232 A
Maximum load current	232 A (with 95 mm² conductor cross section)
Nominal voltage U_N	1000 V
Connection in acc. with standard	IEC 60947-7-1
Nominal current I_N (upper level)	232 A
Maximum load current (upper level)	232 A (with 95 mm² 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 flexion and pull-out test	Test passed
Bending test conductor cross section/weight	25 mm² / 4.5 kg
	35 mm² / 6.8 kg
	95 mm²/14 kg
Tensile test result	Test passed
Conductor cross section tensile test	25 mm²
Tractive force setpoint	135 N
Conductor cross section tensile test	35 mm²
Tractive force setpoint	190 N
Conductor cross section tensile test	95 mm²
Tractive force setpoint	351 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 32/NS 35
Setpoint	15 N
Result of voltage-drop test	Test passed

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General

Requirements, voltage drop	$U_1 \leq 3.2$ mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	95 mm²
Short-time current	11.4 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

Dimensions

Length	114 mm
Width	40 mm
Height NS 35/15	86 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	10 mm²
Max. cross section for cable lug connection	95 mm²
Hole diameter, min.	13 mm
Bolt diameter	12 mm
Screw thread	M12
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	25 mm²
Max. cross section for cable lug connection	95 mm²
Hole diameter, min.	13 mm
Bolt diameter	12 mm
Screw thread	M12
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	M12
Power rail	30 mm x 5 mm
Connection method	Screw connection

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Connection data

Conductor cross section solid min.	25 mm²
Conductor cross section solid max.	95 mm²
Conductor cross section flexible min.	35 mm²
Conductor cross section flexible max.	95 mm²
Conductor cross section AWG min.	3
Conductor cross section AWG max.	3/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	35 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	95 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	35 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	95 mm²
2 conductors with same cross section, solid min.	25 mm²
2 conductors with same cross section, solid max.	35 mm²
2 conductors with same cross section, stranded min.	25 mm²
2 conductors with same cross section, stranded max.	35 mm²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum	16 mm²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum	35 mm²
Stripping length	29 mm
Screw thread	M8
Tightening torque, min	15 Nm
Tightening torque max	20 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)
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

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years

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Technical data

Environmental Product Compliance

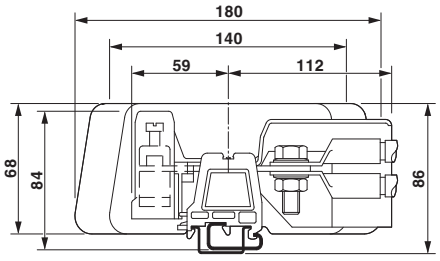
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

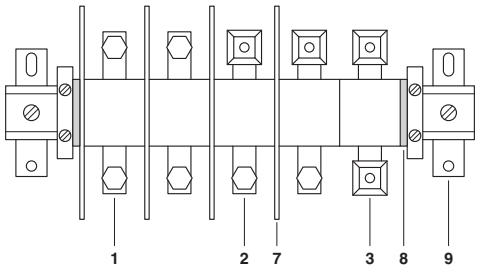
Pictogram

Circuit diagram

Dimensional drawing

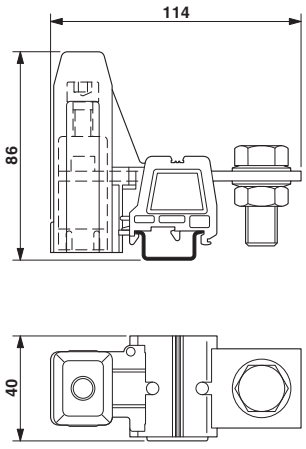


Schematic diagram

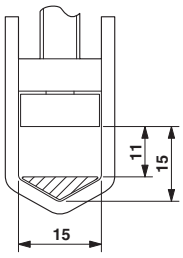


1 = high current connector, AS screw set on both sides
2 = high current connector, terminal sleeve KH on one side, screw set AS on the other side
3 = high current connector, terminal sleeves KH on both sides, for direct cable connection
7 = separating plate
8 = end piece
9 = flat bracket

Dimensional drawing



Dimensional drawing



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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
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

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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	200 A	200 A
mm²/AWG/kcmil	2	2

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	230 A
mm²/AWG/kcmil	2

EAC		RU C-DE.BL08.B.00540