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High-current connector with bolt connection, cross section: 25 mm² ... 50 mm², AWG: 6 ... 1/0, width: 32 mm, color: gray

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

Product Features

- 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



Key Commercial Data

Packing unit	1 pc	
GTIN	4 017918 052799	
Weight per Piece (excluding packing)	166.06 g	
Custom tariff number	85369010	
Country of origin	India	

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	50 mm ²
Color	gray
Insulating material	PA-F
Flammability rating according to UL 94	V2



Technical data

General

Rated surge voltage	8 kV	
Degree of pollution	3	
Overvoltage category	III	
Insulating material group	II	
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	
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 tight fit on support	Test passed	
Tight fit on carrier	NS 32/NS 35	
Setpoint	10 N	
Result of voltage-drop test	Test passed	
Requirements, voltage drop	≤ 3.2 mV	
Result of temperature-rise test	Test passed	
Short circuit stability result	Test passed	
Conductor cross section short circuit testing	50 mm ²	
Short-time current	6 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	95 mm
Width	32 mm
Height NS 35/15	54.5 mm

Connection data

Conductor cross section solid min.	26 mm²
Conductor cross section solid max.	50 mm ²
Conductor cross section flexible min.	26 mm ²
Conductor cross section flexible max.	50 mm²



Technical data

Connection data

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Conductor cross section AWG min.	3	
Conductor cross section AWG max.	1/0	
Stripping length	26 mm	
Tightening torque, min	6 Nm	
Tightening torque max	8 Nm	
Connection method	Bolt connection	
Connection in acc. with standard	DIN 46,235	
Min. cross section	16 mm²	
Max. cross section	50 mm²	
Hole diameter	10.5 mm	
Bolt diameter	10 mm	
Bolt thread	M10	
Tightening torque, min	25 Nm	
Tightening torque max	30 Nm	
Connection in acc. with standard	DIN 46 234	
Min. cross section	6 mm²	
Max. cross section	50 mm²	
Hole diameter	10.5 mm	
Bolt diameter	10 mm	
Bolt 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
	DIN 46,235
	DIN 46 234
Flammability rating according to UL 94	V2

Classifications

eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120



Classifications

eCl@ss

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eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

UNSPSC

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

Approvals

Approvals

Approvals

CSA / UL Recognized / GL / RS / PRS / EAC / EAC

Ex Approvals

Approvals submitted

Approval details





Approvals

	В	С
Nominal current IN	125 A	125 A
Nominal voltage UN	600 V	600 V

UL Recognized \$\)		
	В	С
mm²/AWG/kcmil	6-1/0	6-1/0
Nominal current IN	150 A	150 A
Nominal voltage UN	600 V	600 V

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1 50		
TRS		
110		

PRS			
TPRS			
1			

LEAC		
LAC		

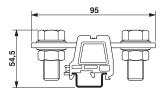
EAC
EAC

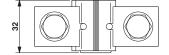
Drawings

Pictogram Circuit diagram

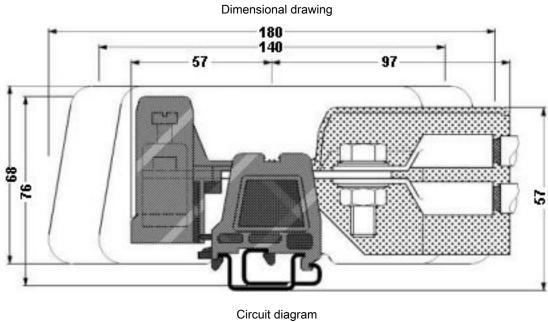


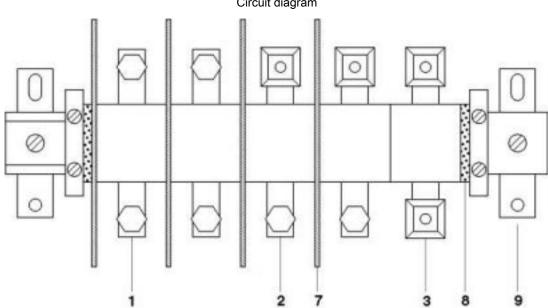
Dimensional drawing











- 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