

## High Current Connectors - UHV 50-AS/AS - 2130017

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High-current connector with bolt connection, cross section: 25 mm<sup>2</sup> ... 50 mm<sup>2</sup>, 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 mm<sup>2</sup>



### 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 <sup>2</sup>
Color	gray
Insulating material	PA-F
Flammability rating according to UL 94	V2

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## 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 mm <sup>2</sup> 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 <sup>2</sup>
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 mm <sup>2</sup>
Conductor cross section solid max.	50 mm <sup>2</sup>
Conductor cross section flexible min.	26 mm <sup>2</sup>
Conductor cross section flexible max.	50 mm <sup>2</sup>

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## Technical data

### Connection data

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 mm <sup>2</sup>
Max. cross section	50 mm <sup>2</sup>
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 mm <sup>2</sup>
Max. cross section	50 mm <sup>2</sup>
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

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### Classifications

#### eCl@ss

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

<div>CSA </div>		
	B	C
mm²/AWG/kcmil	6-1/0	6-1/0

## High Current Connectors - UHV 50-AS/AS - 2130017

### Approvals

	B	C
Nominal current I <sub>N</sub>	125 A	125 A
Nominal voltage U <sub>N</sub>	600 V	600 V

UL Recognized 		
	B	C
mm²/AWG/kcmil	6-1/0	6-1/0
Nominal current I <sub>N</sub>	150 A	150 A
Nominal voltage U <sub>N</sub>	600 V	600 V

GL

RS

PRS

EAC

EAC

### Drawings

Pictogram



Circuit diagram



Dimensional drawing

