

## High Current Connectors - UHV 50-KH/KH - 2130169

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Universal terminal block with screw connection, cross section: 25 - 50 mm<sup>2</sup>, 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

### 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 mm<sup>2</sup>
- ✓ The UHV ... high-current connectors are available in several versions
- ✓ 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 | 10 pc                                                                                                   |
| GTIN         | <br>4 017918 052942 |
| GTIN         | 4017918052942                                                                                           |

### 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          | 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             |

# High Current Connectors - UHV 50-KH/KH - 2130169

## Technical data

### General

|                                  |                                                         |
|----------------------------------|---------------------------------------------------------|
| 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                                                      |

### Dimensions

|                 |          |
|-----------------|----------|
| Length          | 113.5 mm |
| Width           | 32 mm    |
| Height NS 35/15 | 78 mm    |

### Connection data

|                                                                                       |                    |
|---------------------------------------------------------------------------------------|--------------------|
| Connection method                                                                     | Screw connection   |
| Conductor cross section solid min.                                                    | 16 mm <sup>2</sup> |
| Conductor cross section solid max.                                                    | 50 mm <sup>2</sup> |
| Conductor cross section flexible min.                                                 | 25 mm <sup>2</sup> |
| Conductor cross section flexible max.                                                 | 50 mm <sup>2</sup> |
| Conductor cross section AWG min.                                                      | 6                  |
| Conductor cross section AWG max.                                                      | 1/0                |
| Conductor cross section flexible, with ferrule without plastic sleeve min.            | 25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.            | 50 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve min.               | 25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.               | 50 mm <sup>2</sup> |
| 2 conductors with same cross section, solid min.                                      | 10 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.                                      | 16 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded min.                                   | 10 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.                                   | 16 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 10 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 16 mm <sup>2</sup> |
| Stripping length                                                                      | 26 mm              |
| Screw thread                                                                          | M6                 |
| Tightening torque, min                                                                | 6 Nm               |
| Tightening torque max                                                                 | 8 Nm               |
| Power rail                                                                            | 20 mm x 3 mm       |

### Standards and Regulations

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

### Environmental Product Compliance

## High Current Connectors - UHV 50-KH/KH - 2130169

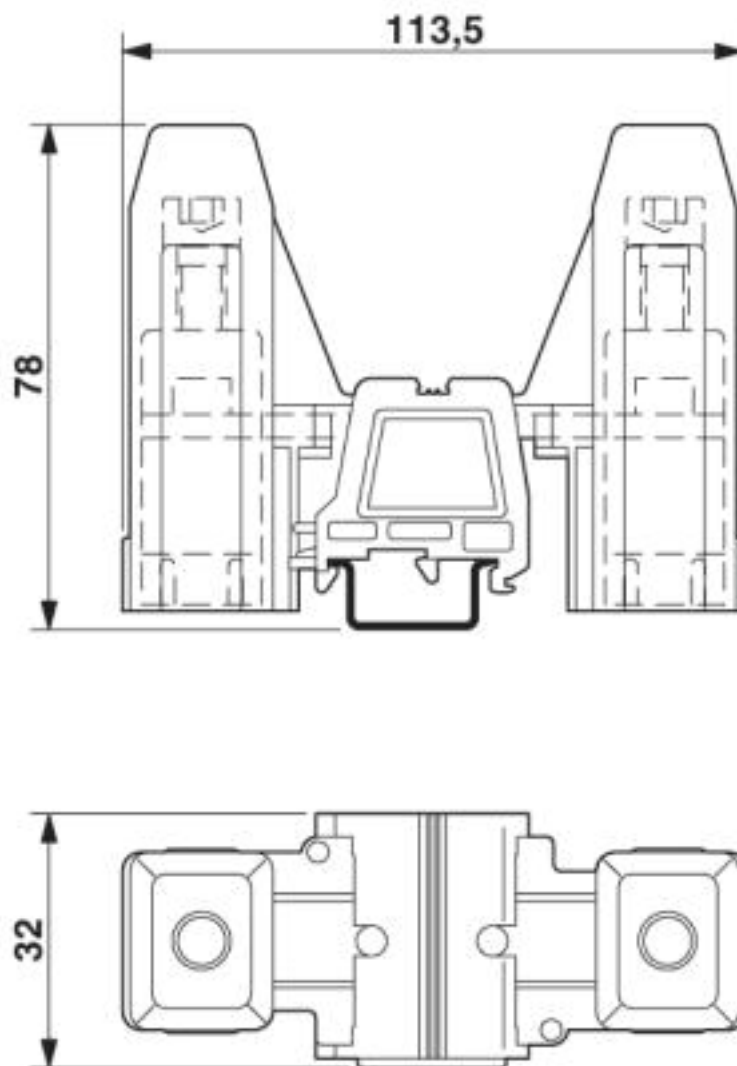
### Technical data

#### Environmental Product Compliance

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

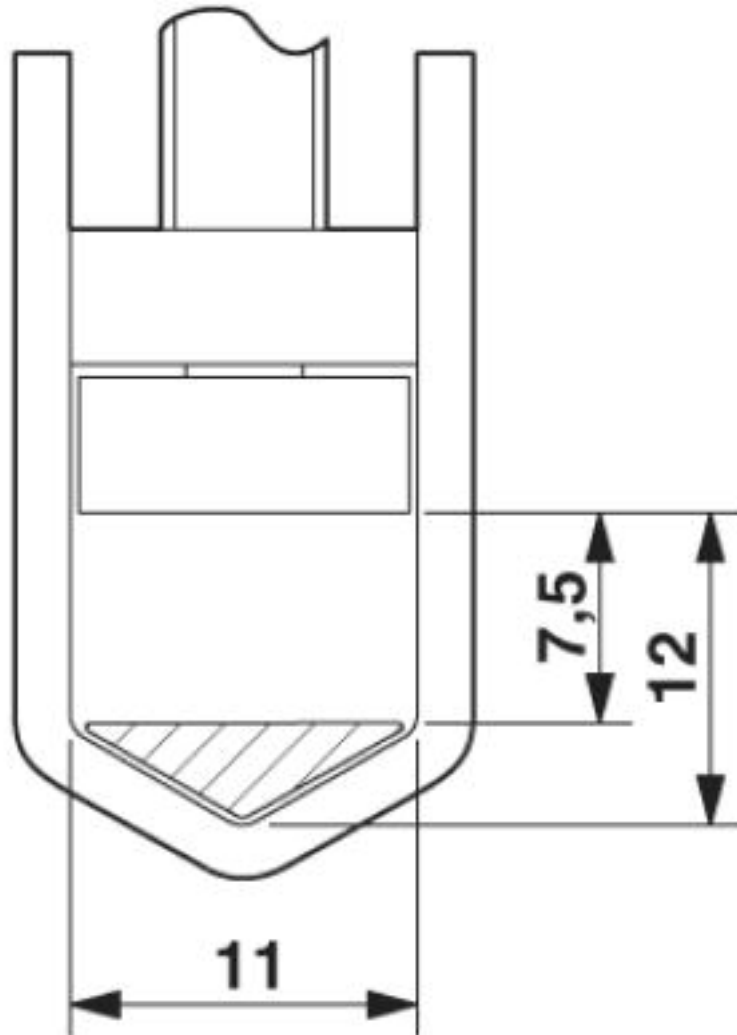
### Drawings

Dimensional drawing



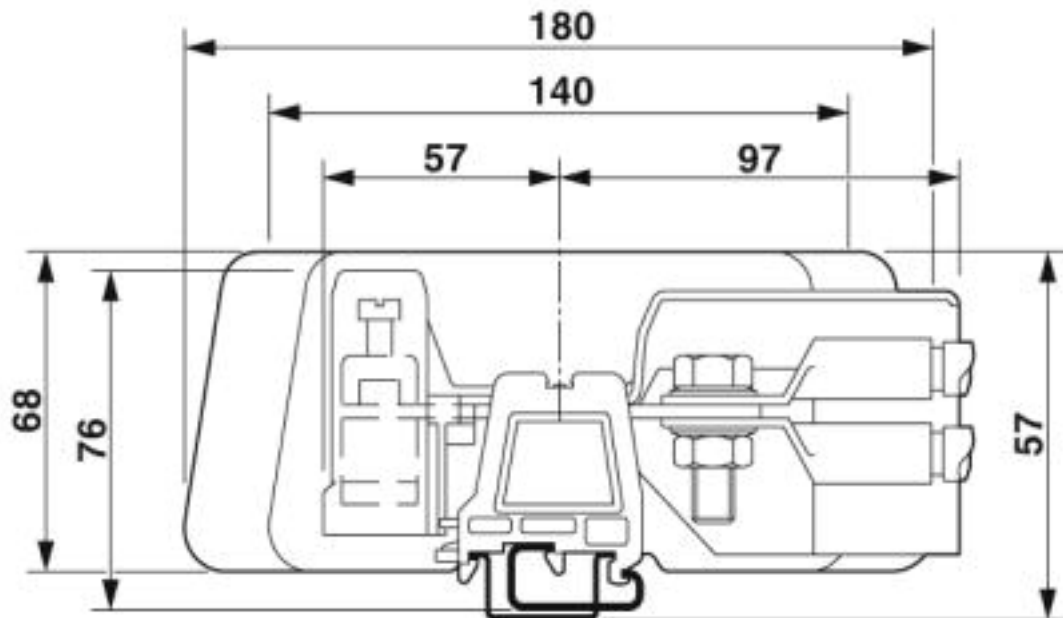
## High Current Connectors - UHV 50-KH/KH - 2130169

Dimensional drawing



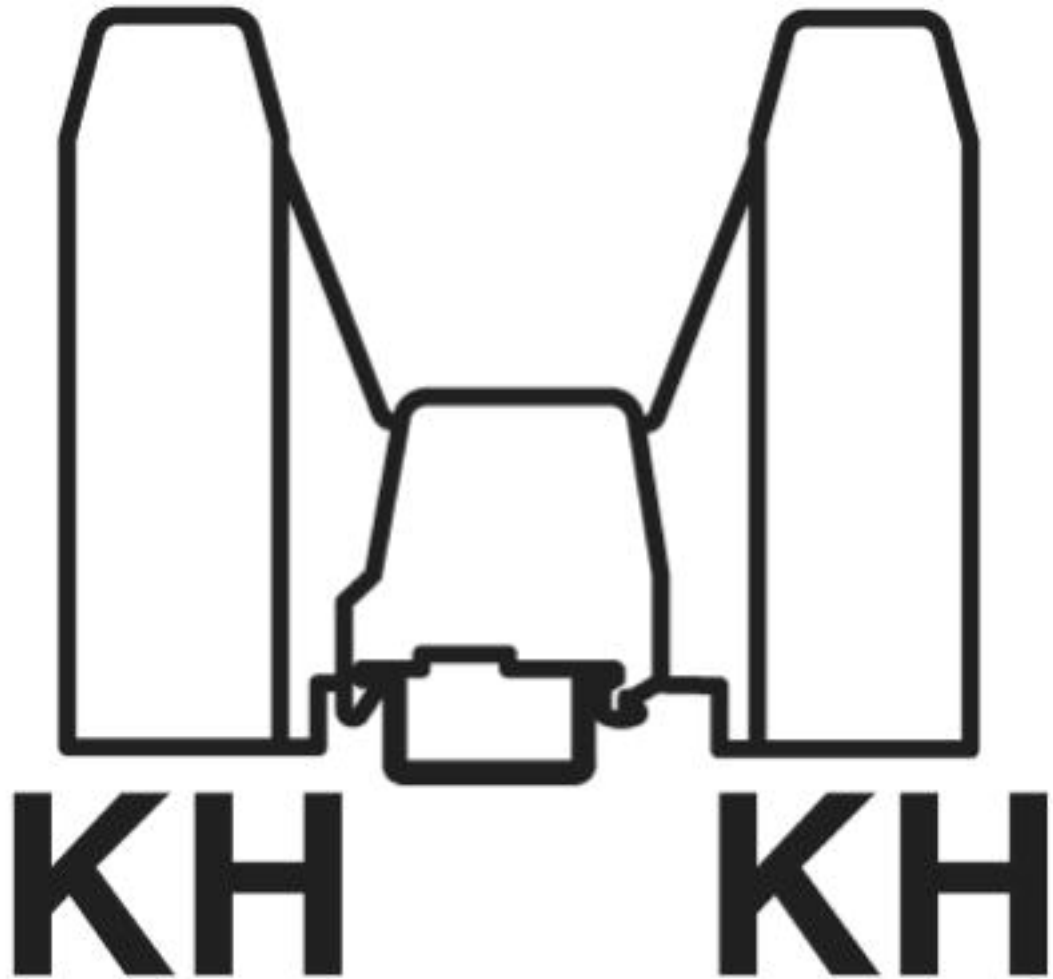
## High Current Connectors - UHV 50-KH/KH - 2130169

Dimensional drawing



## High Current Connectors - UHV 50-KH/KH - 2130169

Pictogram

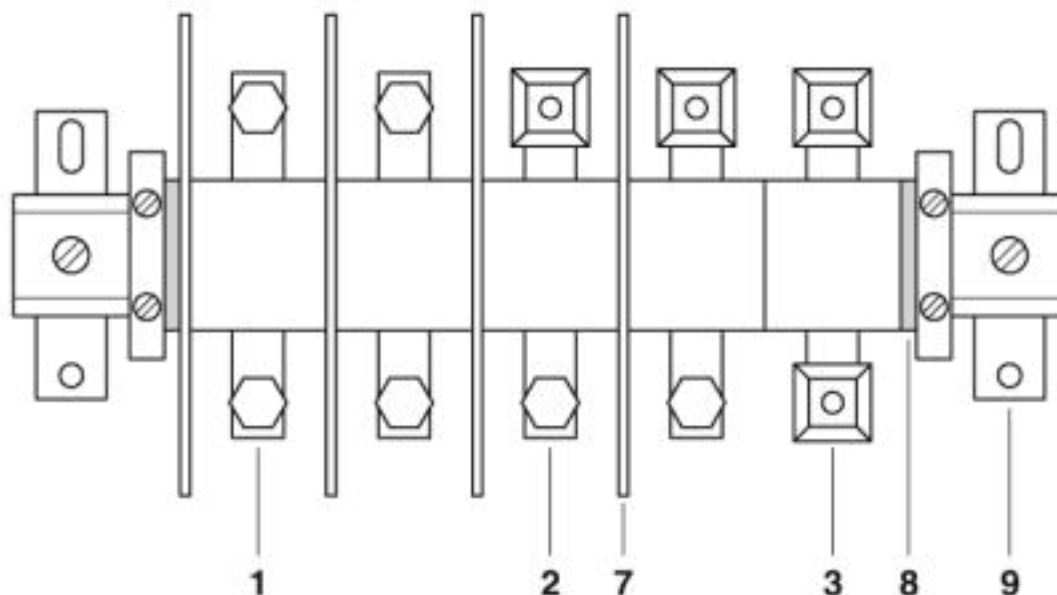


Circuit diagram



## High Current Connectors - UHV 50-KH/KH - 2130169

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

DNV GL / CSA / UL Recognized / EAC / EAC

#### Ex Approvals

#### Approval details

DNV GL



<https://approvalfinder.dnvgl.com/>

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## High Current Connectors - UHV 50-KH/KH - 2130169

### Approvals

|                    |                                                                                   |                                                                                                                                         |       |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | B                                                                                 | C                                                                                                                                       |       |
| Nominal voltage UN | 600 V                                                                             | 600 V                                                                                                                                   |       |
| Nominal current IN | 125 A                                                                             | 125 A                                                                                                                                   |       |
| mm²/AWG/kcmil      | 6                                                                                 | 6                                                                                                                                       |       |

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                    |                                                                                   |                                                                                                                                                       |              |
| Nominal voltage UN | 600 V                                                                             |                                                                                                                                                       |              |
| Nominal current IN | 150 A                                                                             |                                                                                                                                                       |              |
| mm²/AWG/kcmil      | 6                                                                                 |                                                                                                                                                       |              |

|     |                                                                                     |               |
|-----|-------------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-------------------------------------------------------------------------------------|---------------|

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00540 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

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