

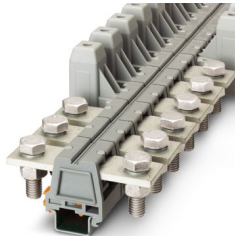
# UHV 95-AS/AS - High-current connector



2130020

<https://www.phoenixcontact.com/us/products/2130020>

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Universal terminal block with bolt connection, cross section: 35 ... 95 mm<sup>2</sup>, AWG: 2 ... 4/0, width: 40 mm, color: gray

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

## Your advantages

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2130020                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BE04                           |
| Product key                          | BE4112                         |
| GTIN                                 | 4017918052805                  |
| Weight per piece (including packing) | 299.48 g                       |
| Weight per piece (excluding packing) | 299.48 g                       |
| Customs tariff number                | 85369010                       |
| Country of origin                    | IN                             |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Bolt connection terminal block |
| Number of connections | 2                              |
| Number of rows        | 1                              |
| Potentials            | 1                              |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                     |      |
|---------------------|------|
| Rated surge voltage | 8 kV |
|---------------------|------|

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 2                  |
| Nominal cross section           | 95 mm <sup>2</sup> |
| Rated cross section AWG         | 3/0                |

#### 1 level

|                                  |   |
|----------------------------------|---|
| Connection method                | Bolt connection   |
| Stripping length                 | The stripping length depends on the specification provided by the cable lug manufacturer. |
| Busbar                           | 30 mm x 5 mm  |
| Connection in acc. with standard | IEC 60947-7-1   |
| Nominal cross section            | 95 mm <sup>2</sup>  |
| Nominal current                  | 232 A   |
| Maximum load current             | 232 A (with 95 mm <sup>2</sup> conductor cross-section)                                   |
| Nominal voltage                  | 1000 V  |

#### Cable lug connection DIN 46234:1980-03

|                                  |   |
|----------------------------------|---|
| Connection in acc. with standard | DIN 46234:1980-03                         |
| Cross section                    | 10 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Cross section range AWG          | (converted acc. to IEC)                   |
| Hole diameter                    | 13 mm                                     |
| Bolt diameter                    | 12 mm                                     |
| Screw thread                     | M12                                       |
| Tightening torque                | 25 ... 30 Nm                              |
| Connection in acc. with standard | DIN 46235:1983-07                         |
| Cross section                    | 25 mm <sup>2</sup> ... 95 mm <sup>2</sup> |
| Cross section range AWG          | (converted acc. to IEC)                   |
| Hole diameter                    | 13 mm                                     |
| Bolt diameter                    | 12 mm                                     |
| Screw thread                     | M12                                       |

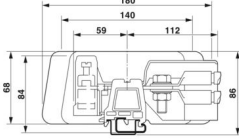
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|                   |              |
|-------------------|--------------|
| Tightening torque | 25 ... 30 Nm |
|-------------------|--------------|

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 40 mm  |

## Material specifications

|   |        |
|---|--------|
| Color   | gray   |
| Flammability rating according to UL 94                                  | V0     |
| Insulating material group   | II     |
| Insulating material   | PA     |
| Static insulating material application in cold                          | -40 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
| Relative insulation material temperature index (Elec., UL 746 B)        | 120 °C |

## Electrical tests

### Surge voltage test

|        |             |
|--------|-------------|
| Result | Test passed |
| Result | Test passed |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 kV      |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Result                  | Test passed |

## Environmental and real-life conditions

### Needle-flame test

|                  |      |
|------------------|------|
| Time of exposure | 30 s |
|------------------|------|

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## Oscillation/broadband noise

|                        |  |
|------------------------|--|
| Specification          | DIN EN 50155 (VDE 0115-200):2008-03            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$      |
| Acceleration           | 3.12g  |
| Test duration per axis | 5 h  |
| Test directions        | X-, Y- and Z-axis                              |

## Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Pulse shape                    | Semi-sinusoidal                   |
| Acceleration                   | 30g                               |
| Shock duration                 | 18 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |

## Ambient conditions

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

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |          |
|---------------|----------|
| Mounting type | NS 35/15 |
|---------------|----------|

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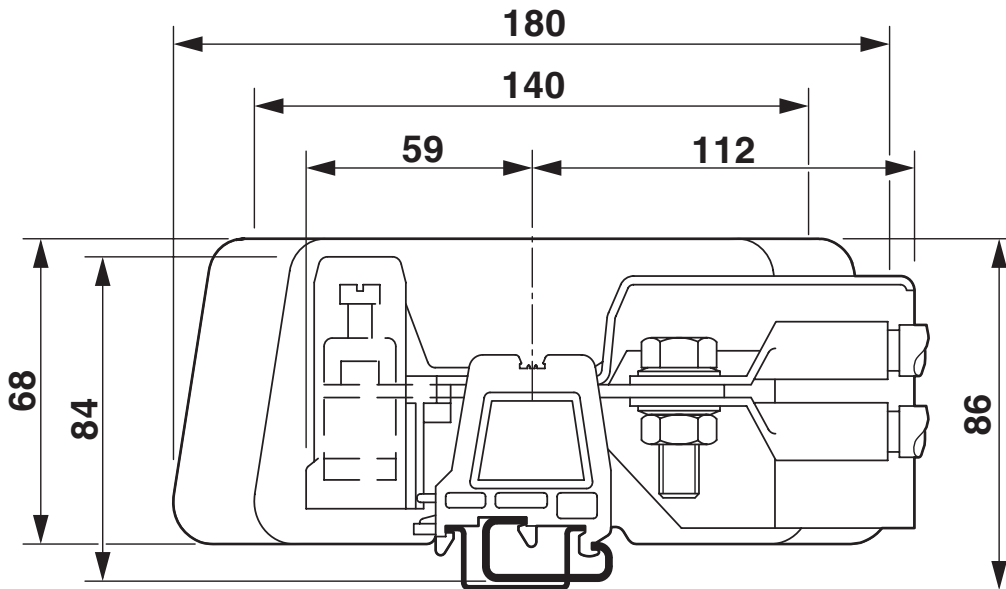


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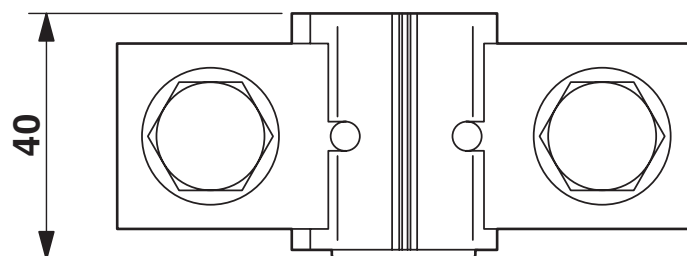
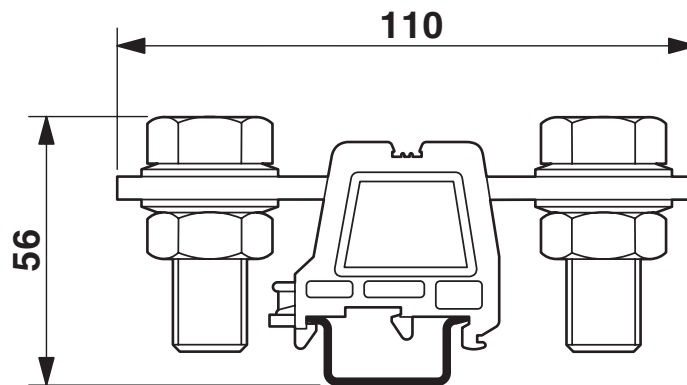
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## Drawings

Dimensional drawing



Dimensional drawing

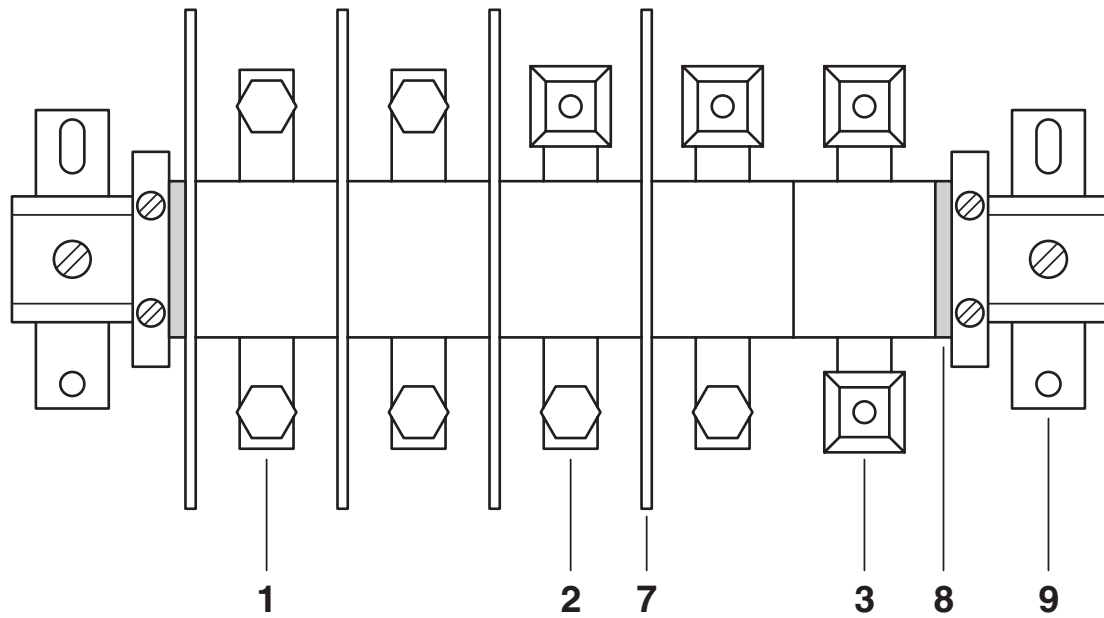


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Schematic diagram



- 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

Circuit diagram



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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121410 |
|-------------|----------|

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## Environmental product compliance

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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