

High Current Connectors - UHV 50-M10/M10 - 2130211

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Universal terminal block with bolt connection, cross section: 25 ... 50 mm², 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

Why buy this product

- ✓ 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

RoHS

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 10 STK |
| GTIN |  4 017918 052997 |
| GTIN | 4017918052997 |

Technical data

General

| | |
|--|--------------------|
| Number of levels | 1 |
| Number of connections | 2 |
| Potentials | 1 |
| Nominal cross section | 50 mm ² |
| Color | gray |
| Insulating material | PA-F |
| Flammability rating according to UL 94 | HB |
| Rated surge voltage | 8 kV |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Insulating material group | II |

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Technical data

General

| | |
|---|---|
| Maximum power dissipation for nominal condition | 4.73 W |
| Maximum load current | 150 A (with 50 mm ² conductor cross section) |
| Nominal current I_N | 150 A |
| Nominal voltage U_N | 1000 V |
| Open side panel | No |

Dimensions

| | |
|-----------------|---------|
| Width | 32 mm |
| Length | 95 mm |
| Height NS 35/15 | 54.5 mm |

Connection data

| | |
|---|--------------------|
| Connection method | Bolt connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section flexible min. | 26 mm ² |
| Conductor cross section flexible max. | 50 mm ² |
| Min. AWG conductor cross section, flexible | 3 |
| Max. AWG conductor cross section, flexible | 1/0 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 25 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 50 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 25 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 50 mm ² |
| 2 conductors with same cross section, solid min. | 10 mm ² |
| 2 conductors with same cross section, solid max. | 16 mm ² |
| 2 conductors with same cross section, stranded min. | 10 mm ² |
| 2 conductors with same cross section, stranded max. | 16 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 10 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 16 mm ² |
| Cable lug connection according to standard | DIN 46234 |
| Min. cross section for cable lug connection | 6 mm ² |
| Max. cross section for cable lug connection | 50 mm ² |
| Hole diameter, min. | 10.5 mm |
| Bolt diameter | 10 mm |
| Screw thread | M10 |
| Tightening torque, min | 25 Nm |
| Tightening torque max | 30 Nm |
| Cable lug connection according to standard | DIN 46235 |
| Min. cross section for cable lug connection | 16 mm ² |
| Max. cross section for cable lug connection | 50 mm ² |
| Hole diameter, min. | 10.5 mm |

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Technical data

Connection data

| | |
|---|-------------------|
| Bolt diameter | 10 mm |
| Screw thread | M10 |
| Tightening torque, min | 25 Nm |
| Tightening torque max | 30 Nm |
| Cable lug connection according to standard | DIN 46237 |
| Min. cross section for cable lug connection | 6 mm ² |
| Max. cross section for cable lug connection | 6 mm ² |
| Hole diameter, min. | 10.5 mm |
| Bolt diameter | 10 mm |
| Screw thread | M10 |
| Tightening torque, min | 25 Nm |
| Tightening torque max | 30 Nm |
| Stripping length | 26 mm |
| 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 | HB |

Environmental Product Compliance

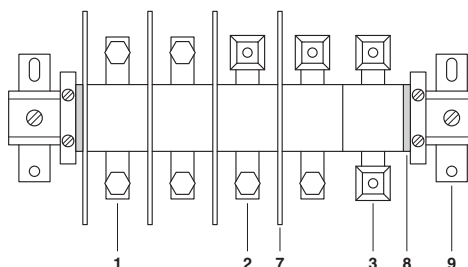
| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Circuit diagram



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

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Approvals


Approvals


Approvals

CSA / UL Recognized / EAC / DNV GL

Ex Approvals

Approval details

| | | | |
|--------------------|---|---|-------|
| CSA |  | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 125 A | 125 A | |
| mm²/AWG/kcmil | 6-1/0 | 6-1/0 | |

| | | | |
|--------------------|---|---|--------------|
| 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 | 150 A | | |
| mm²/AWG/kcmil | 6-1/0 | | |

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

| | | |
|--------|---|------------|
| DNV GL | http://exchange.dnv.com/tari/ | TAE00001CT |
|--------|---|------------|

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