

HC-M-HS-MOD-BU - Contact insert module



1605001

<https://www.phoenixcontact.com/us/products/1605001>

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HEAVYCON contact insert module, socket, 2-pos. to 100 A, axial screw connection

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1605001 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF62 |
| Product key | BF7ACB |
| Catalog page | Page 553 (C-4-2015) |
| GTIN | 4017918893309 |
| Weight per piece (including packing) | 71.1 g |
| Weight per piece (excluding packing) | 71.1 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

Technical data

Notes

| | |
|---------|--|
| General | For HEAVYCON HC-B6 to B48 housing (housing height: min. 72 mm), HC-M-MHR... hinged retaining frame required, axial connection for 4 mm Allen key |
|---------|--|

Mounting

| | |
|-----------------------|--|
| Assembly instructions | <p>Use HC housing $h \geq 72$ mm. Connection of the wires using a 4 mm. Allen wrench.</p> <p>Axial screw connection only for stranded wires.</p> <p>Plug-in connections may only be operated only when there is no load/voltage.</p> |
| | <p>Note for axial connection method</p> <p>The specified conductor cross sections refer to the geometric cross section of the used conductor.</p> <p>The use of conductors with a geometric cross section that deviates greatly from the nominal cross section of the conductor should be checked first.</p> <p>The wiring space of the axial screw technology has been designed for fine strand conductors as per VDE 0295 class 5. Deviating conductor superstructures (e.g. class 6 conductors) must be checked before use.</p> <p>Connection</p> <p>It must be ensured before installation that the ball screw is completely turned back (chamber is open). Twisting the conductors is not allowed. The cores must be pushed up to the end of the contact chamber (until the contact is insulated). Keep the core in this position and tighten it using an Allen key. The required core end must be cut before a reconnection. Tightening the connection screw is allowed only once in order to prevent a breakage of the litz wire.</p> |
| Hexagonal socket | SW 4 |

Product properties

| | |
|------------------------|------------------------|
| Product type | Modular contact insert |
| Number of positions | 2 |
| Connection profile | 2 |
| Contact numbering | 1 - 2 |
| Application | Power |
| Number of module slots | 2 |
| Series | HC-M-HS |

Insulation characteristics

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

Connection data

Connection technology

| | |
|-----------------------|------------------------|
| Connection technology | Axial screw connection |
|-----------------------|------------------------|

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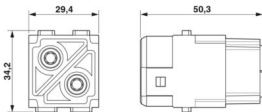
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Conductor connection

| | |
|---|---|
| Conductor cross section | 16 mm ² ... 35 mm ² (The cross section specification refers to the geometric cross section of the cable used) |
| Connection cross section AWG | 4 ... 2 |
| Tightening torque | 6 Nm (16 mm ²) |
| | 7 Nm (25 mm ²) |
| | 8 Nm (35 mm ²) |
| Stripping length of the individual wire | 13 mm |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 34.2 mm |
| Height | 50.3 mm |
| Length | 29.4 mm |

Mechanical characteristics

| | |
|------------------------|-------|
| Minimum housing height | 72 mm |
|------------------------|-------|

Electrical properties

| | |
|-----------------------|---------|
| Rated voltage (III/3) | 1000 V |
| Rated surge voltage | 8 kV |
| Rated current | 100 A |
| Test voltage | 4 kV AC |

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 500 |
|-----------------------------|-------|

Material specifications

| | |
|--|--------------|
| Flammability rating according to UL 94 | V0 |
| Contact material | Copper alloy |
| Contact surface material | Ag |
| Contact carrier material | PC |

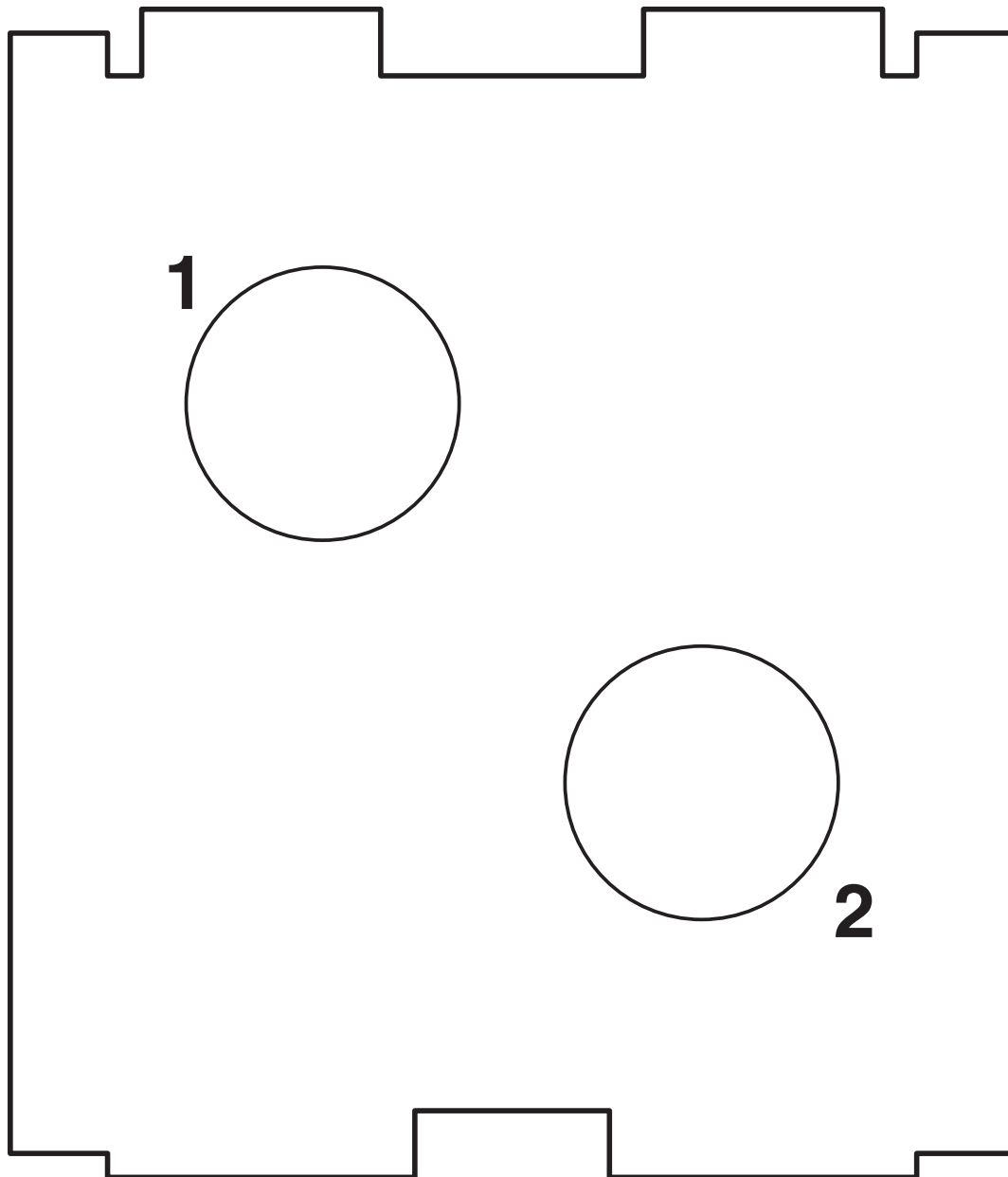
Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
|---------------------------------|-------------------|

Drawings

Schematic diagram



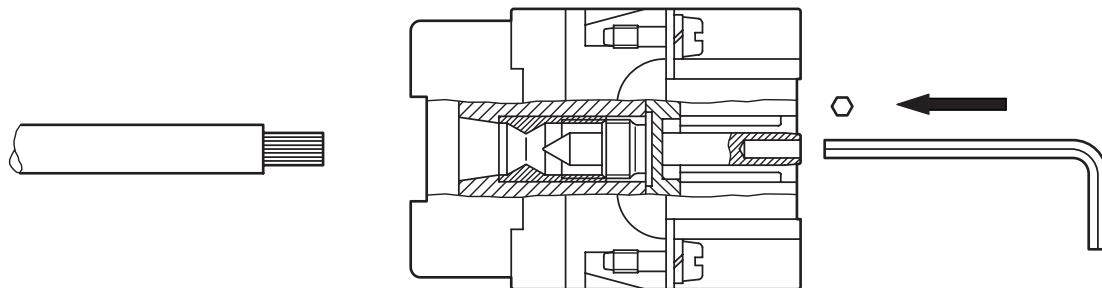
Connector pin assignment

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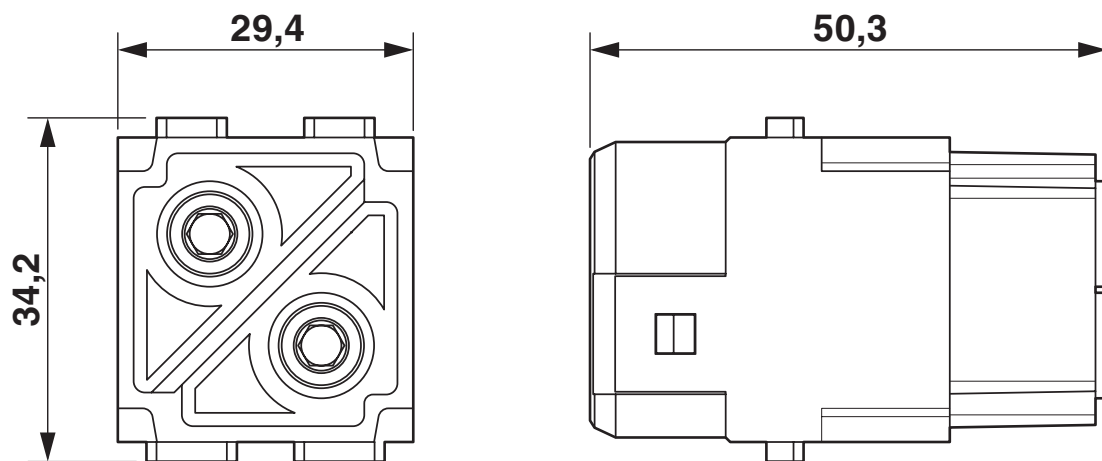
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Schematic diagram

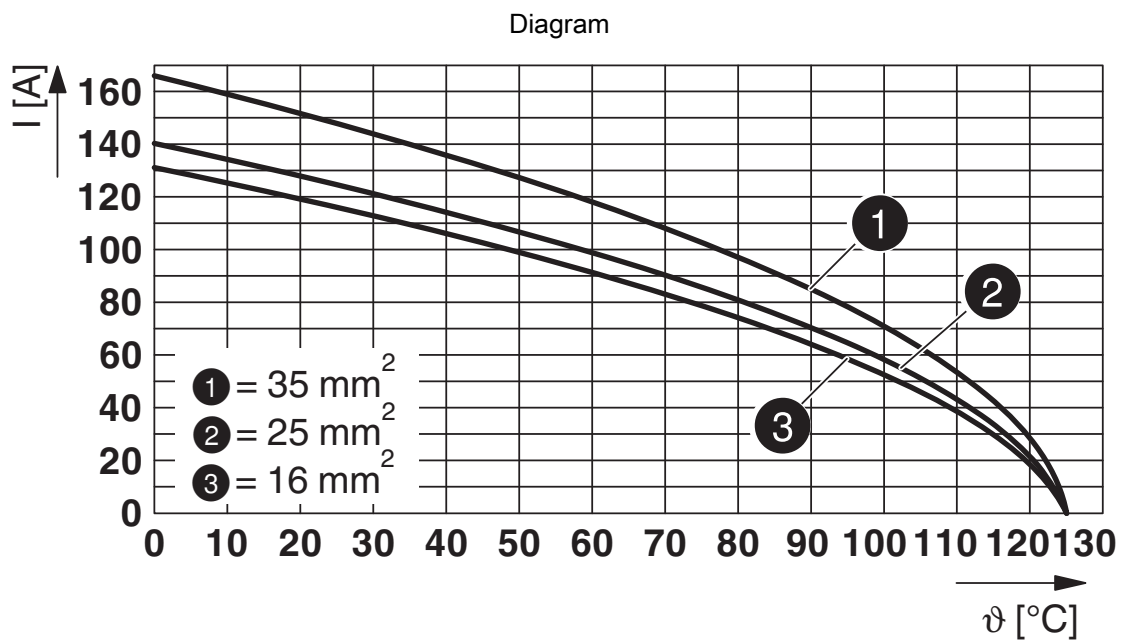


Axial connection

Dimensional drawing



Socket module



Derating diagram

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27440217 |
| ECLASS-12.0 | 27440217 |
| ECLASS-13.0 | 27440217 |

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Environmental product compliance

| | |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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