

# HC-M-HS-MOD-ST - Contact insert module



1605000

<https://www.phoenixcontact.com/pc/products/1605000>

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

## Commercial data

Item number	1605000
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF7ACB
Catalog page	Page 553 (C-4-2015)
GTIN	4017918893293
Weight per piece (including packing)	70.1 g
Weight per piece (excluding packing)	69.9 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
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### Mounting

Assembly note	<ul style="list-style-type: none"> <li>- Use HC housing <math>h \geq 72</math> mm</li> <li>- Connection of wires using a 4 mm Allen wrench</li> <li>- Axial screw connection only for stranded wires</li> <li>- Plug-in connections may only be operated only when there is no load/voltage</li> </ul>
	<p><b>Note for axial connection method</b></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><b>Connection</b></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
Series	HC-M-HS
Application	Power
Number of positions	2
Connection profile	2
Contact numbering	1 - 2
Number of module slots	2

#### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

#### Connection technology

Connection technology	Axial screw connection
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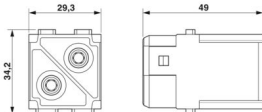
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## Conductor connection

Conductor cross section	16 mm <sup>2</sup> ... 35 mm <sup>2</sup> (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 <sup>2</sup> )
	7 Nm (25 mm <sup>2</sup> )
	8 Nm (35 mm <sup>2</sup> )
Stripping length of the individual wire	13 mm

## Dimensions

Dimensional drawing	
Width	34.2 mm
Height	49 mm
Length	29.4 mm

## Mechanical characteristics

Minimum housing height	72 mm
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## 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
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## 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
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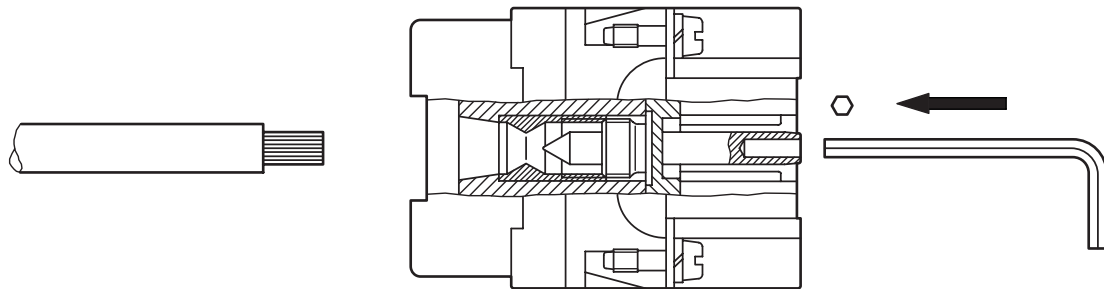


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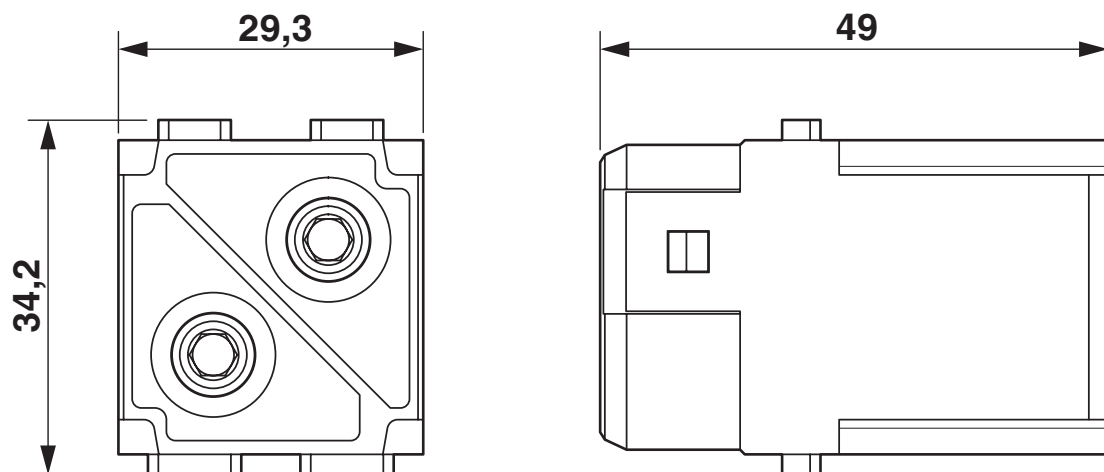
## Drawings

Schematic diagram



Axial connection

Dimensional drawing



Male insert

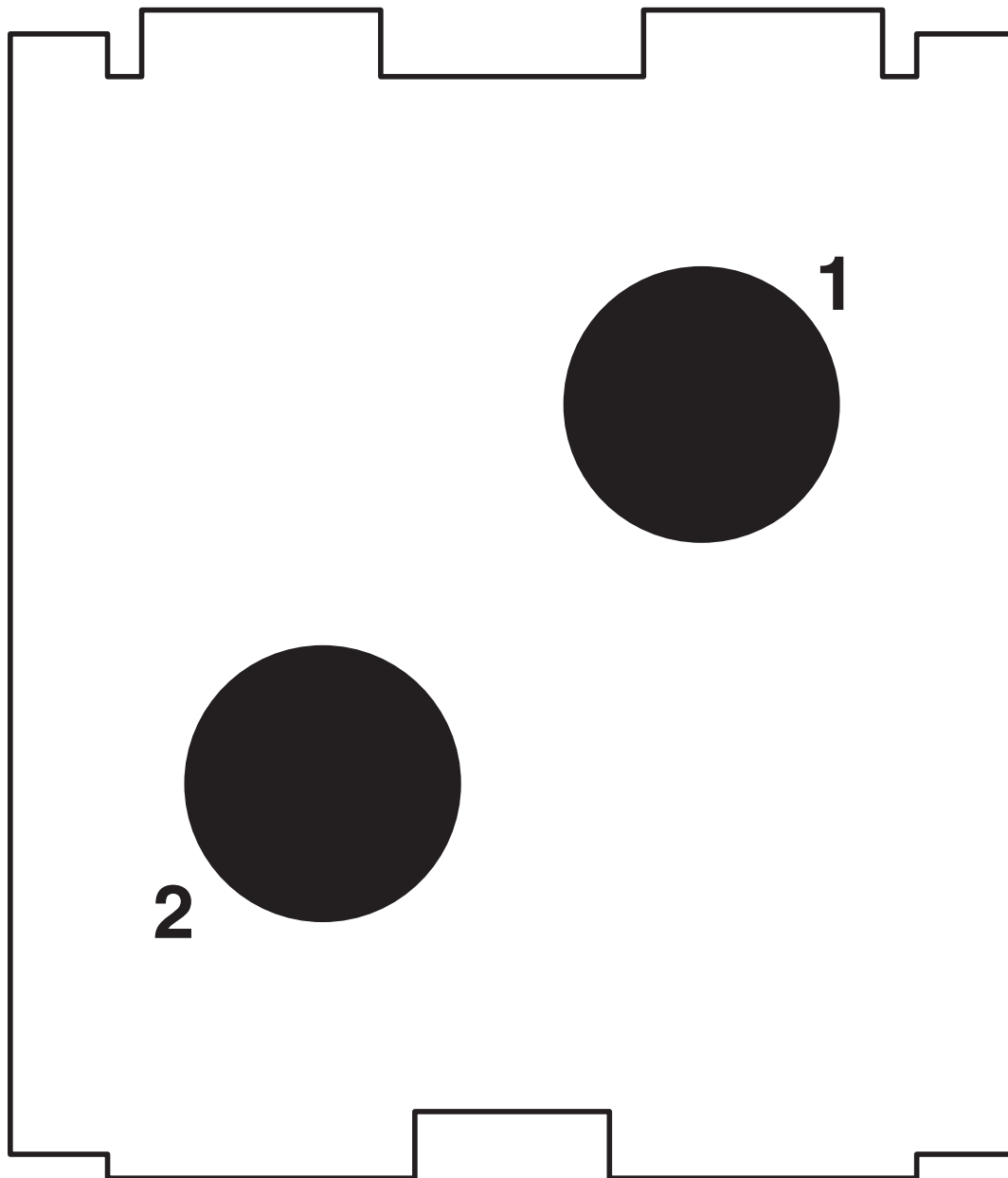
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Schematic diagram



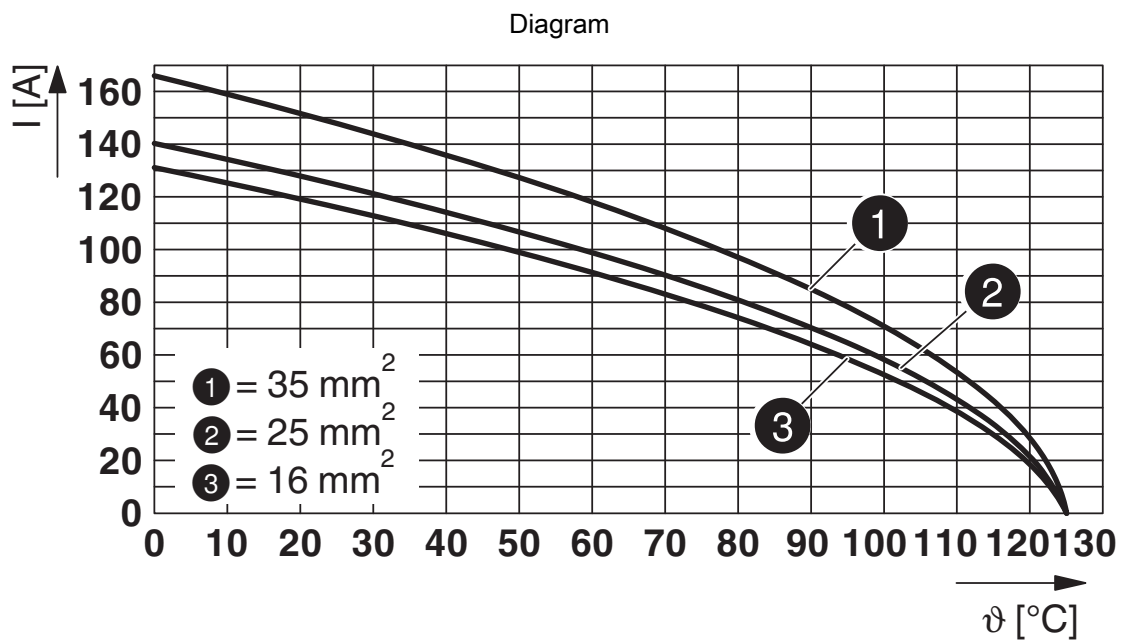
Connector pin assignment

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Derating diagram

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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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## Accessories

### HC-M-MHR-PE16 - Cable lug

1636981

<https://www.phoenixcontact.com/pc/products/1636981>



Cable lug for HEAVYCON-MODULAR; PE connection extension to 16 mm<sup>2</sup>, for crimping with crimp pliers

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