

# HC-M-02-HS-70/16-MOD-BU - Contact insert module



1585715

<https://www.phoenixcontact.com/us/products/1585715>

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HEAVYCON contact insert module, socket, 2-pos. to 70 A, 16 mm<sup>2</sup> axial screw connection



## Commercial data

Item number	1585715
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF62
Product key	AF7ACB
GTIN	4046356308212
Weight per piece (including packing)	31.2 g
Weight per piece (excluding packing)	31.2 g
Customs tariff number	85366990
Country of origin	DE

## Technical data

### Mounting

<p>Assembly note</p>	<p>Use 2.5 mm Allen wrenches for axial connection. Only for stranded wires. For housing heights <math>h \geq 52</math> mm. Plug-in connections may only be operated only when there is no load/voltage.</p>
	<p><b>Note regarding axial connection technology:</b>                  Only for stranded wires. The specified conductor cross-sections refer to the geometric cross section of the cable used. Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use.                  The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before use.</p> <p><b>Assembly instructions</b>                  Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be cut off before reconnection. The terminal screw must only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct execution, see DIN VDE 0100-520:2003-06. Unused connections must be tightened with maximum torque.</p>
<p>Hexagonal socket</p>	<p>SW2,5</p>

### Product properties

<p>Product type</p>	<p>Modular contact insert</p>
<p>Series</p>	<p>HC-M-HS</p>
<p>Application</p>	<p>Power</p>
<p>Number of positions</p>	<p>2</p>
<p>Connection profile</p>	<p>2</p>
<p>Contact numbering</p>	<p>1 - 2</p>
<p>Number of module slots</p>	<p>1</p>
<p>Insulation characteristics</p>	
<p>Overvoltage category</p>	<p>III</p>
<p>Degree of pollution</p>	<p>3</p>

### Connection data

<p>Connection technology</p>	
<p>Connection technology</p>	<p>Axial screw connection</p>

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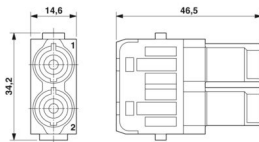
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## Conductor connection

Conductor cross-section	6 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Connection cross section AWG	8 ... 6
Tightening torque	2 Nm (6 mm <sup>2</sup> )
	3 Nm (10 mm <sup>2</sup> )
	4 Nm (16 mm <sup>2</sup> )
Stripping length of the individual wire	11 mm +1 mm

## Dimensions

Dimensional drawing	
Width	34.2 mm
Height	46.5 mm
Length	14.6 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	70 A

## 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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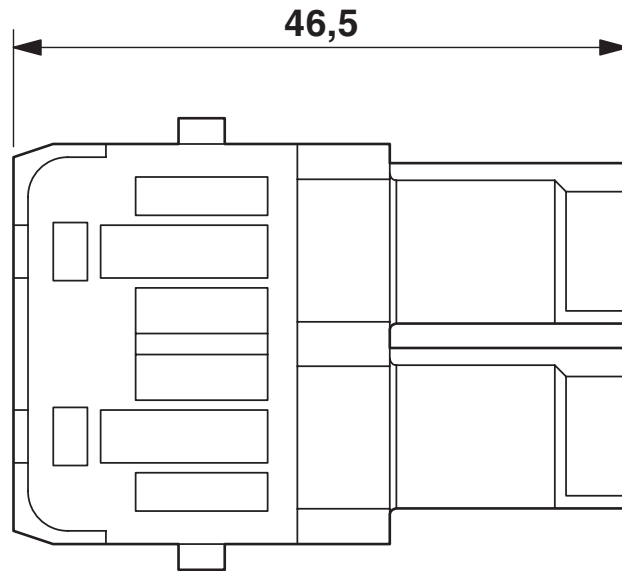
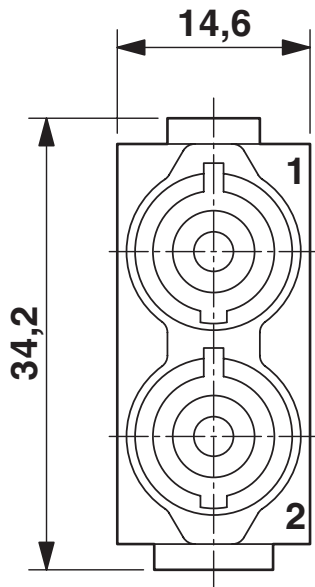


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## Drawings

Dimensional drawing

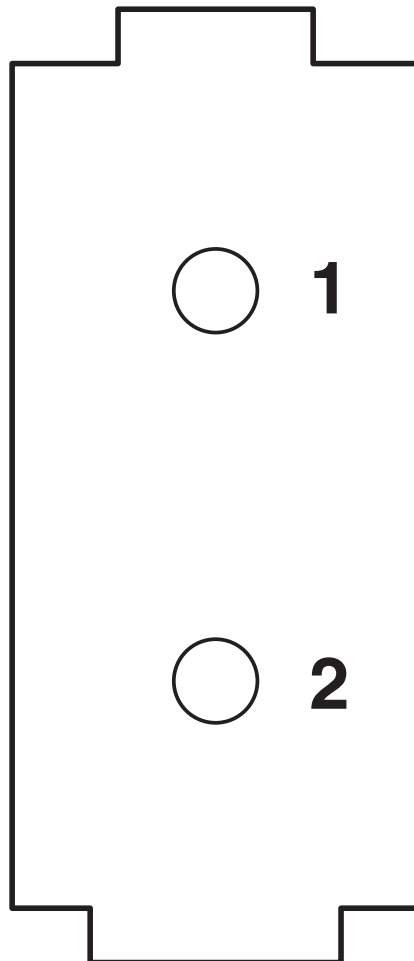


Socket module

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Schematic diagram

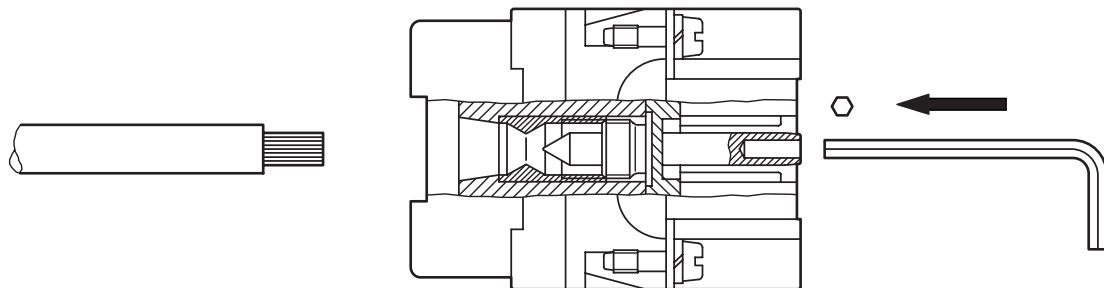


Connector pin assignment, connection side

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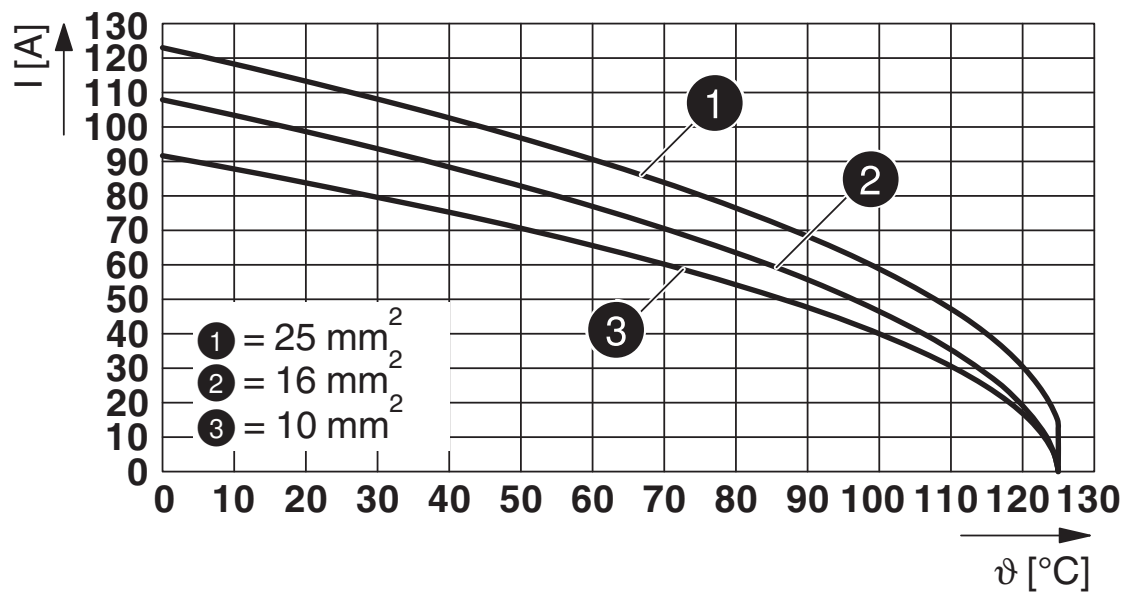
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Schematic diagram



Axial screw connection

Diagram



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.
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### EU REACH SVHC

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