

# Contact insert module - HC-M-01-AT-M-40 - 1417381


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Contact insert module, Number of positions: 1, Pin, Axial screw connection, 1000 V, 200 A, 25 mm<sup>2</sup> ... 70 mm<sup>2</sup>, Application: Power



## Key Commercial Data

Packing unit	2 STK
Minimum order quantity	2 STK
GTIN	 4 055626 112626
GTIN	4055626112626

## Technical data

### Dimensions

Height	54.5 mm
Width	34.2 mm
Length	29.4 mm

### Electrical characteristics

Note	Required for housing HC-B6 to B48, (housing height min. 72 mm), housing HC-ADVANCE-B6 to B24, hinged retaining frame HC-M-MHR..., axial connection for 5 mm Allen wrench
Rated voltage (III/3)	1000 V
Rated current	200 A
Rated surge voltage	8 kV
Connection profile	1

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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### Mechanical characteristics

Conductor cross section	25 mm <sup>2</sup> ... 70 mm <sup>2</sup> (The cross section specification refers to the geometric cross section of the cable used)
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## Technical data

### Mechanical characteristics

Connection cross section AWG	3 ... 00
Stripping length of the individual wire	16 mm
Tightening torque	8 Nm (25 mm <sup>2</sup> ... 35 mm <sup>2</sup> )
	9 Nm (50 mm <sup>2</sup> )
	10 Nm (70 mm <sup>2</sup> )
Wire diameter including insulation	12 mm (25 mm <sup>2</sup> )
	16 mm (40 mm <sup>2</sup> )
Hexagonal socket	WAF 5
Insertion/withdrawal cycles	≥ 500
Minimum housing height	72 mm

### General

Series	HC-M-HS
Color	light gray
Number of module slots	2
Connection method	Axial screw connection
Flammability rating according to UL 94	V0
Degree of pollution	3
Overvoltage category	III
Assembly instructions	<ul style="list-style-type: none"> <li>- Use only flexible conductors,</li> <li>- Connection of wires with 5 mm an Allen wrench,</li> <li>- Housing height <math>h \geq 72</math> mm,</li> <li>- Connectors may only be operated without load/voltage.</li> </ul>
Connection	<p>Note regarding axial connection technology:                      Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used.                      Use of cables with a geometric cross section very different from the cable's nominal cross section should be checked before use.                      The wiring space of the axial screw method is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) should be checked before use.</p> <p>Connection                      Before starting to connect, ensure that the tapered screw is turned back all the way (chamber is open). The cables must not be twisted. The wires should be inserted as far as they will go in the contact chamber (until the insulation touches the contact). Hold wires in position and use socket wrench to tighten. The used wire end should be cut off before connecting again. The connection screw may only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable should be mechanically intercepted at an appropriate distance from the connection point (e.g., by using a plate cutout). DIN VDE 0100-520:2003-06 contains information on how to do this correctly. The module cannot be used simultaneously with the HC-B..-TMB-SD-IP65 and HC-B..-TMS-SD-IP65 protective covers.</p>

### Material data

Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC

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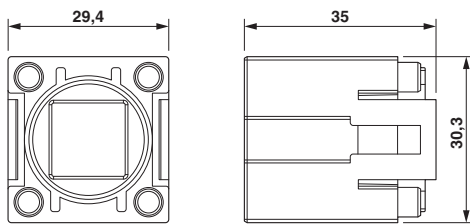
## Technical data

### Standards and Regulations

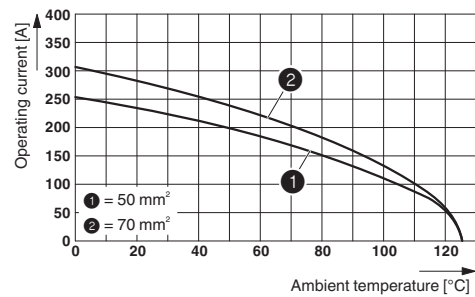
Flammability rating according to UL 94	V0
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## Drawings

Dimensional drawing



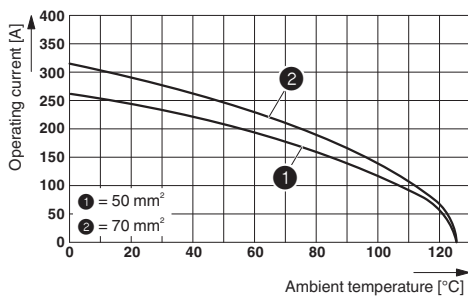
Diagram



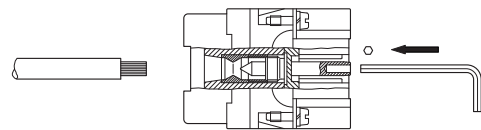
### Male insert

Derating diagram (3 modules in HC-B 24 housing)

Diagram



Schematic diagram



Axial screw connection

### Two modules in B24 housing

## Approvals

### Approvals

Approvals

EAC / CSA / UL Recognized


Ex Approvals


### Approval details

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## Approvals

EAC		<a href="http://www.eurasiancertification.com/">http://www.eurasiancertification.com/</a>	7500651.22.01.00246
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CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	13631
mm <sup>2</sup> /AWG/kcmil	00		
Nominal current I <sub>N</sub>	116 A		
Nominal voltage U <sub>N</sub>	600 V		

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E118976
mm <sup>2</sup> /AWG/kcmil	2		
Nominal current I <sub>N</sub>	146 A		
Nominal voltage U <sub>N</sub>	600 V		

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