

## Contact insert module - HC-M-02-AT-F-35 - 1417390

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Contact insert module, Number of positions: 2, Socket, Axial screw connection, 1000 V, 100 A, 10 mm<sup>2</sup> ... 35 mm<sup>2</sup>, Application: Power

RoHS

### Key Commercial Data

Packing unit	1 STK
Minimum order quantity	2 STK
GTIN	 4 055626 112701
GTIN	4055626112701
Weight per Piece (excluding packing)	70.000 g
Custom tariff number	85366990
Country of origin	Poland

### Technical data

#### Dimensions

Height	50.3 mm
Width	34.2 mm
Length	29.4 mm

#### Electrical characteristics

Note	For HEAVYCON HC-B6 to B48 housing, snap-in module frame required, axial connection for 4 mm Allen key
Rated voltage (III/3)	1000 V
Rated current	100 A
Rated surge voltage	8 kV
Connection profile	2

# Contact insert module - HC-M-02-AT-F-35 - 1417390

## Technical data

### Ambient conditions

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

Conductor cross section	10 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
Stripping length of the individual wire	13 mm
Tightening torque	6 Nm (10 mm <sup>2</sup> ... 16 mm <sup>2</sup> )
	7 Nm (25 mm <sup>2</sup> )
	8 Nm (35 mm <sup>2</sup> )
Wire diameter including insulation	11.4 mm
Hexagonal socket	SW 4
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	Use HC housing h ≥ 72 mm. Connection of the wires using a 4 mm. Allen wrench. Axial screw connection only for stranded wires. Plug-in connections may only be operated only when there is no load/voltage.
Connection	Note for axial connection method The specified conductor cross sections refer to the geometric cross section of the used conductor. The use of conductors with a geometric cross section that deviates greatly from the nominal cross section of the conductor should be checked first. 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. Connection 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.

### Material data

# Contact insert module - HC-M-02-AT-F-35 - 1417390

## Technical data

### Material data

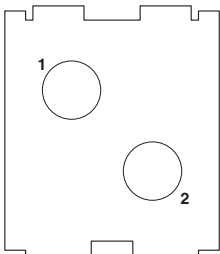
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC

### Standards and Regulations

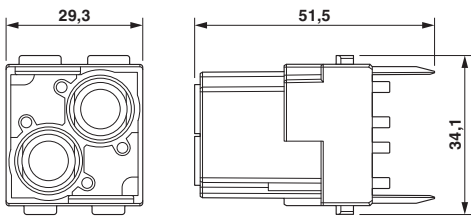
Flammability rating according to UL 94	V0
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## Drawings

Schematic diagram



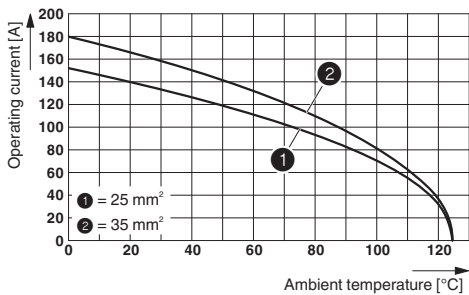
Dimensional drawing



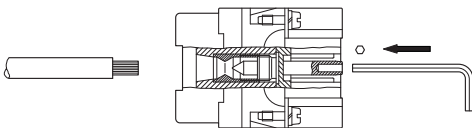
Socket module

Connector pin assignment

Diagram



Schematic diagram



Axial connection

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

## Classifications

eCl@ss

eCl@ss 5.1	27143424
eCl@ss 6.0	27143424
eCl@ss 8.0	27440205
eCl@ss 9.0	27440217

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### Classifications

#### ETIM

ETIM 5.0	EC000438
ETIM 6.0	EC000438

#### UNSPSC

UNSPSC 13.2	39121421
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### Approvals


#### Approvals


#### Approvals


EAC / CSA / UL Recognized

#### Ex Approvals

#### Approval details

EAC		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
mm²/AWG/kcmil		2	
Nominal current I <sub>N</sub>		100 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
mm²/AWG/kcmil		2	
Nominal current I <sub>N</sub>		127 A	
Nominal voltage U <sub>N</sub>		600 V	

## Contact insert module - HC-M-02-AT-F-35 - 1417390

### Accessories

#### Accessories

#### Module carrier frame

##### Module carrier frame - HC-M-B06-MF-B - 1417398



Module carrier frame, Size: B6, Type: for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, Application: Module carrier frame

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##### Module carrier frame - HC-M-B10-MF-B - 1417399



Module carrier frame, Size: B10, Type: for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, Application: Module carrier frame

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##### Module carrier frame - HC-M-B16-MF-B - 1417400



Module carrier frame, Size: B16, Type: for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, Application: Module carrier frame

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##### Module carrier frame - HC-M-B24-MF-B - 1417402



Module carrier frame, Size: B24, Type: for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, Application: Module carrier frame

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##### Module carrier frame - HC-M-B06-MF-H - 1417403



Module carrier frame, Size: B6, Type: for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, Application: Module carrier frame

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### Accessories

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#### Module carrier frame - HC-M-B10-MF-H - 1417404



Module carrier frame, Size: B10, Type: for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, Application: Module carrier frame

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#### Module carrier frame - HC-M-B16-MF-H - 1417405



Module carrier frame, Size: B16, Type: for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, Application: Module carrier frame

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#### Module carrier frame - HC-M-B24-MF-H - 1417406



Module carrier frame, Size: B24, Type: for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, Application: Module carrier frame

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### Mounting material

#### Cable lug - HC-M-MHR-PE16 - 1636981



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

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### Torque tool

## Contact insert module - HC-M-02-AT-F-35 - 1417390

### Accessories

Torque screwdriver - TSD-M 6NM - 1212226



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 3 - 6 Nm

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