

Contact insert module - HC-M-02-AT-F-16 - 1417296

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HEAVYCON contact insert module, socket, 2-pos. to 70 A, 16 mm² axial screw connection



Key Commercial Data

Packing unit	1 STK
Minimum order quantity	2 STK
GTIN	 4 055626 111490
GTIN	4055626111490
Weight per Piece (excluding packing)	30.000 g
Custom tariff number	85366990
Country of origin	Poland

Technical data

Dimensions

Height	46.5 mm
Width	34.2 mm
Length	14.6 mm

Electrical characteristics

Note	For HEAVYCON HC-B6 to B48 housing, HC-M-MHR... hinged retaining frame required, axial connection for 2.5 mm Allen key
Rated voltage (III/3)	1000 V
Rated current	70 A
Rated surge voltage	8 kV
Connection profile	2

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Technical data

Ambient conditions

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

Conductor cross section	6 mm ² ... 25 mm ² (The cross section specification refers to the geometric cross section of the cable used)
Connection cross section AWG	8 ... 6
Stripping length of the individual wire	11 mm +1 (6 mm ² ... 16 mm ²)
	12.5 mm +1 (25 mm ²)
Tightening torque	2 Nm (6 mm ²)
	3 Nm (10 mm ² ... 25 mm ²)
Wire diameter including insulation	8.9 mm
Hexagonal socket	SW2,5
Insertion/withdrawal cycles	≥ 500
Minimum housing height	72 mm

General

Series	HC-M-02
Color	light gray
Number of module slots	1
Connection method	Axial screw connection
Connection in acc. with standard	IEC / EN
Flammability rating according to UL 94	V0
Degree of pollution	3
Overvoltage category	III
Assembly instructions	Use 2.5 mm Allen wrenches for axial connection. Only for stranded wires. For housing heights h ≥ 52 mm. Plug-in connections may only be operated only when there is no load/voltage.
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. 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>Assembly instructions 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</p>

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Technical data

General

	0100-520:2003-06. Unused connections must be tightened with maximum torque.
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Material data

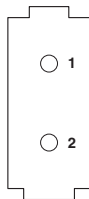
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC

Standards and Regulations

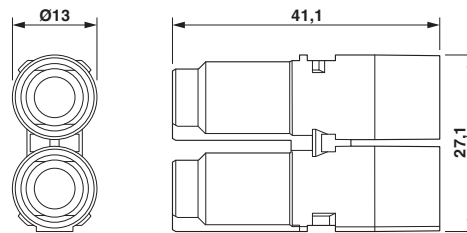
Connection in acc. with standard	IEC / EN
Flammability rating according to UL 94	V0

Drawings

Schematic diagram



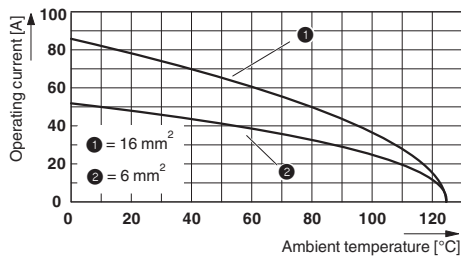
Dimensional drawing



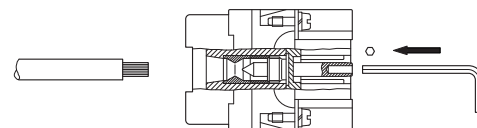
Connector pin assignment, connection side

Socket module

Diagram



Schematic diagram



Axial screw connection

Derating diagram (6 modules in HC-B 24 housing)

Classifications

eCI@ss

eCI@ss 5.1	27143424
eCI@ss 6.0	27143424

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Classifications

eCl@ss

eCl@ss 8.0	27440205
eCl@ss 9.0	27440217

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		http://www.csagroup.org/services/testing-and-certification/certified-product-listing/	13631
mm ² /AWG/kcmil	6		
Nominal current I _N	54 A		
Nominal voltage U _N	600 V		

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Approvals

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E118976
mm ² /AWG/kcmil		6	
Nominal current I _N		69 A	
Nominal voltage U _N		600 V	

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 mm² ... 6 mm², Application: Module carrier frame

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



Module carrier frame, Size: B10, Type: for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², Application: Module carrier frame

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



Module carrier frame, Size: B16, Type: for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², Application: Module carrier frame

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Accessories

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



Module carrier frame, Size: B24, Type: for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², Application: Module carrier frame

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



Module carrier frame, Size: B6, Type: for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², Application: Module carrier frame

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



Module carrier frame, Size: B10, Type: for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², Application: Module carrier frame

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



Module carrier frame, Size: B16, Type: for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², Application: Module carrier frame

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



Module carrier frame, Size: B24, Type: for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², Application: Module carrier frame

Mounting material

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Accessories

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



Cable lug for HEAVYCON-MODULAR; PE connection extension to 16 mm², for crimping with crimp pliers

Torque tool

Torque screwdriver - TSD-M 3NM - 1212225



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1.2 - 3 Nm
