

Contact insert module - HC-M-01-AT-F-40 - 1417379


Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid
(<http://phoenixcontact.com/download>)



Contact insert module, number of positions: 1, power contacts: 1, control contacts: 0, Socket, Axial screw connection, 1000 V, 200 A, 25 mm² ... 70 mm², application: Power

RoHS

Key Commercial Data

Packing unit	2 STK
Minimum order quantity	2 STK
GTIN	 4 055626 112602
GTIN	4055626112602

Technical data

Dimensions

Height	60 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
---------------------------------	-------------------

Mechanical characteristics

Conductor cross section	25 mm² ... 70 mm² (The cross section specification refers to the geometric cross section of the cable used)
-------------------------	---

Contact insert module - HC-M-01-AT-F-40 - 1417379

Technical data

Mechanical characteristics

Connection cross section AWG	4 ...
Stripping length of the individual wire	16 mm
Tightening torque	8 Nm (25 mm² ... 35 mm²)
	9 Nm (50 mm²)
	10 Nm (70 mm²)
Contact diameter	9.5 mm
Wire diameter including insulation	12 mm (25 mm²)
	16 mm (40 mm²)
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
Contact type	turned
Flammability rating according to UL 94	V0
Degree of pollution	3
Overvoltage category	III
Assembly instructions	<ul style="list-style-type: none"> - Use only flexible conductors, - Connection of wires with 5 mm an Allen wrench, - Housing height $h \geq 72$ mm, - Connectors may only be operated without 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. 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 insert module - HC-M-01-AT-F-40 - 1417379

Technical data

Material data

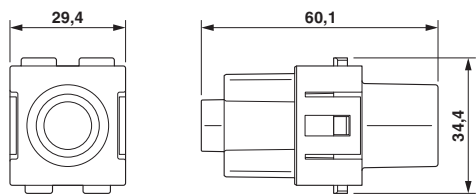
Contact carrier material	PC
--------------------------	----

Standards and Regulations

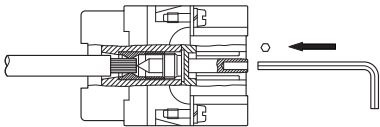
Flammability rating according to UL 94	V0
--	----

Drawings

Dimensional drawing

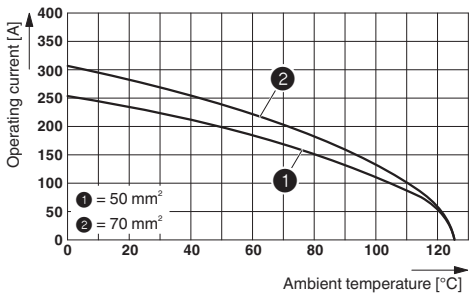


Schematic diagram

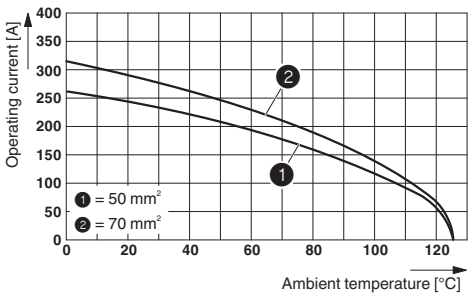


Female insert

Diagram



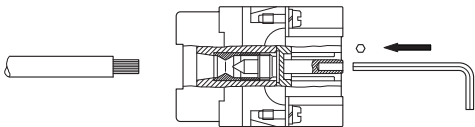
Diagram



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

Two modules in B24 housing

Schematic diagram



Axial connection

Approvals

Approvals

Approvals


CSA / UL Recognized / EAC / EAC


Contact insert module - HC-M-01-AT-F-40 - 1417379


Approvals


Ex Approvals

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
mm²/AWG/kcmil		00	
Nominal current I _N		116 A	
Nominal voltage U _N		600 V	

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E118976
mm²/AWG/kcmil		00	
Nominal current I _N		146 A	
Nominal voltage U _N		600 V	

EAC		RU C- DE.AI30.B.01102	
-----	---	--------------------------	--

EAC		RU C- DE.AI30.B.01102	
-----	---	--------------------------	--

Phoenix Contact 2018 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>