HC-M-02-AT-F-25 - Contact insert module

1421378

https://www.phoenixcontact.com/us/products/1421378

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Contact insert module, Socket, Axial screw connection, 1000 V, 100 A, 10 mm^2 ... 25 mm^2, application: Power

Commercial data

Item number	1421378
Packing unit	2 pc
Minimum order quantity	2 pc
Product key	AF7ACE
GTIN	4055626260556
Weight per piece (including packing)	68.3 g
Weight per piece (excluding packing)	68.2 g
Country of origin	PL

Technical data

Notes

General	For HEAVYCON HC-B6 to B48 housing, snap-in module frame required, axial connection for 4 mm Allen key
General	The axial screw connection must be established using a 4 mm Allen key (for stranded conductors only)

Product properties

Series	HC-M
Application	Power
Number of positions	2
Number of module slots	2

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated voltage (III/3)	1000 V
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	8 kV
Rated surge voltage	8 kV
Rated current	100 A

Material specifications

Flammability rating according to UL 94	V0

Cable/line

Stripping length of the individual wire	13 mm

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500

Environmental and real-life conditions

Ambient conditions

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

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required

Note regarding axial connection technology:

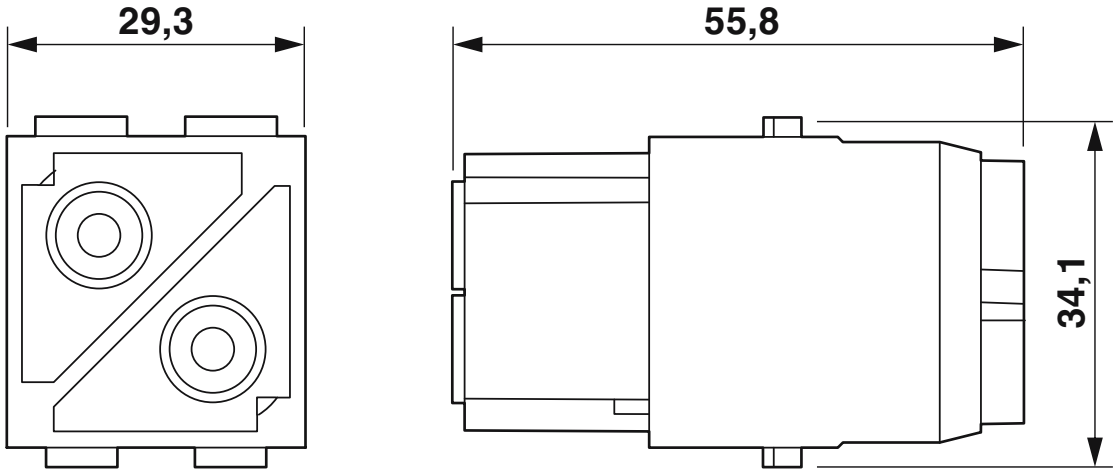
Only for stranded wires. The specified conductor cross-sections refer to the geometric cross section of the cable used.
Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use.
The axial connection technology connection space 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.

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

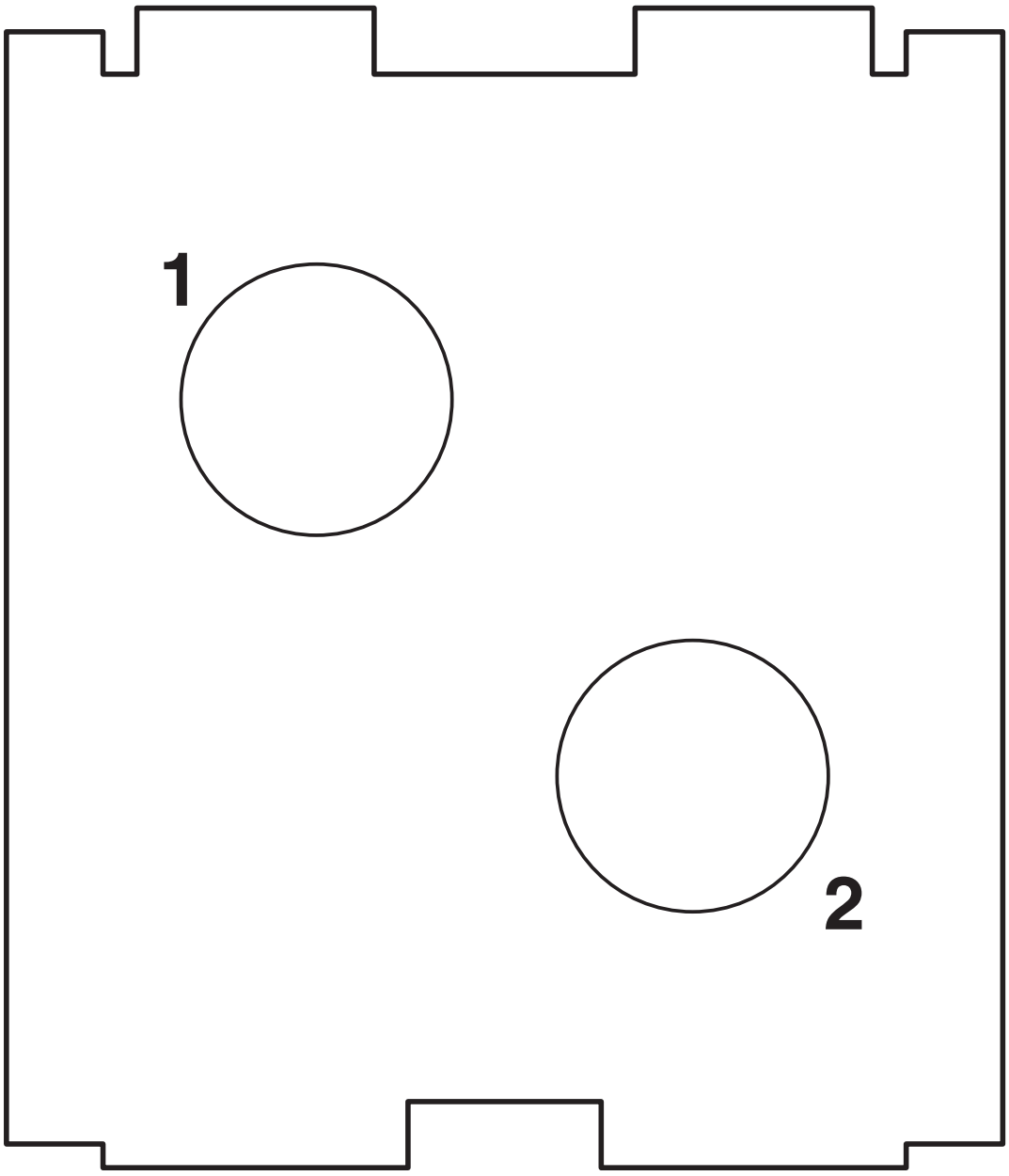
Drawings

Dimensional drawing



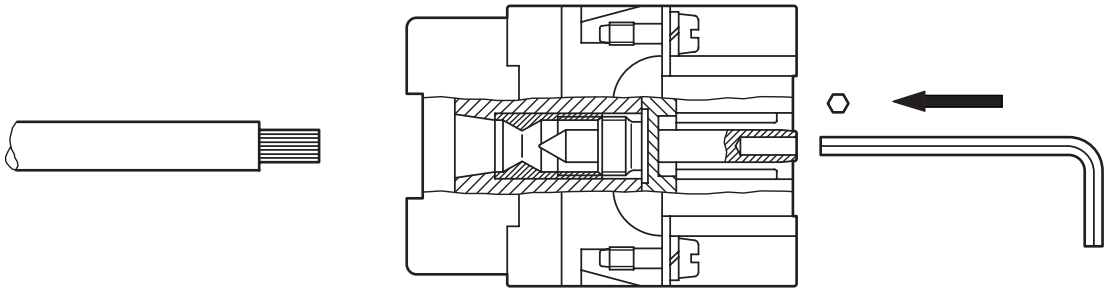
Socket module

Schematic diagram



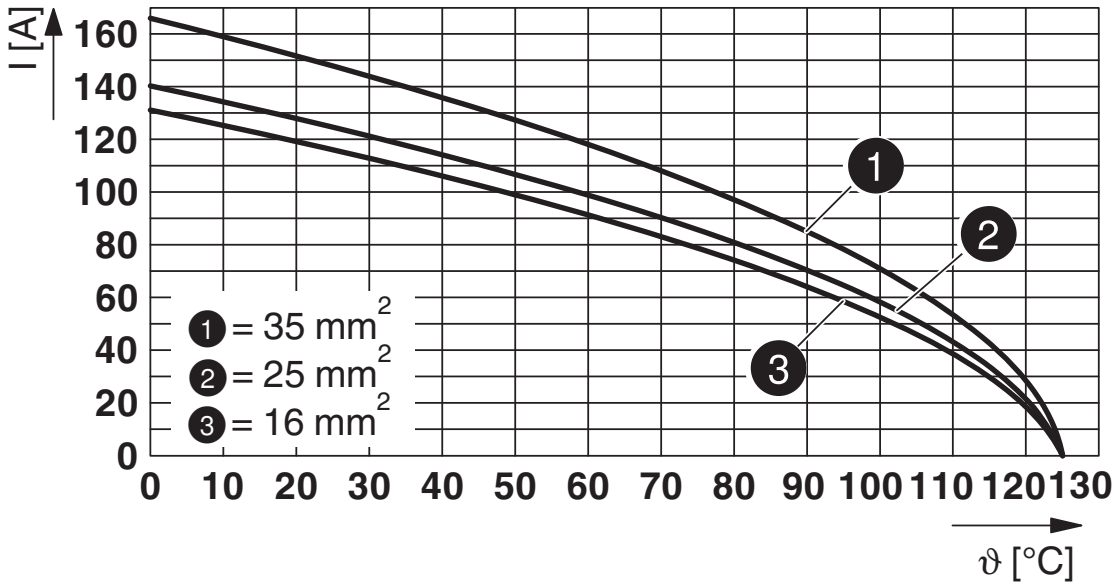
Connector pin assignment

Schematic diagram



Axial connection

Diagram



Derating diagram

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