

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



1421377

<https://www.phoenixcontact.com/us/products/1421377>

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Contact insert module, Pin, Axial screw connection, 1000 V, 100 A, 10 mm<sup>2</sup> ... 25 mm<sup>2</sup>, application: Power

## Commercial data

Item number	1421377
Packing unit	2 pc
Minimum order quantity	2 pc
Product key	AF7ACE
GTIN	4055626260549
Weight per piece (including packing)	67.6 g
Weight per piece (excluding packing)	67.6 g
Country of origin	PL

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## Technical data

### 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
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### Cable/line

Stripping length of the individual wire	13 mm
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### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	≥ 500
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### Environmental and real-life conditions

#### Ambient conditions

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

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

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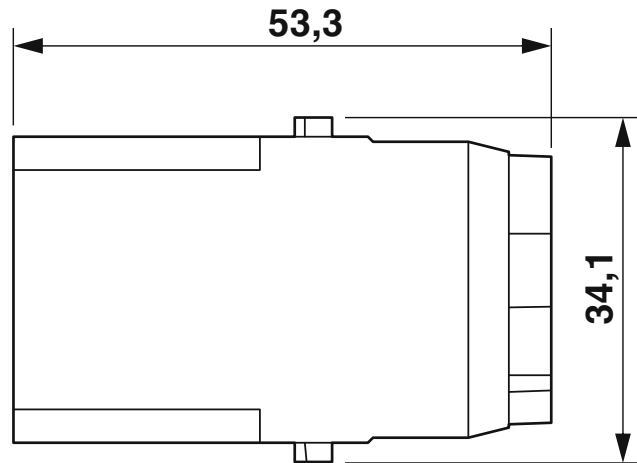
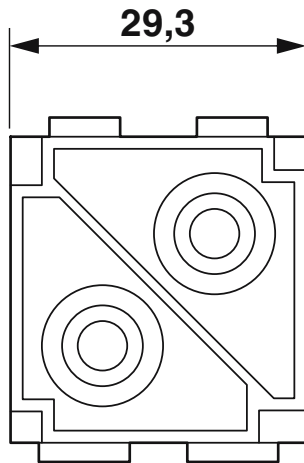


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## Drawings

Dimensional drawing



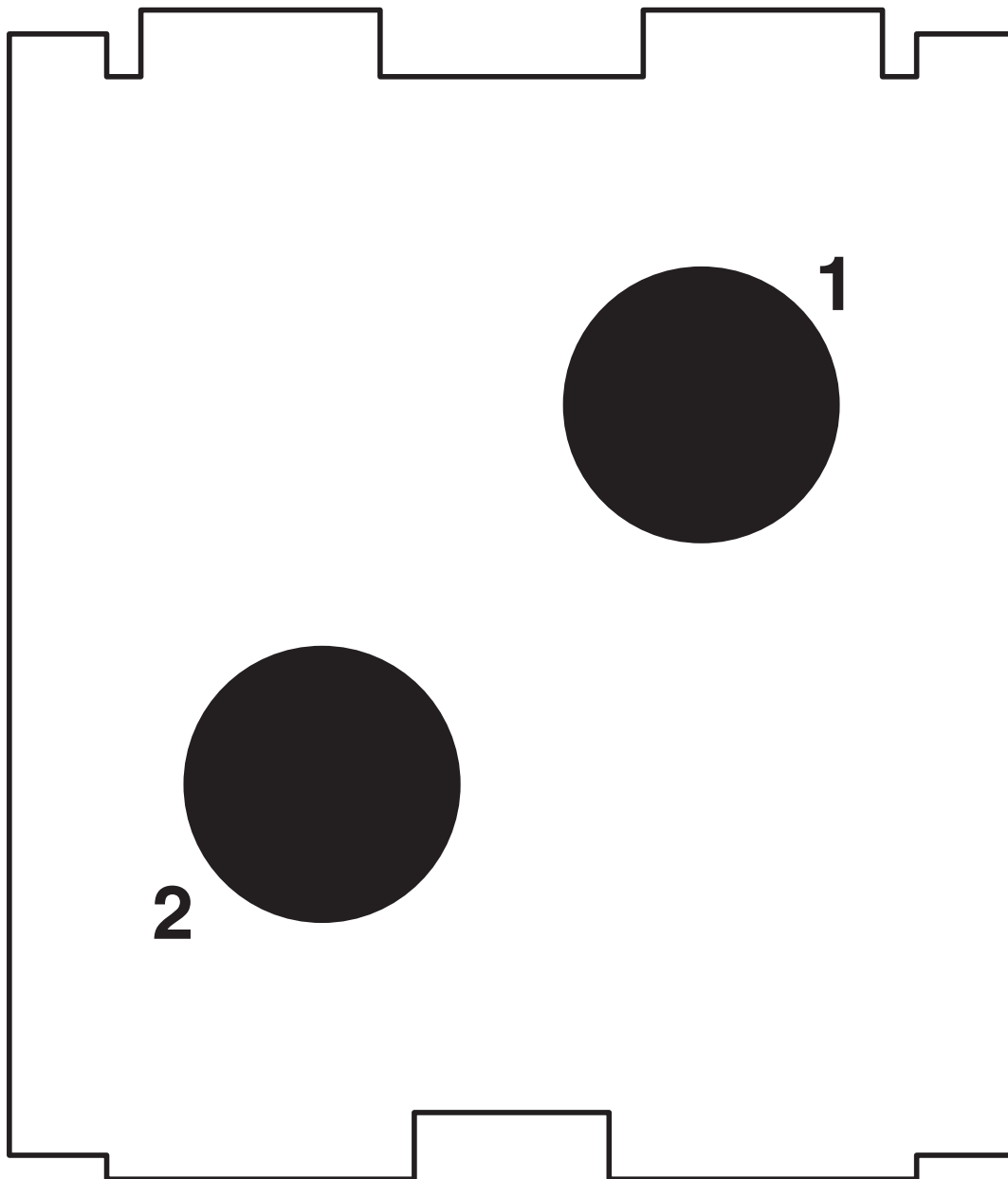
Male insert

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Schematic diagram



Connector pin assignment

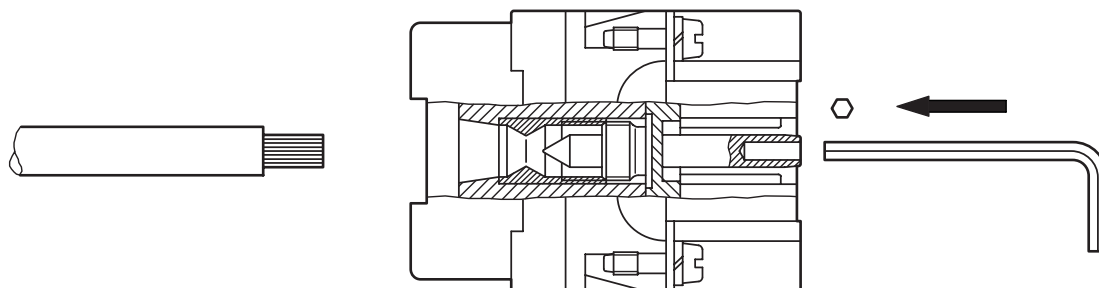
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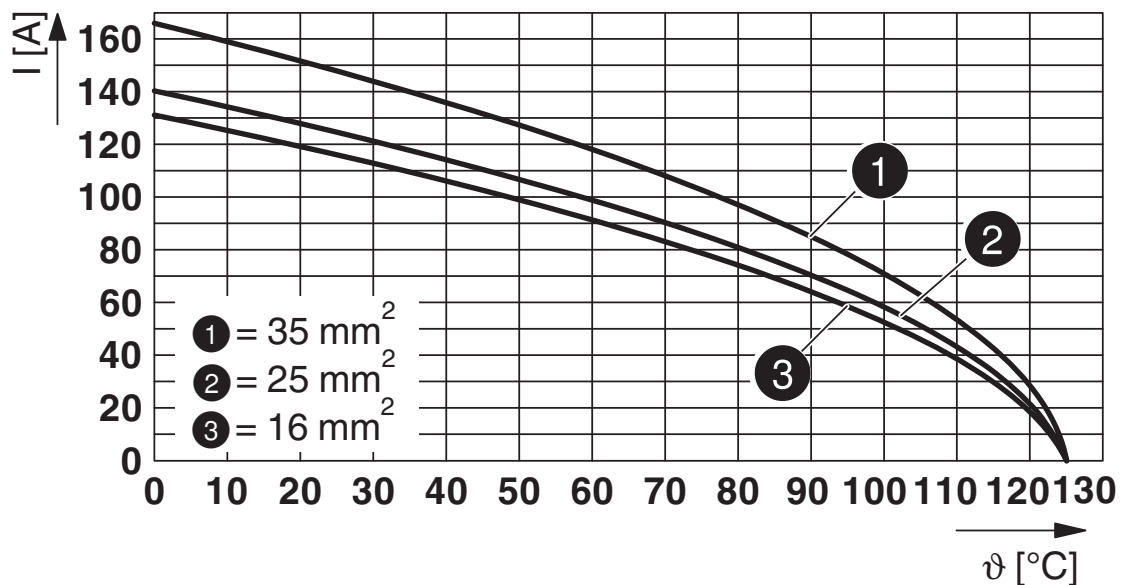
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Schematic diagram



Axial connection

Diagram



Derating diagram

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