

# HC-M-03-PT-F - Contact insert module



1424218

<https://www.phoenixcontact.com/gb/products/1424218>

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Contact insert module, number of positions: 3, power contacts: 3, control contacts: 0, Socket, Push-in connection, 690 V, 40 A, 2.5 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Power

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## Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373

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## Technical data

### Notes

General	for flexible conductors with or without ferrules
General	Connectors may be operated only when there is no load/voltage.
General	For HEAVYCON housing type B6 ... B48 and module carrier frame HC-M-B...MF...

### Mounting

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

Product type	Modular contact insert
Series	HC-M-03
Application	Power
Number of positions	3
Connection profile	3
Number of module slots	1
No. of power contacts	3
No. of control contacts	0
Contact material type	rolled

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

#### Connection technology

Connection technology	Push-in connection
Connection in acc. with standard	IEC / EN

#### Conductor connection

Conductor cross section	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Connection cross section AWG	14 ... 10
Stripping length of the individual wire	12 mm

### Dimensions

#### Mechanical characteristics

Minimum housing height	72 mm
Contact diameter	4 mm

### Electrical properties

Rated voltage (III/2) contacts	1000 V
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Rated voltage (III/3)	690 V
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	6 kV
Rated surge voltage	6 kV
Rated current	40 A

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 500
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## Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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## Standards and regulations

### Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
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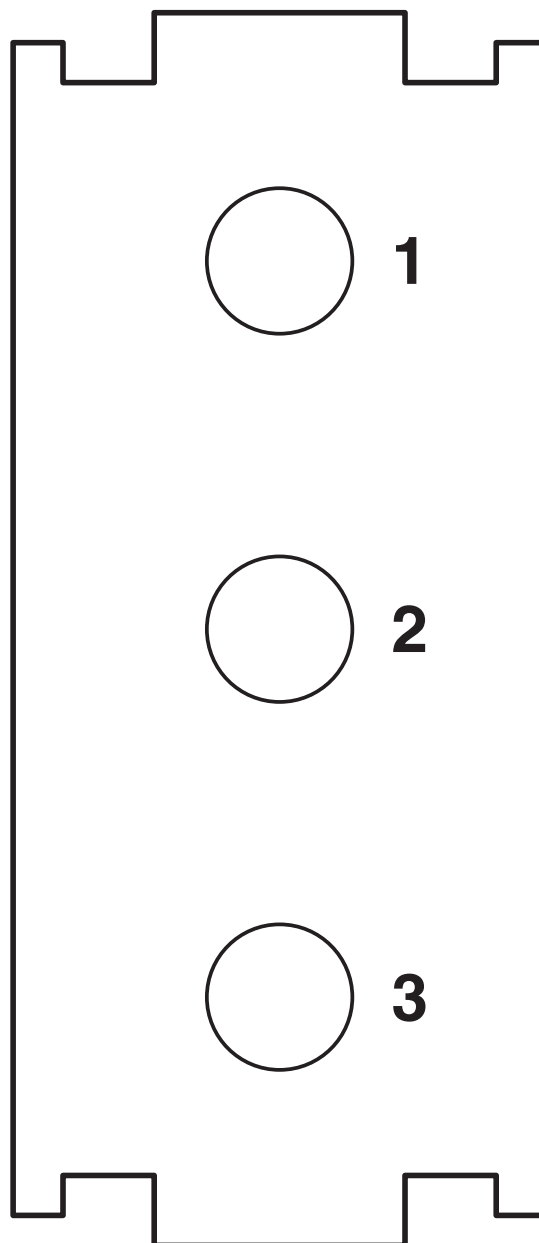
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## Drawings

Schematic diagram

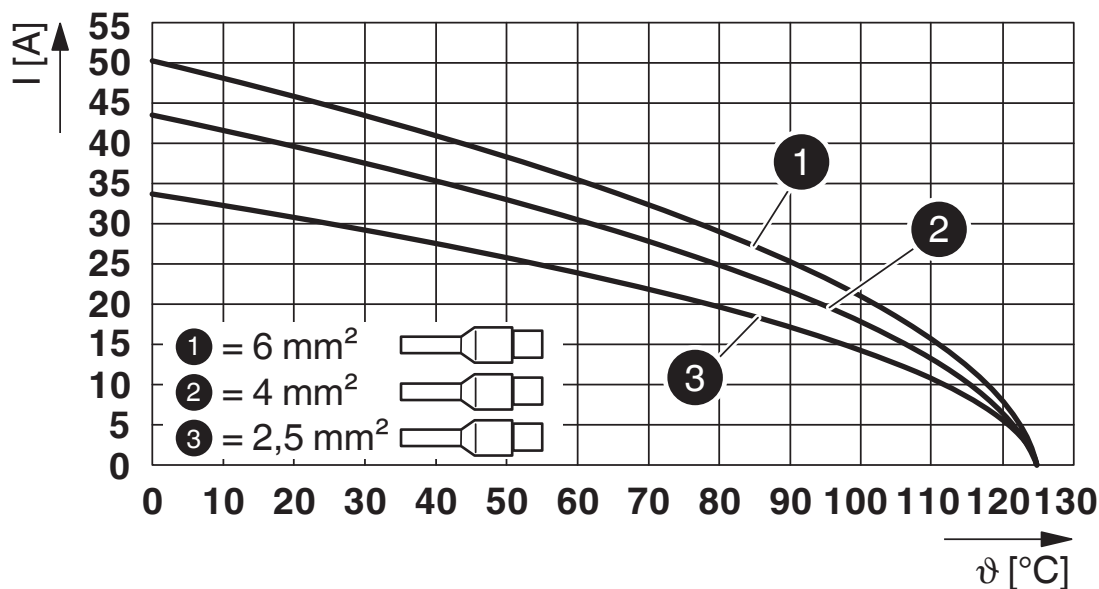


Connector pin assignment, connection side

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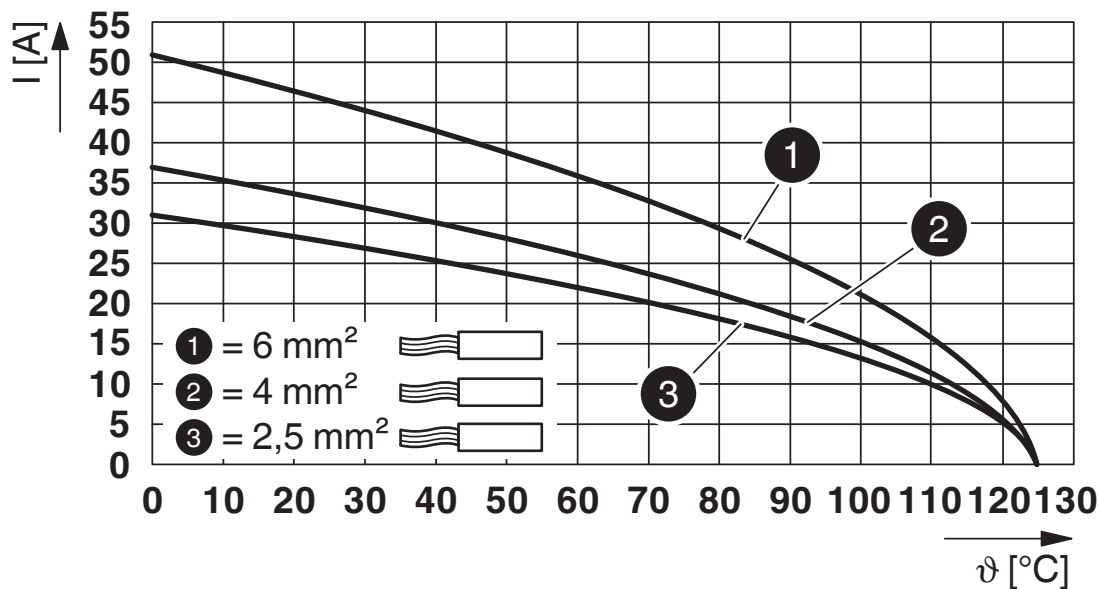
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Diagram



Derating diagram for flexible conductors with ferrule

Diagram



Derating diagram for flexible conductors

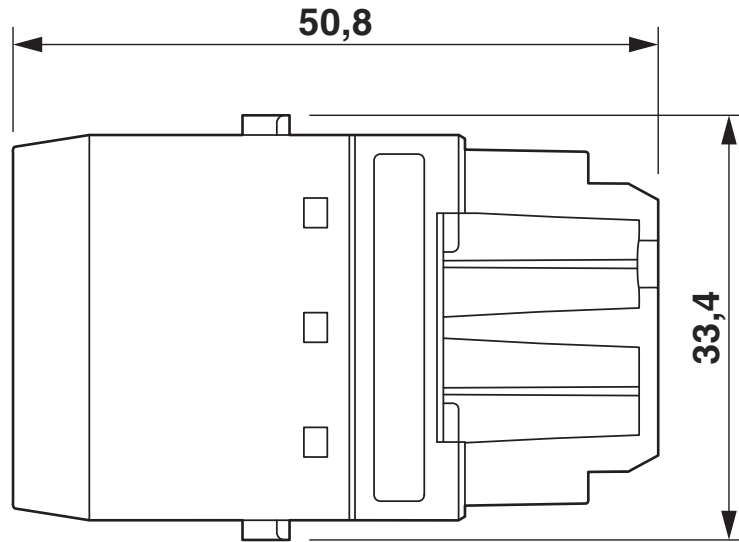
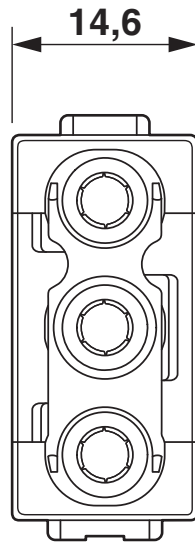
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Dimensional drawing



Dimensional drawing

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1424218>

 <b>cULus Recognized</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	30 A	- 10	-

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## Classifications

### ECLASS

ECLASS-11.0	27440217
ECLASS-12.0	27440217
ECLASS-13.0	27440217

### ETIM

ETIM 9.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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