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

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^2 ... 6 mm^2, application: Power

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

Commercial data

Item number	1424218
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626368696
Weight per piece (including packing)	28 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	CN

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-...
Note on UL requirements	“Suitable For Use On A Circuit Capable Of Delivering Not More Than 5,000 rms Symmetrical Amperes, 600 V ac Maximum When Protected by: 35A non-time delay RK5 class fuses"

Mounting

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

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 mm² ... 6 mm²
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
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

Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC

Environmental and real-life conditions

Ambient conditions

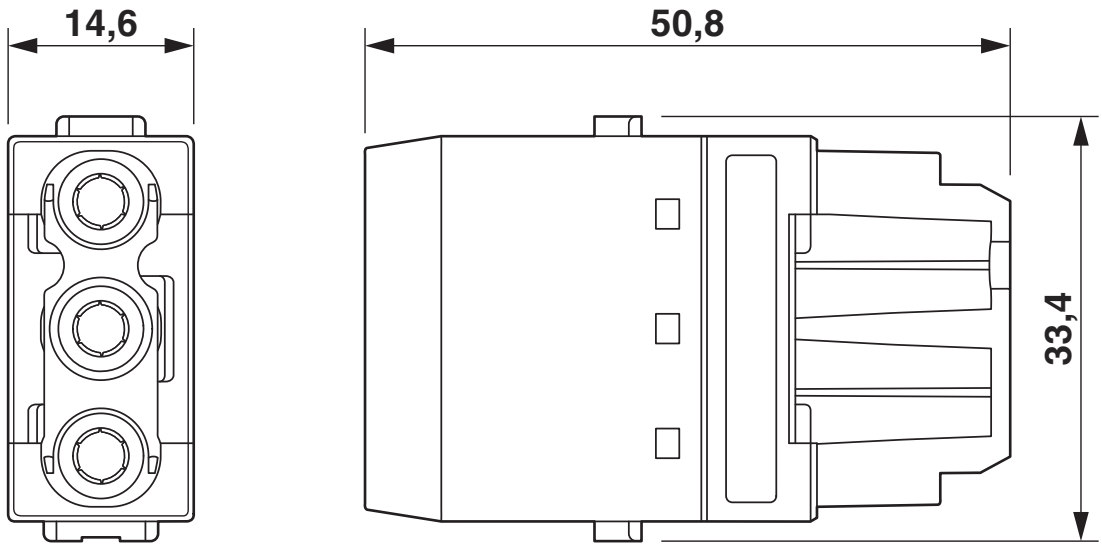
Ambient temperature (operation)	-40 °C ... 125 °C

Standards and regulations

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

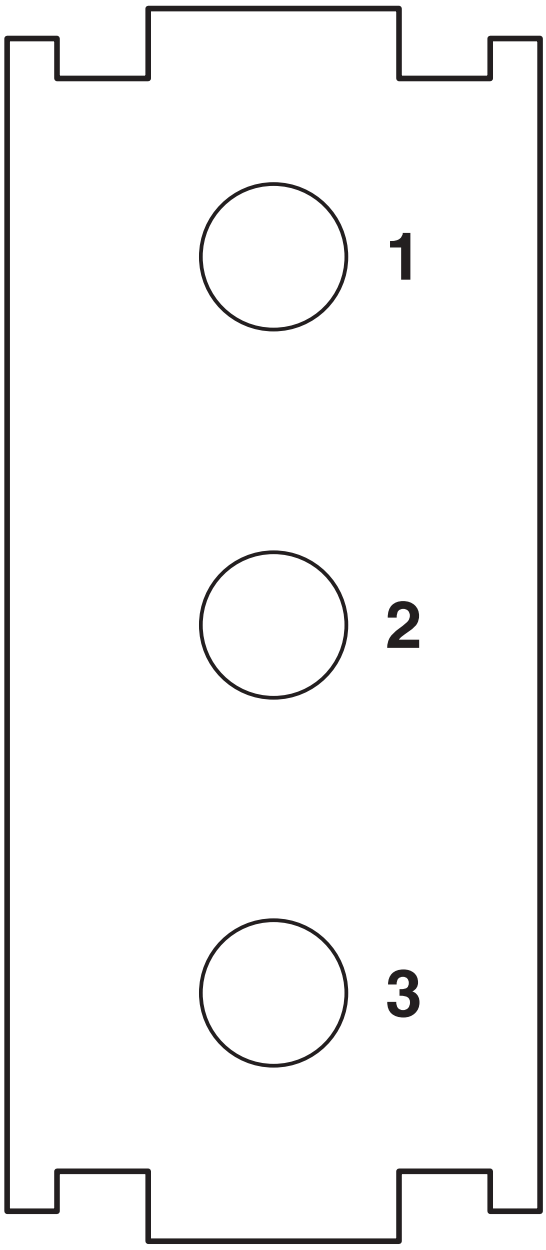
Drawings

Dimensional drawing



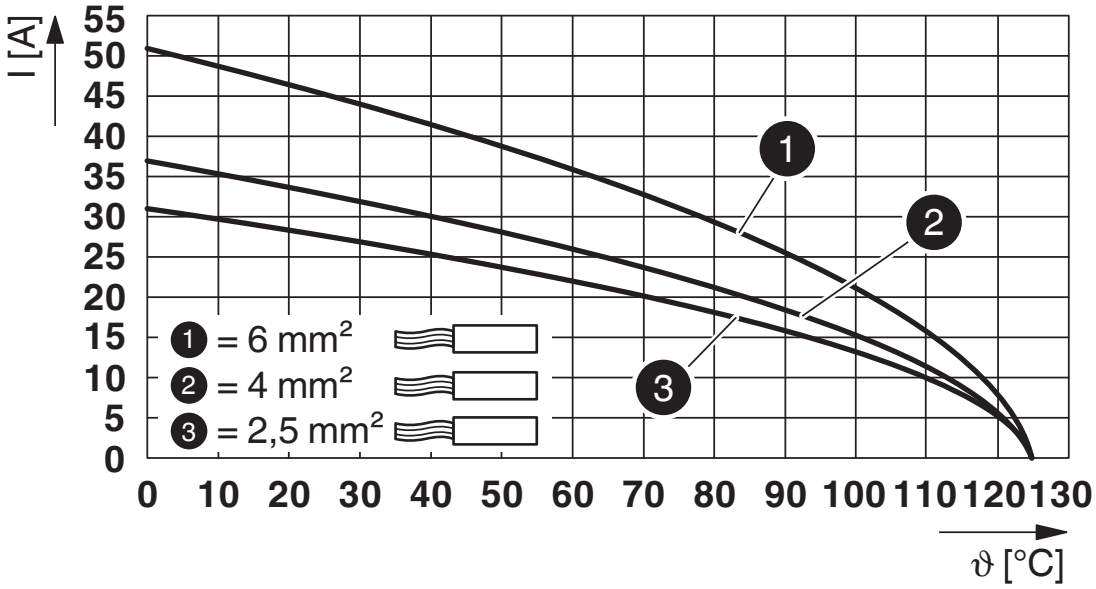
Dimensional drawing

Schematic diagram



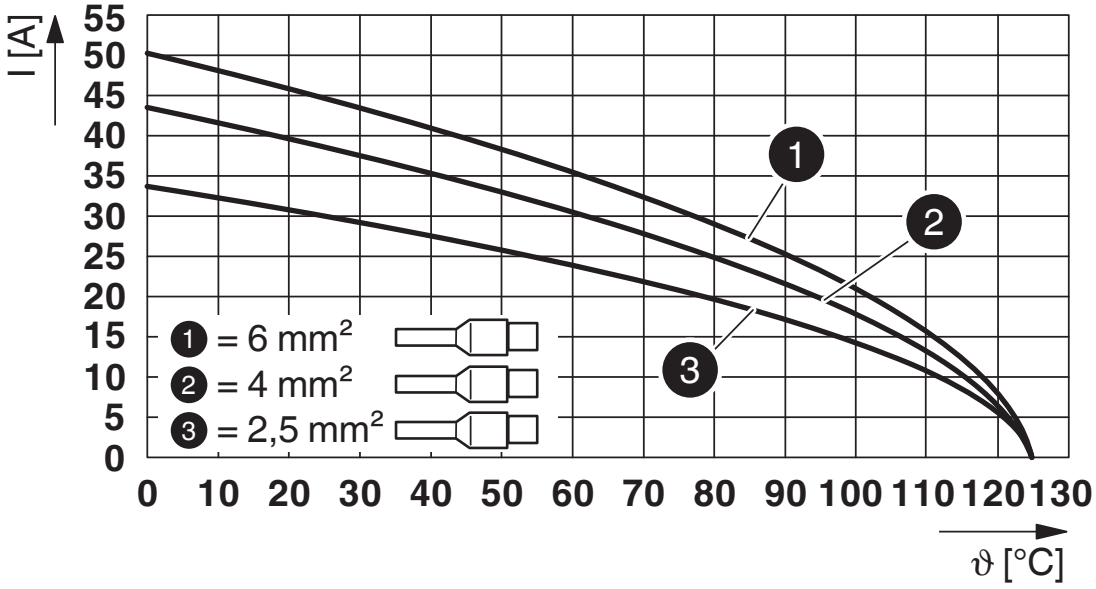
Connector pin assignment, connection side

Diagram



Derating diagram for flexible conductors

Diagram



Derating diagram for flexible conductors with ferrule

Approvals

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

cULus Recognized
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	30 A	- 10	-

CSA
Approval ID: 158887

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	30 A	- 10	-

Classifications

ECLASS

ECLASS-13.0	27440217
ECLASS-15.0	27440217

ETIM

ETIM 10.0	EC000438

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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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