

# HC-A03-I-PT-M - Contact insert



1585252

<https://www.phoenixcontact.com/us/products/1585252>

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Contact insert, number of positions: 3+PE, size: D7, number of connections per position: 1, Pin, Push-in connection, 230 V/400 V, 10 A, 0.14 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>



## 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
- Cost-effective and fast coding with plastic profiles

## Commercial data

Item number	1585252
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	BF61
Product key	AF7ABJ
GTIN	4046356284981
Weight per piece (including packing)	13.9 g
Weight per piece (excluding packing)	13.48 g
Customs tariff number	85366990
Country of origin	CN

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## Technical data

### Notes

General	only use flexible conductors with ferrules
General	Connectors may be operated only when there is no load/voltage.
General	for housing HC-D7

### 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	Contact insert with a fixed no. of positions
Series	HC-A
Type	D7
Number of positions	3
Connection profile	3+PE
Contact numbering	1 - 3
Number of connections per position	1
Contact material type	rolled

### Insulation characteristics

Ovvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	28 mm
Height	28.5 mm
Length	21 mm

### Mechanical characteristics

Contact diameter	1.6 mm
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### Connection data

#### Connection technology

Connection technology	Push-in connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN

#### Conductor connection

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Conductor cross section	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection cross section AWG	26 ... 16
Tightening torque	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	10 mm

## Electrical properties

Rated voltage (III/3)	230 V (Conductor-PE) 400 V (Conductor-Conductor)
Rated voltage for power contacts	230/400 V
Rated surge voltage	4 kV
Rated current	10 A

## Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 500

## Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR, conductive
Contact surface material	Ag
Contact carrier material	PC
Standards/regulations	PC

## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 125 °C

## 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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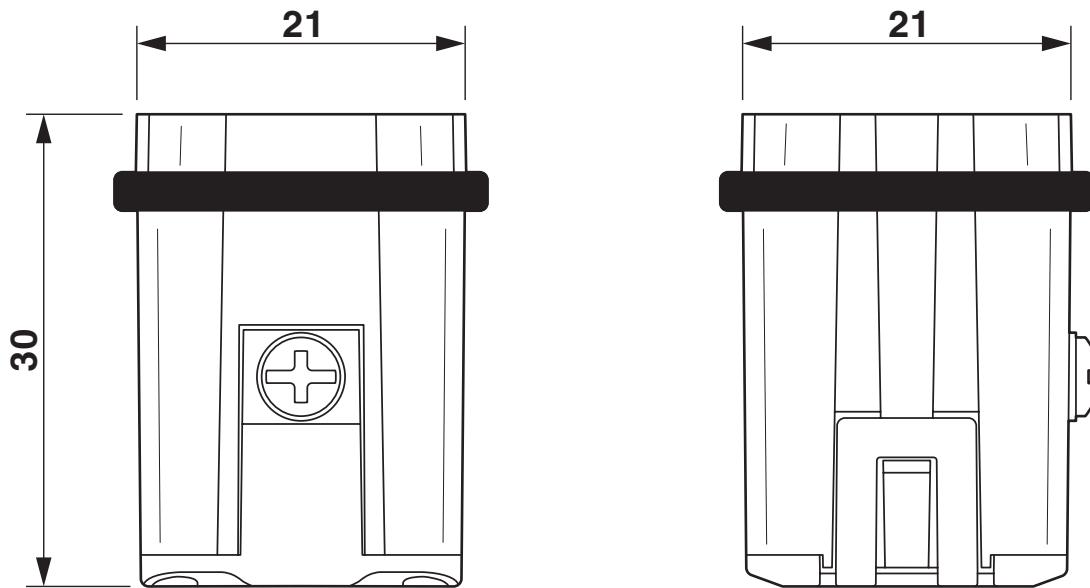


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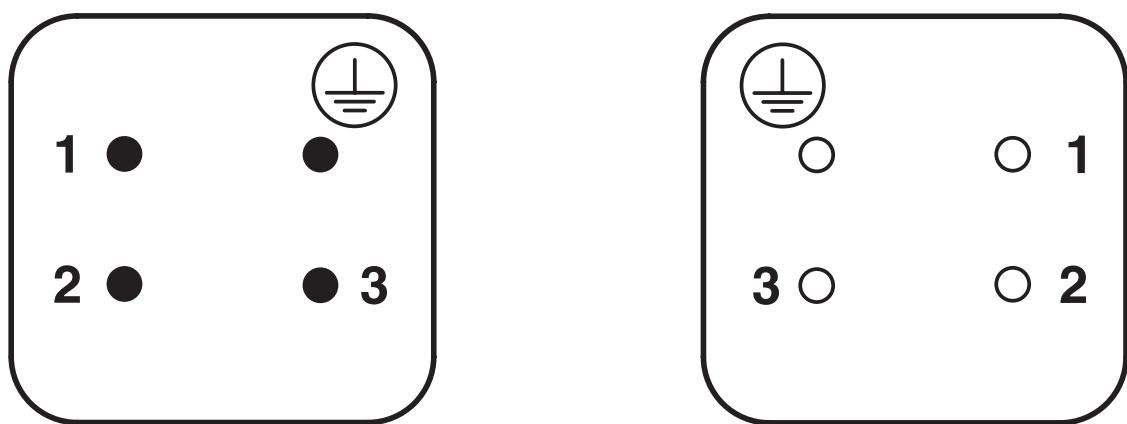
## Drawings

Dimensional drawing



Male insert

Schematic diagram



Connector pin assignment connection side: Left pin; right socket

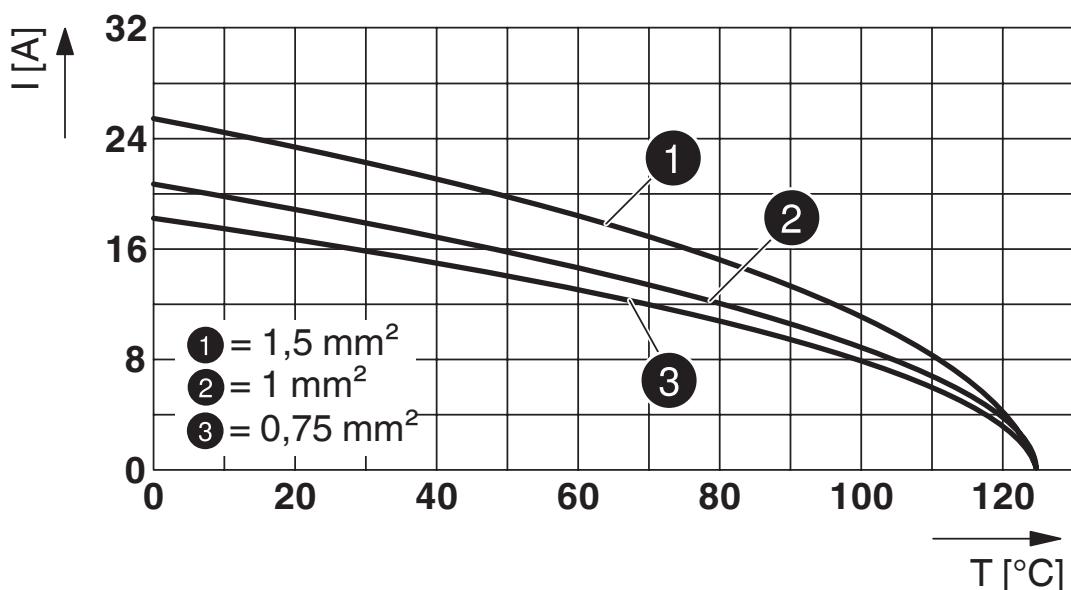
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Diagram



Derating diagram

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1585252>

**DNV**

Approval ID: TAE000037S

**CSA**  
Approval ID: 13631

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine	600 V	15 A	- 16	-

**UL Recognized**  
Approval ID: E118976

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine	600 V	17.5 A	- 16	-

**UL Recognized**  
Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine	600 V	16 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

### ETIM

ETIM 9.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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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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