

# HC-A03-I-UT-F - Contact insert

1585223

<https://www.phoenixcontact.com/us/products/1585223>



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Contact insert, number of positions: 3+PE, size: D7, number of connections per position: 1, Socket, Screw connection, 230 V/400 V, 10 A, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

## Product description

Contact insert  
without wire protection, with IP65 sealing screw

## Commercial data

Item number	1585223
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABJ
Catalog page	Page 505 (C-2-2019)
GTIN	4046356284950
Weight per piece (including packing)	15.1 g
Weight per piece (excluding packing)	15 g
Customs tariff number	85366990
Country of origin	CN

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## Technical data

### Notes

General	for housing HC-D7
General	Connectors may be operated only when there is no load/voltage.

### Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
	Already includes one IP65 sealing screw

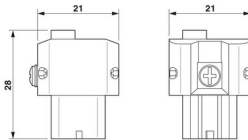
### Product properties

Type	D7
Product type	Contact insert with a fixed no. of positions
Number of positions	3
Connection profile	3+PE
Contact numbering	1 - 3
Number of connections per position	1
Contact material type	turned
Series	HC-A
Screwdriver blade	0.4 x 2.5 mm

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	21 mm
Height	28 mm
Length	21 mm

### Mechanical characteristics

Contact diameter	1.6 mm
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### Connection data

#### Connection technology

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

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## Conductor connection

Conductor cross section	0.5 mm² ... 2.5 mm²
Connection cross section AWG	20 ... 14
Tightening torque	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	0.25 Nm ... 0.5 Nm
Stripping length of the individual wire	5 mm

## Electrical properties

Rated voltage (III/2) contacts	415 V (Conductor-PE)
	690 V (Conductor-Conductor)
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
	4 kV
Rated current	10 A
SCCR	5 kA (UL 2237)

## 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 (including heating up of contacts)
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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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# HC-A03-I-UT-F - Contact insert

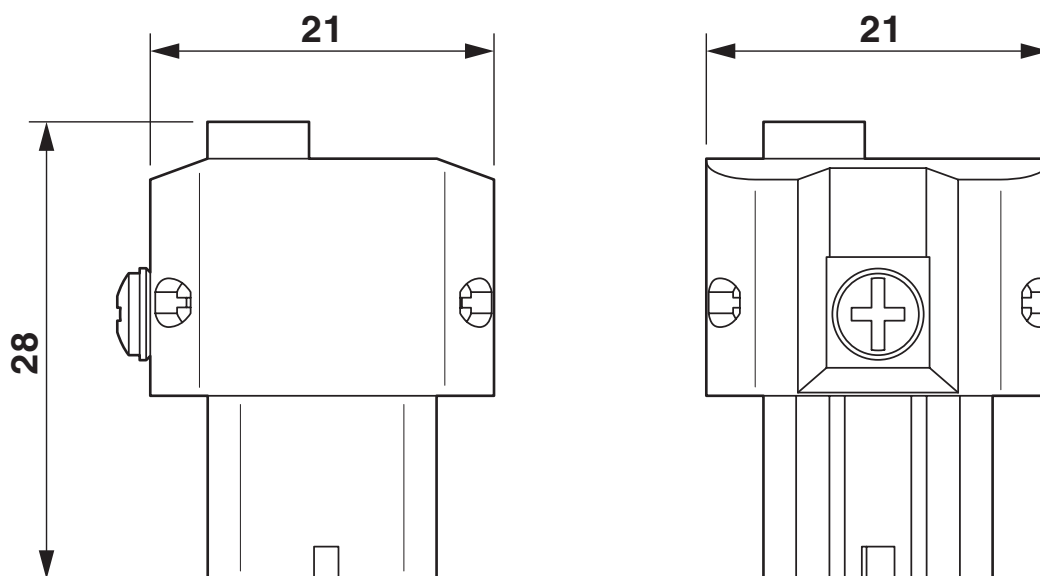
1585223

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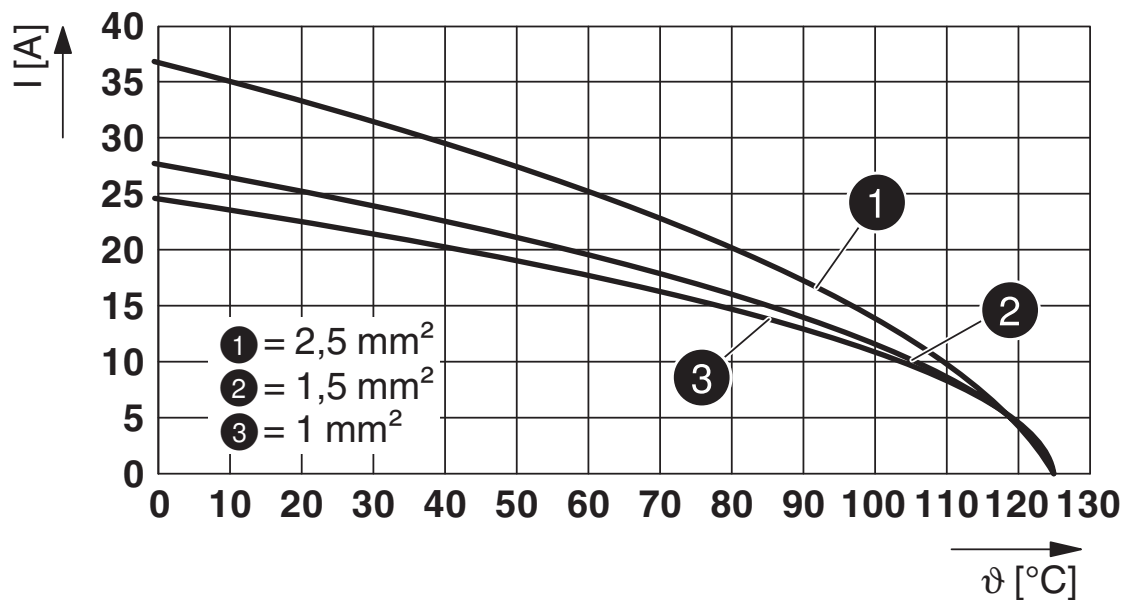
## Drawings

Dimensional drawing



Female insert

Diagram



Derating diagram

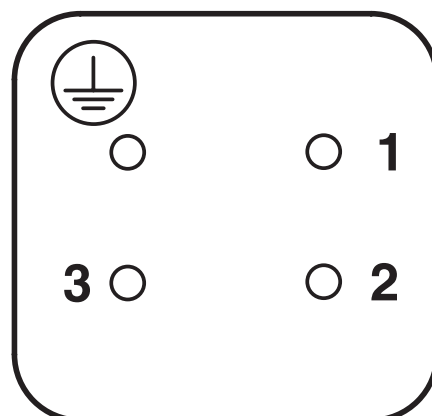
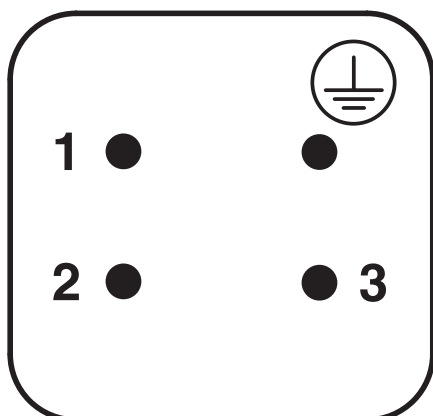
# HC-A03-I-UT-F - Contact insert

1585223

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Schematic diagram



Connector pin assignment connection side: Left pin; right socket

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1585223

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1585223>

### DNV

Approval ID: TAE000037S



### CSA

Approval ID: 13631

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	18 A	- 14	-



### UL Recognized

Approval ID: E118976

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	24 A	-	-



### EAC

Approval ID: RU C-DE.AI30.B.01102



### UL Recognized

Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	24 A	-	-



### EAC

Approval ID: RU C-DE.BL08.B.00511

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## Classifications

### ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

### ETIM

ETIM 8.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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## Accessories

### HC-CP-D07-PL - Coding element

1095413

<https://www.phoenixcontact.com/us/products/1095413>

Coding element for HC-D07 contact inserts of the HC-A03... / HC-A04... / HC-Q03... / HC-Q04... / HC-Q07... series



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### HC-D 7-DS-IP65 - Sealing screw

1686229

<https://www.phoenixcontact.com/us/products/1686229>



Sealing screw, size: Countersunk head, IP67, replacement part for D7 size HEAVYCON housing

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

1585210

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Contact insert, number of positions: 3+PE, size: D7, number of connections per position: 1, Pin, Screw connection, 230 V/400 V, 10 A, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

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