

# HC-Q02-I-CT-M - Contact insert



1419893

<https://www.phoenixcontact.com/us/products/1419893>

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Contact insert, number of positions: 2+PE, size: D7, number of connections per position: 1, Pin, Crimp connection, 400 V, 40 A, 1.5 mm<sup>2</sup> ... 10 mm<sup>2</sup>, application: Power

## Your advantages

- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

Item number	1419893
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABJ
GTIN	4055626256139
Weight per piece (including packing)	14.3 g
Weight per piece (excluding packing)	14.1 g
Customs tariff number	85389099
Country of origin	CN

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## Technical data

### Notes

General	For HC-D7 housing, crimp contacts CK 4.0. Crimp contacts not included in scope of supply.
General	Connectors may be operated only when there is no load/voltage.

### Mounting

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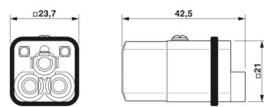
### Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-HS
Application	Power
Type	D7
Number of positions	2
Connection profile	2+PE
Contact numbering	1 - 2
Number of connections per position	1
Contact material type	turned

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	21 mm
Height	40 mm
Length	21 mm

### Mechanical characteristics

Contact diameter	4 mm
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### Connection data

#### Connection technology

Connection technology	Crimp connection Crimp connection (PE contact)
Number of connections per position	1

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Connection in acc. with standard	IEC / EN
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## Conductor connection

Conductor cross-section	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Connection cross section AWG	16 ... 10
Tightening torque	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	9 mm (1.5 mm <sup>2</sup> ... 6.0 mm <sup>2</sup> )
	11 mm (for 10 mm <sup>2</sup> )

## Electrical properties

Rated voltage (III/3)	400 V
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
Seal material	NBR, conductive
Contact material	Copper alloy
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 (including heating up of contacts)

## Standards and regulations

Constructional and testing regulations	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352
Tests	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352

## Testing

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## Standards/regulations

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

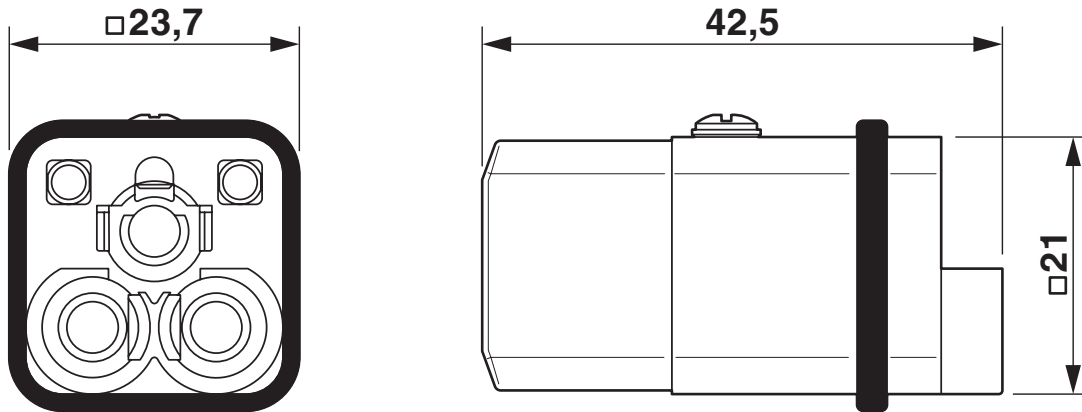
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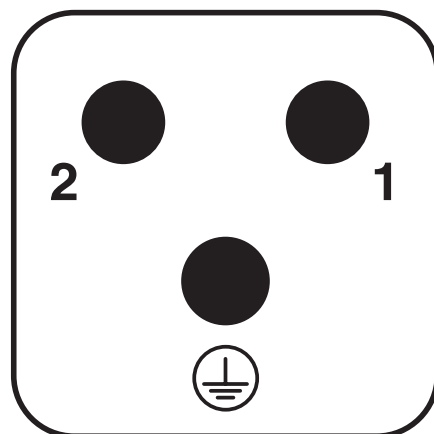
## Drawings

Dimensional drawing



Male insert

Schematic diagram

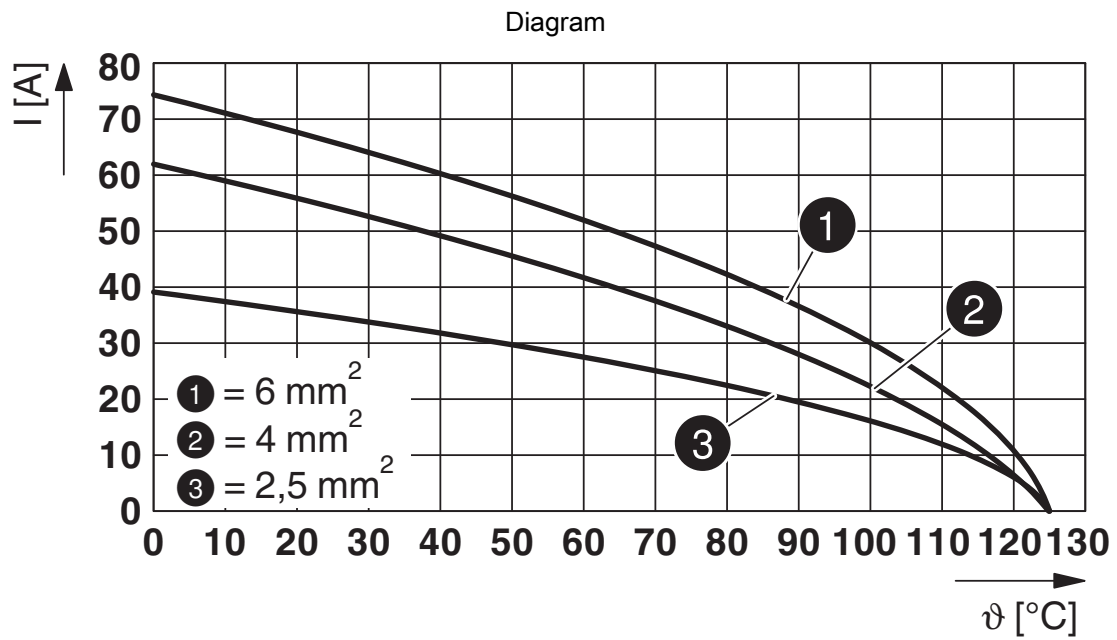


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Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1419893>

 <b>UL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	50 A	- 8	-

 <b>UL Recognized</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	45 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

### ETIM

ETIM 10.0	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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