

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 mm² ... 10 mm², 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
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	Crimp connection (PE contact)
Number of connections per position	1
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross-section	1.5 mm ² ... 10 mm ²
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 ² ... 6.0 mm ²)
	11 mm (for 10 mm ²)

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

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	IEC 60352
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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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Drawings

Dimensional drawing



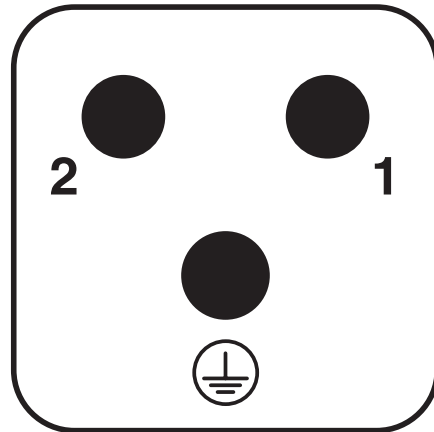
Male insert

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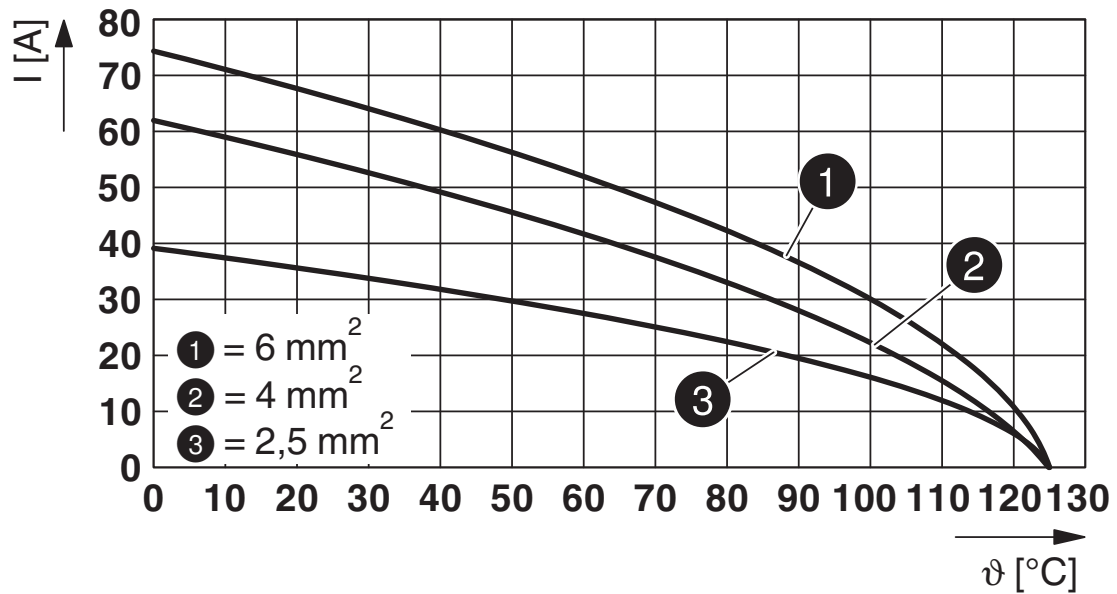
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Schematic diagram



Diagram



Derating diagram

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Approvals

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

 UL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	50 A	- 8	-

 UL Recognized Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section 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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com