

HC-Q03-I-CT-F - Contact insert



1419897

<https://www.phoenixcontact.com/us/products/1419897>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Contact insert, number of positions: 3+PE, size: D7, number of connections per position: 1, Socket, Crimp connection, 400 V, 40 A, 1.5 mm² ... 6 mm², application: Power

Commercial data

Item number	1419897
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABJ
Catalog page	Page 511 (C-2-2019)
GTIN	4055626256160
Weight per piece (including packing)	10.4 g
Weight per piece (excluding packing)	10.2 g
Customs tariff number	85389099
Country of origin	CN

HC-Q03-I-CT-F - Contact insert

1419897

<https://www.phoenixcontact.com/us/products/1419897>

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
---------------	---

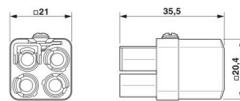
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-HS
Application	Power
Type	D7
Number of positions	3
Connection profile	3+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	34.8 mm
Length	21 mm

Mechanical characteristics

Contact diameter	4 mm
------------------	------

Connection data

Connection technology

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

HC-Q03-I-CT-F - Contact insert



1419897

<https://www.phoenixcontact.com/us/products/1419897>

Connection in acc. with standard	IEC / EN
----------------------------------	----------

Conductor connection

Conductor cross section	1.5 mm ² ... 6 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 (2,5 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
-----------------------------	-------

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)
---------------------------------	--

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

HC-Q03-I-CT-F - Contact insert



1419897

<https://www.phoenixcontact.com/us/products/1419897>

Standards/regulations

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

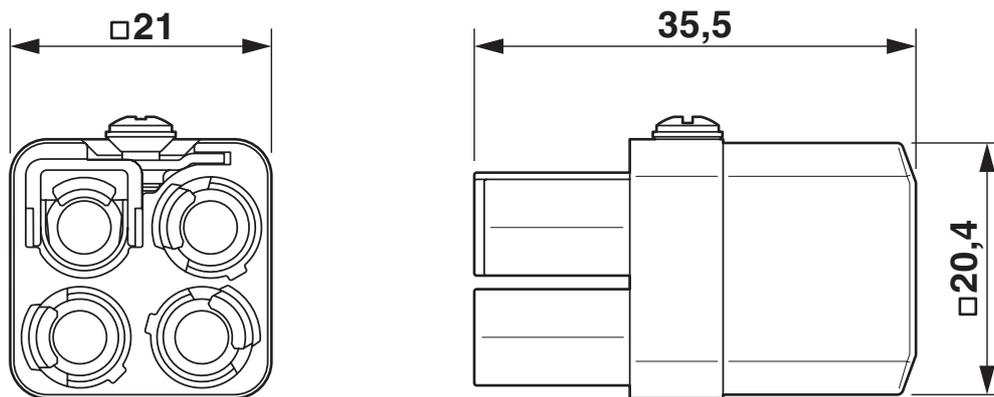
HC-Q03-I-CT-F - Contact insert

1419897

<https://www.phoenixcontact.com/us/products/1419897>

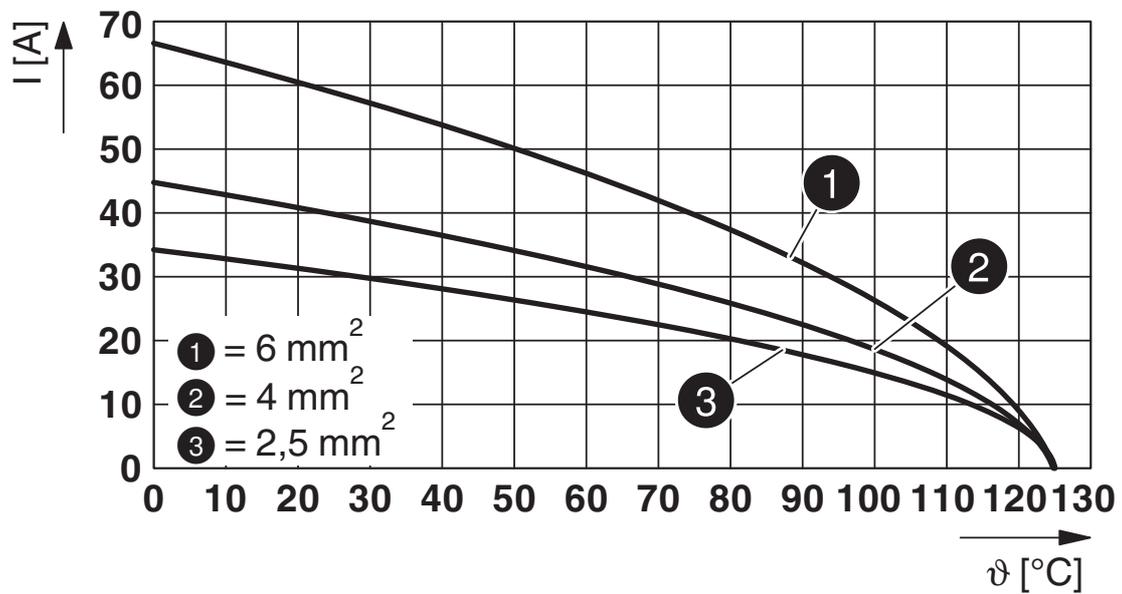
Drawings

Dimensional drawing



Female insert

Diagram



Derating diagram

HC-Q03-I-CT-F - Contact insert



1419897

<https://www.phoenixcontact.com/us/products/1419897>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1419897>

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

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

 UL Recognized Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	45 A	-	-

HC-Q03-I-CT-F - Contact insert



1419897

<https://www.phoenixcontact.com/us/products/1419897>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000438
----------	----------

UNSPSC

UNSPSC 21.0	39121500
-------------	----------

HC-Q03-I-CT-F - Contact insert



1419897

<https://www.phoenixcontact.com/us/products/1419897>

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%
-------------------------------------	----------------------------

HC-Q03-I-CT-F - Contact insert

1419897

<https://www.phoenixcontact.com/us/products/1419897>



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



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



HC-Q03-I-CT-F - Contact insert

1419897

<https://www.phoenixcontact.com/us/products/1419897>



CK4,0-ED-1,50BU AG - Crimp contact

1663271

<https://www.phoenixcontact.com/us/products/1663271>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

CK4,0-ED-2,50BU AG - Crimp contact

1663284

<https://www.phoenixcontact.com/us/products/1663284>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

HC-Q03-I-CT-F - Contact insert

1419897

<https://www.phoenixcontact.com/us/products/1419897>



CK4,0-ED-4,00BU AG - Crimp contact

1663297

<https://www.phoenixcontact.com/us/products/1663297>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

CK4,0-ED-6,00BU AG - Crimp contact

1663307

<https://www.phoenixcontact.com/us/products/1663307>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 6 mm² ... 6 mm², AWG 10

HC-Q03-I-CT-F - Contact insert

1419897

<https://www.phoenixcontact.com/us/products/1419897>



CK4,0-ED-10,00BU AG - Crimp contact

1586183

<https://www.phoenixcontact.com/us/products/1586183>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 10 mm² ... 10 mm², AWG 8

CK4,0-ED-1,50F AG - Crimp contact

1274089

<https://www.phoenixcontact.com/us/products/1274089>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

HC-Q03-I-CT-F - Contact insert

1419897

<https://www.phoenixcontact.com/us/products/1419897>



CK4,0-ED-2,50F AG - Crimp contact

1274088

<https://www.phoenixcontact.com/us/products/1274088>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

CK4,0-ED-4,00F AG - Crimp contact

1274087

<https://www.phoenixcontact.com/us/products/1274087>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

HC-Q03-I-CT-F - Contact insert

1419897

<https://www.phoenixcontact.com/us/products/1419897>



CK4,0-ED-6,00F AG - Crimp contact

1274086

<https://www.phoenixcontact.com/us/products/1274086>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 6 mm² ... 6 mm², AWG 10

CK4,0-ED-10,00F AG - Crimp contact

1274085

<https://www.phoenixcontact.com/us/products/1274085>



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 10 mm² ... 10 mm², AWG 8

HC-Q03-I-CT-F - Contact insert

1419897

<https://www.phoenixcontact.com/us/products/1419897>



HC-Q03-I-CT-M - Contact insert

1419896

<https://www.phoenixcontact.com/us/products/1419896>



Contact insert, number of positions: 3+PE, size: D7, number of connections per position: 1, Pin, Crimp connection, 400 V, 40 A, 1.5 mm² ... 6 mm², application: Power

UNIFOX RT-CK 4.0 - Contact removal tool

1072064

<https://www.phoenixcontact.com/us/products/1072064>



Contact removal tool, for rotated CK-4,0-... contacts

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com