

1645972
<https://www.phoenixcontact.com/us/products/1645972>

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HEAVYCON contact insert module, female, 3-pos., for crimp connection, without crimp contacts

Commercial data

Item number	1645972
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF62
Product key	BF7ACB
Catalog page	Page 555 (C-4-2015)
GTIN	4017918941901
Weight per piece (including packing)	15.35 g
Weight per piece (excluding packing)	14.95 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

General	For HEAVYCON housing type B6 ... B48, HC-M-MHR... hinged retaining frame and CK4,0... crimp contacts required. Crimp contacts not supplied as standard.
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Mounting

Assembly note	Housing height ≥ 52 mm. Plug-in connections may only be operated only when there is no load/voltage. The UNIFOX RT-CK 4.0 tool Item No. 1072064) is required for removing the crimp contacts. At every "C" contact chamber, the position of the contact retaining springs is marked with two black markings on the connection side. From the connection side, the tool is pushed over the contact in a position-oriented manner, so that it touches both the retaining springs. Then insert it up to the limit stop. Do not turn the inserted tool. Push the conductor out of the insulating body along with the tool from the connection side.
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Product properties

Product type	Modular contact insert
Series	HC-M-03
Application	Power
Number of positions	3
Note number of positions	3
Connection profile	3
Contact numbering	1 - 3
Number of module slots	1
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

Connection technology

Connection technology	Crimp connection
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross section	1.5 mm ² ... 10 mm ²
Connection cross section AWG	16 ... 8
Stripping length of the individual wire	9 mm (for 1.5 ... 2.5 mm ²) 9.6 mm (4 ... 6 mm ²)

HC-M-03-MOD-BUC - Contact insert module



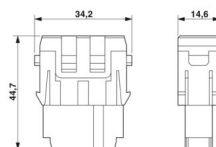
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15 mm (10 mm ²)
15 mm (for conductor $\geq$ 5 mm in diameter)
18 mm (for conductor $\geq$ 6.4 mm in diameter)

Dimensions

Dimensional drawing



Width	34.2 mm
Height	44.7 mm
Length	14.6 mm

Mechanical characteristics

Minimum housing height	52 mm
Contact diameter	4 mm

Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	40 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	$\geq$ 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

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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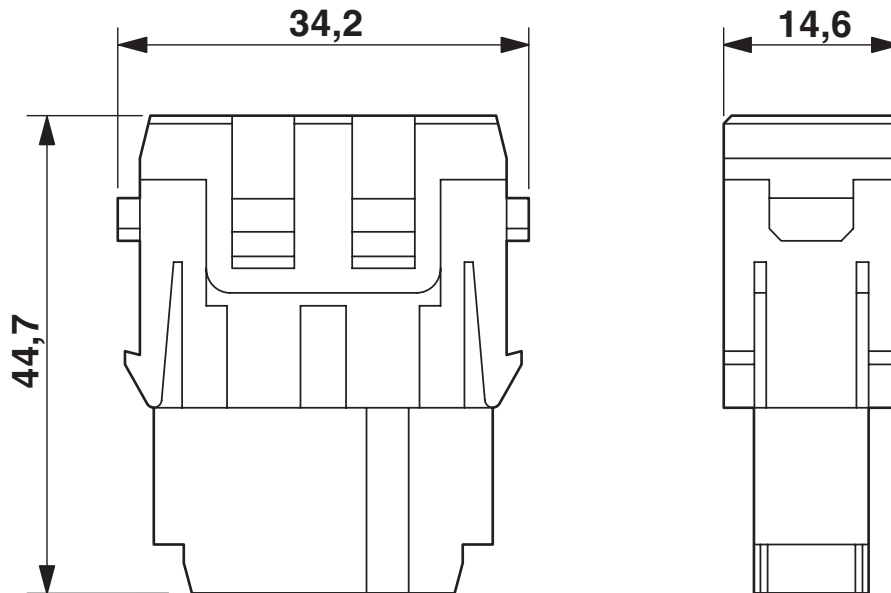


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Drawings

Dimensional drawing



Female insert

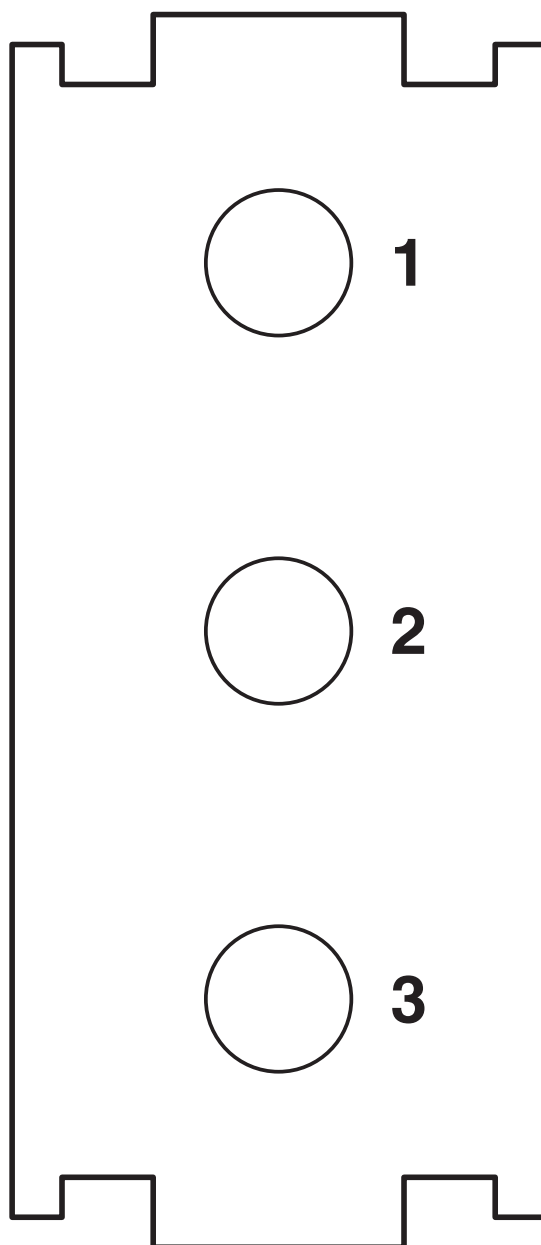
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Schematic diagram



Connector pin assignment

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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%

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Accessories

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

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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

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

1663297

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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

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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

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

1586183

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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

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

1274088

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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

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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

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

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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

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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

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UNIFOX RT-CK 4.0 - Contact removal tool

1072064

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

CRIMPFOX-TC 4 - Crimping pliers

1212113

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Crimping pliers, for CK 1,6-ED..., CK 2,5-ED..., CK 4,0-ED... turned contacts, 4 marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool

HC-M-03-MOD-BUC - Contact insert module



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CRIMPFOX-TC 10 - Crimping pliers

1212114

<https://www.phoenixcontact.com/us/products/1212114>



Crimping pliers, for turned contacts with a pin diameter of 4.0 mm, two marked die stations, pressure lock can be released, lateral entry, incl. positioning help

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