

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



1645969

<https://www.phoenixcontact.com/us/products/1645969>

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

Commercial data

Item number	1645969
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF62
Product key	BF7ACB
Catalog page	Page 555 (C-4-2015)
GTIN	4017918941918
Weight per piece (including packing)	15.02 g
Weight per piece (excluding packing)	14.8 g
Customs tariff number	85366990
Country of origin	DE

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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)

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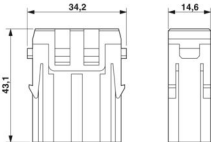


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15 mm (10 mm ²)
15 mm (for conductor $\geq$ 5 mm in diameter)
18 mm (for conductor $\geq$ 6.4 mm in diameter)

Dimensions

Dimensional drawing	
Width	34.2 mm
Height	43.1 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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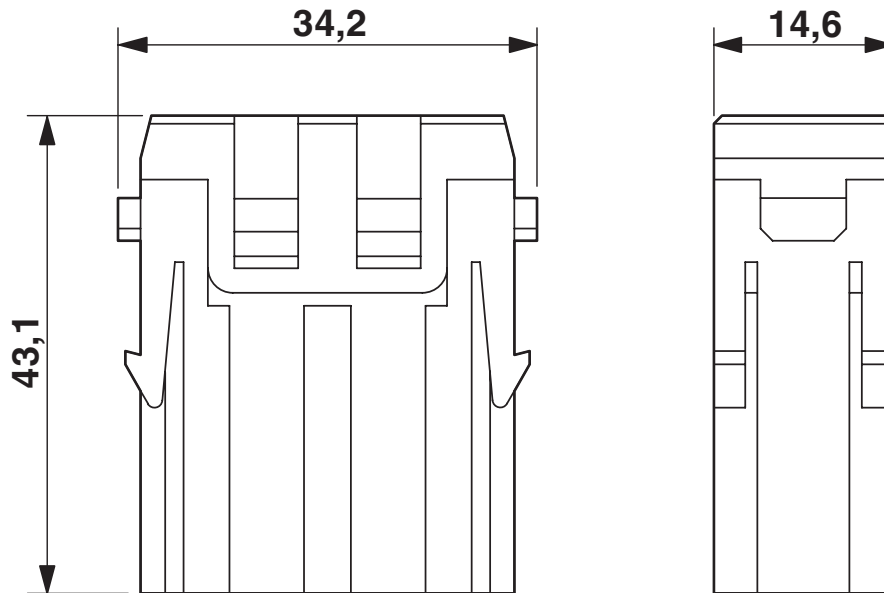


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Drawings

Dimensional drawing



Male insert

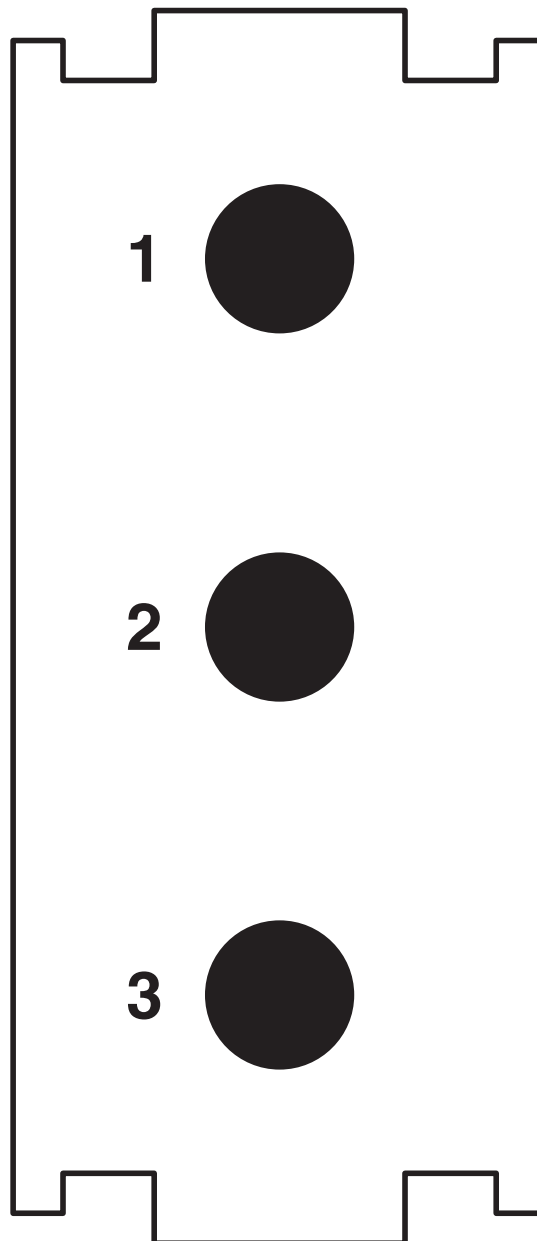
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Schematic diagram



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-1,50ST AG - Crimp contact

1663239

<https://www.phoenixcontact.com/us/products/1663239>



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

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

1663242

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Crimp contact, contact diameter: 4 mm, turned, Pin, 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-4,00ST AG - Crimp contact

1663255

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

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

1663268

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

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

1586198

<https://www.phoenixcontact.com/us/products/1586198>



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

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

1274097

<https://www.phoenixcontact.com/us/products/1274097>



Crimp contact, contact diameter: 4 mm, turned, Pin, 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-2,50M AG - Crimp contact

1274094

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

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

1274093

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Crimp contact, contact diameter: 4 mm, turned, Pin, 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-6,00M AG - Crimp contact

1274092

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

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

1274091

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Crimp contact, contact diameter: 4 mm, turned, Pin, 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

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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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