

https://www.phoenixcontact.com/us/products/1417381

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Contact insert module, number of positions: 1, power contacts: 1, control contacts: 0, Pin, Axial screw connection, 1000 V, 200 A, 6 mm^2 ... 70 mm^2 , application: Power

Commercial data

Item number	1417381
Packing unit	2 pc
Minimum order quantity	2 pc
Sales key	BF62
Product key	BF7ACE
Catalog page	Page 573 (C-2-2019)
GTIN	4055626112626
Weight per piece (including packing)	66.8 g
Weight per piece (excluding packing)	63.8 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Notes

General	For HEAVYCON HC-B6 to B48 housing (housing height: min. 72 mm), HC-M-BMF module carrier frame required, axial connection for 5 mm Allen key
General	Connectors may be operated only when there is no load/voltage.
General	The axial screw connection must be established using a 5 mm Allen key (for stranded conductors only)

Mounting

Assembly instructions To ensure correct use, installation in housing with IP54 protection or better is required Note regarding axial connection technology: Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used. Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use. The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before use. Assembly instructions Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be cut off before reconnection. The terminal screw must only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct	or better is required Note regarding axial connection technology: Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used. Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use. The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before use. Assembly instructions Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be cut off before reconnection. The terminal screw must only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct execution, see DIN VDE 0100-520:2003-06. Unused connections must be tightened with maximum torque.	or better is required Note regarding axial connection technology: Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used. Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use. The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before use. Assembly instructions Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct execution, see DIN VDE 0100-520:2003-06. Unused connection	0	
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Product properties

Product type	Modular contact insert
Number of positions	1
Connection profile	1
Application	Power
Number of module slots	2
No. of power contacts	1
No. of control contacts	0
Series	HC-M-HS

Overvoltage category

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Degree of pollution	3
Connection data	
Connection technology	
Connection technology	Axial screw connection
Conductor connection	
Conductor cross section	6 mm ² 70 mm ² (The cross section specification refers to the
	geometric cross section of the cable used)
Connection cross section AWG	10 0
Tightening torque	4 Nm 6 Nm (6 mm ² 10 mm ²)
	6 Nm 8 Nm (16 mm² 25 mm²)
	8 Nm 10 Nm (35 mm² 70 mm²)
Stripping length of the individual wire	15 mm (with an outside conductor diameter up to 12 mm)
	19 mm (with an outside conductor diameter up to 16 mm)
Dimensions	
Dimensional drawing	
Width	34.2 mm
Height	54.5 mm
Length	29.4 mm
Mechanical characteristics	
Minimum housing height	72 mm
Contact diameter	9.5 mm
Electrical properties	
	1000 V
Rated voltage (III/3) Rated surge voltage	8 kV
Rated current	200 A
Rated current	200 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

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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)		
Environmental and real-life conditions			
Ambient conditions			
Ambient temperature (operation)	-40 °C 125 °C		
Standards and regulations			
Testing			
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Classifications

ECLASS

ECLASS-11.0	27440217
ECLASS-12.0	27440217
ECLASS-13.0	27440217

ETIM

	ETIM 9.0	EC000438	
UNSPSC			
	UNSPSC 21.0	39121400	

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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