

1417389

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Contact insert module, number of positions: 2, power contacts: 2, control contacts: 0, Pin, Axial screw connection, 690 V, 40 A, 2.5 mm² ... 10 mm², application: Power

Commercial data

Item number	1417389
Packing unit	2 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626112695
Weight per piece (including packing)	26.3 g
Weight per piece (excluding packing)	24.9 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Notes

General	For HEAVYCON HC-B6 to B48 housing, snap-in module frame required, axial connection for 2 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 2 mm Allen key (for stranded conductors only)

Mounting

lounting	
Assembly note	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 execution, see DIN VDE 0100-520:2003-06. Unused connections must be tightened with maximum torque.
Hexagonal socket	SW2,0

Product properties

. outside proportion	
Product type	Modular contact insert
Series	HC-M-02
Application	Power
Number of positions	2
Connection profile	2
Number of module slots	1
No. of power contacts	2
No. of control contacts	0
Insulation characteristics	
Overvoltage category	III



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Degree of pollution	3
Connection data	
Connection technology	
Connection technology	Axial screw connection
Connection in acc. with standard	IEC / EN
Conductor connection	
Conductor cross section	2.5 mm² 10 mm² (The cross section specification refers to the geometric cross section of the cable used)
Connection cross section AWG	12 10
Tightening torque	1.5 Nm (2.5 mm² 4 mm²)
	2 Nm (6 mm² 10 mm²)
Stripping length of the individual wire	9 mm (with an outside conductor diameter up to 4.8 mm)
	11 mm (with an outside conductor diameter up to 6.5 mm)
Dimensions	
Dimensional drawing	43.6
Width	34.2 mm
Height	34.7 mm
Length	14.6 mm
Mechanical characteristics	
Contact diameter	4 mm
Electrical properties	
Rated voltage (III/2) contacts	1000 V
Rated voltage (III/3)	690 V
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	8 kV
Rated surge voltage	8 kV
Rated current	40 A
SCCR	5 kA (UL 2237)
Mechanical properties	
Mechanical data	
Insertion/withdrawal cycles	≥ 500
Material specifications	
Flammability rating according to UL 94	VO
Contact material	Copper alloy



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Contact surface material	Ag
Contact carrier material	PC
Standards/regulations	PC
nvironmental and real-life conditions	
nvironmental and real-life conditions Ambient conditions	
	-40 °C 125 °C

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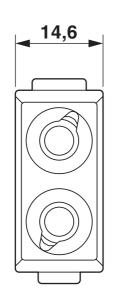
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23,
	and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)



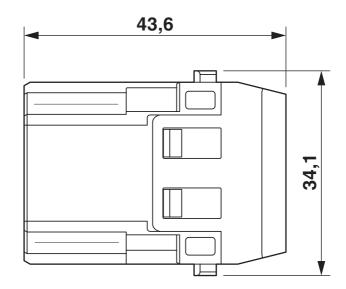
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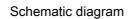
Drawings

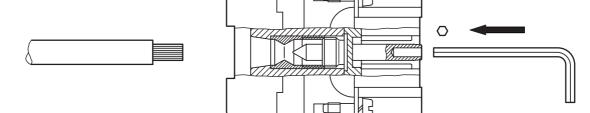


Dimensional drawing



Male insert



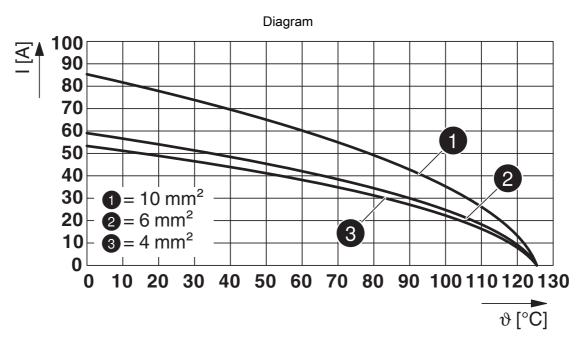


Axial connection (2 mm Allen key)



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Derating diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1417389

DNV	
Annrova	I ID: TAE0000379

•	CSA Approval ID: 13631				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	45 A	- 8	-

7.1	UL Recognized Approval ID: E118976				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	55 A	- 8	-

71	UL Recognized Approval ID: E468743				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	55 A	-	-



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Classifications

UNSPSC 21.0

	ECLASS-13.0	27440217	
ETIM			
	ETIM 9.0	EC000438	
UNSPSC			

39121400



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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%		
EF3.0 Climate Change			
CO2e kg	0.166 kg CO2e		

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