HC-M-01-AT-F-40 - Contact insert module

1417379

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

Commercial data

Item number	1417379
Packing unit	2 pc
Minimum order quantity	2 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626112602
Weight per piece (including packing)	66 g
Weight per piece (excluding packing)	61.4 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Notes

General	Contact insert module for HEAVYCON housing designs B6 to B48, housing height at least 72 mm
General	A HC-M-B...MFH... module carrier frame is required
General	Only operate the connector when there is no load and the power is switched off.
General	Install the contact insert in a housing with IP54 degree of protection or higher.
General	Strain relief is only ensured when installed into a HEAVYCON housing.

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required **Note regarding axial connection technology:** For flexible wires only. The specified conductor cross-sections refer to the geometric cross-section of the cable used. Use of cables with a geometric cross-section that differs greatly from the nominal cross-section of the cable should be checked before use. The wiring space for axial screw technology is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) should be checked before use. **Assembly note** Before assembly, ensure that the tapered screw is turned back all the way (chamber is open). Twisting the cables is not permitted. The wires must be inserted as far as they will go into the contact chamber (until the insulation touches the contact). Hold the wires in position and use the socket wrench to tighten. The used wire end should be cut off before connecting again. The connection screw may only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically supported at an appropriate distance from the connection point (e.g., when used in a sheet metal cut-out). DIN VDE 0100-520:2003-06 provides information on the correct way to do this. Unused connections must be tightened with maximum torque. Shrink the shrink sleeve over the connection point and the conductor. Temperature > 80°C.
Hexagonal socket	SW 5

Product properties

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

No. of control contacts	0

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

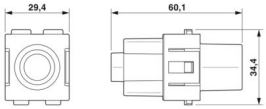
Connection technology

Connection technology	Axial screw connection

Conductor connection

Conductor cross-section	6 mm² ... 70 mm² (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 mm² ... 10 mm²)
	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	60 mm
Length	29.4 mm

Mechanical characteristics

Minimum housing height	72 mm
Contact diameter	9.5 mm

Electrical properties

Rated voltage (III/3)	1000 V
Rated surge voltage	8 kV
Rated current	200 A
SCCR	5 kA (UL 2237)

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

Environmental and real-life conditions

Ambient conditions

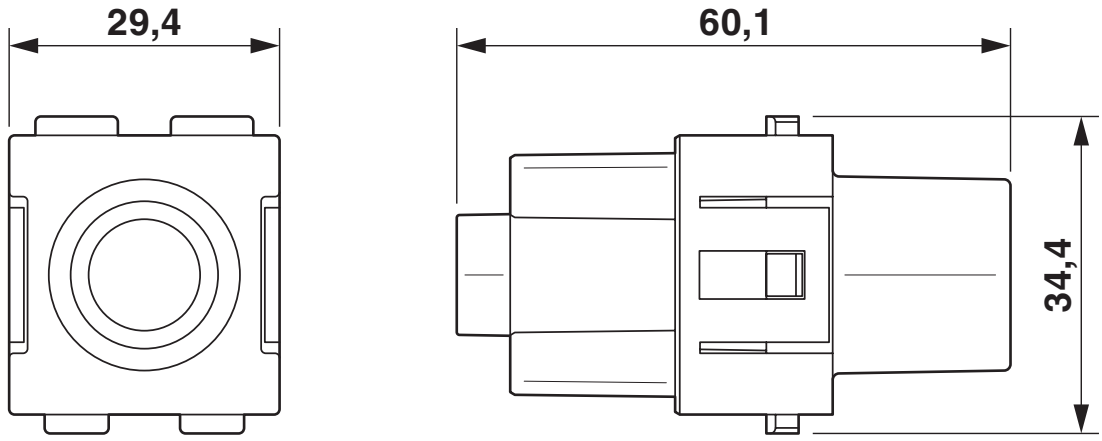
Ambient temperature (operation)	-40 °C ... 125 °C

Standards and regulations

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

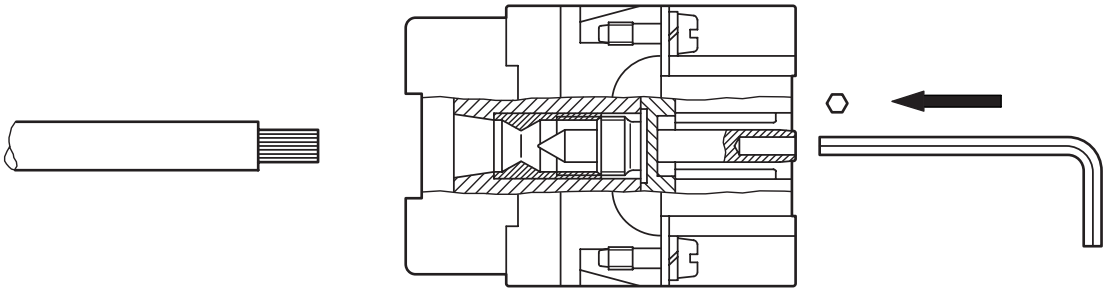
Drawings

Dimensional drawing



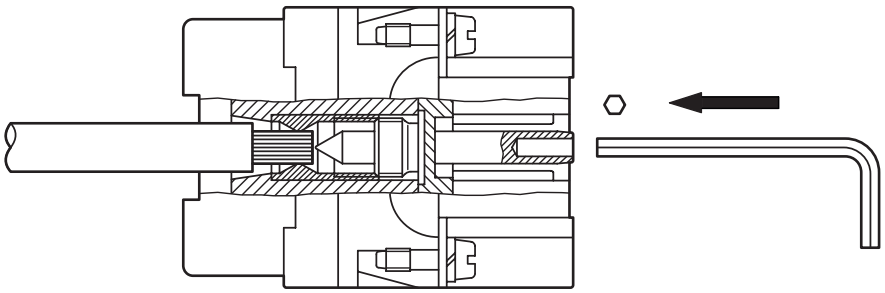
Female insert

Schematic diagram

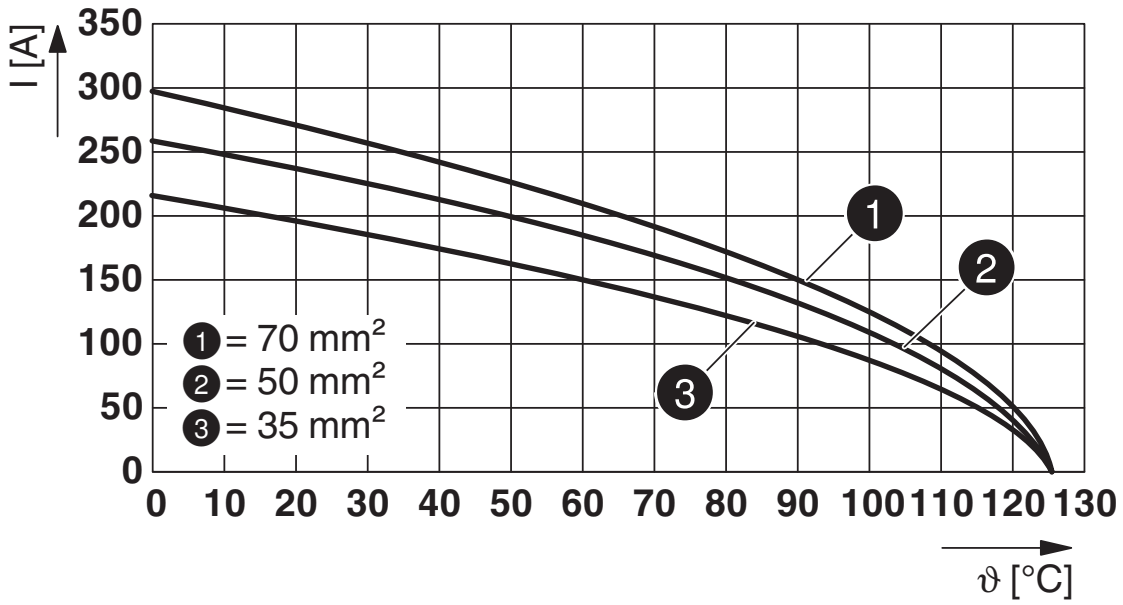


Axial connection

Schematic diagram



Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1417379

DNV
Approval ID: TAE000037S

CSA
Approval ID: 158887

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	116 A	- 00	-

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	146 A	- 00	-

UL Recognized
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	146 A	-	-

Classifications

ECLASS

ECLASS-13.0	27440217
ECLASS-15.0	27440217

ETIM

ETIM 10.0	EC000438

UNSPSC

UNSPSC 21.0	39121400

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%

EF3.1 Climate Change

CO2e kg	0.553 kg CO2e

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