HC-M-02-CT-F-HV-16 - Contact insert module

1417407

https://www.phoenixcontact.com/us/products/1417407

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Contact insert module, number of positions: 2, power contacts: 2, control contacts: 0, Socket, Crimp connection, 2900 V/5000 V, 16 A, 0.5 mm^2 ... 4 mm^2, application: High-voltage

Commercial data

Item number	1417407
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626112725
Weight per piece (including packing)	64.4 g
Weight per piece (excluding packing)	55.2 g
Customs tariff number	85389099
Country of origin	PL

Technical data

Notes

General	For HEAVYCON housing type B6 to B48, HC-M-B...MF-... hinged module carrier frame required, CK2,5-ED... imp contacts, crimp contacts not supplied as standard.
General	Connectors may be operated only when there is no load/voltage.

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	Assembly procedure: - Strip wire 9.5 mm, - connect the stripped part of the wire through the locking sleeve (for wire diameter > 3.2 mm), - crimp wire (with protracted locking sleeve) with CK2.5...ED crimp contact, - lock the locking sleeve with the crimp contact together with the module's insulating body.

Product properties

Product type	Modular contact insert
Series	HC-M-HV
Application	High-voltage
Number of positions	2
Connection profile	2
Contact numbering	I, II
Number of module slots	2
No. of power contacts	2
No. of control contacts	0
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

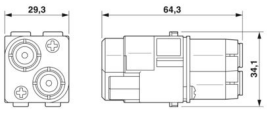
Connection technology

Connection technology	Crimp connection

Conductor connection

Conductor cross-section	0.5 mm² ... 4 mm²
Connection cross section AWG	20 ... 12
Stripping length of the individual wire	9.5 mm

Dimensions

Dimensional drawing	
Width	34.1 mm
Height	64.3 mm
Length	29.3 mm

Mechanical characteristics

Minimum housing height	72 mm
Contact diameter	2.5 mm

Electrical properties

Rated voltage (III/3)	2900 V (Conductor-PE)
	5000 V (Conductor-Conductor)
Rated voltage for power contacts	2900/5000 V
Rated surge voltage	15 kV
Rated current	16 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 (alternatively Au)
Contact carrier material	PC

Environmental and real-life conditions

Ambient conditions

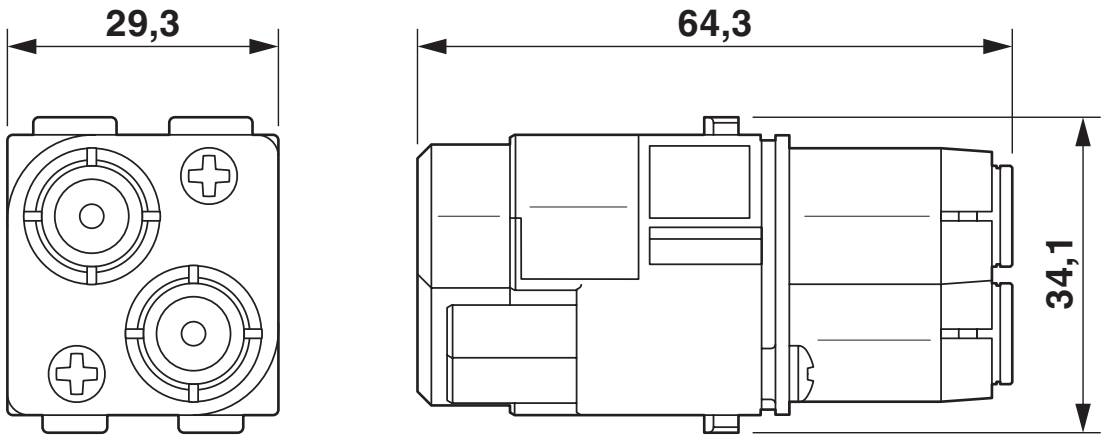
Ambient temperature (operation)	-40 °C ... 125 °C

Standards and regulations

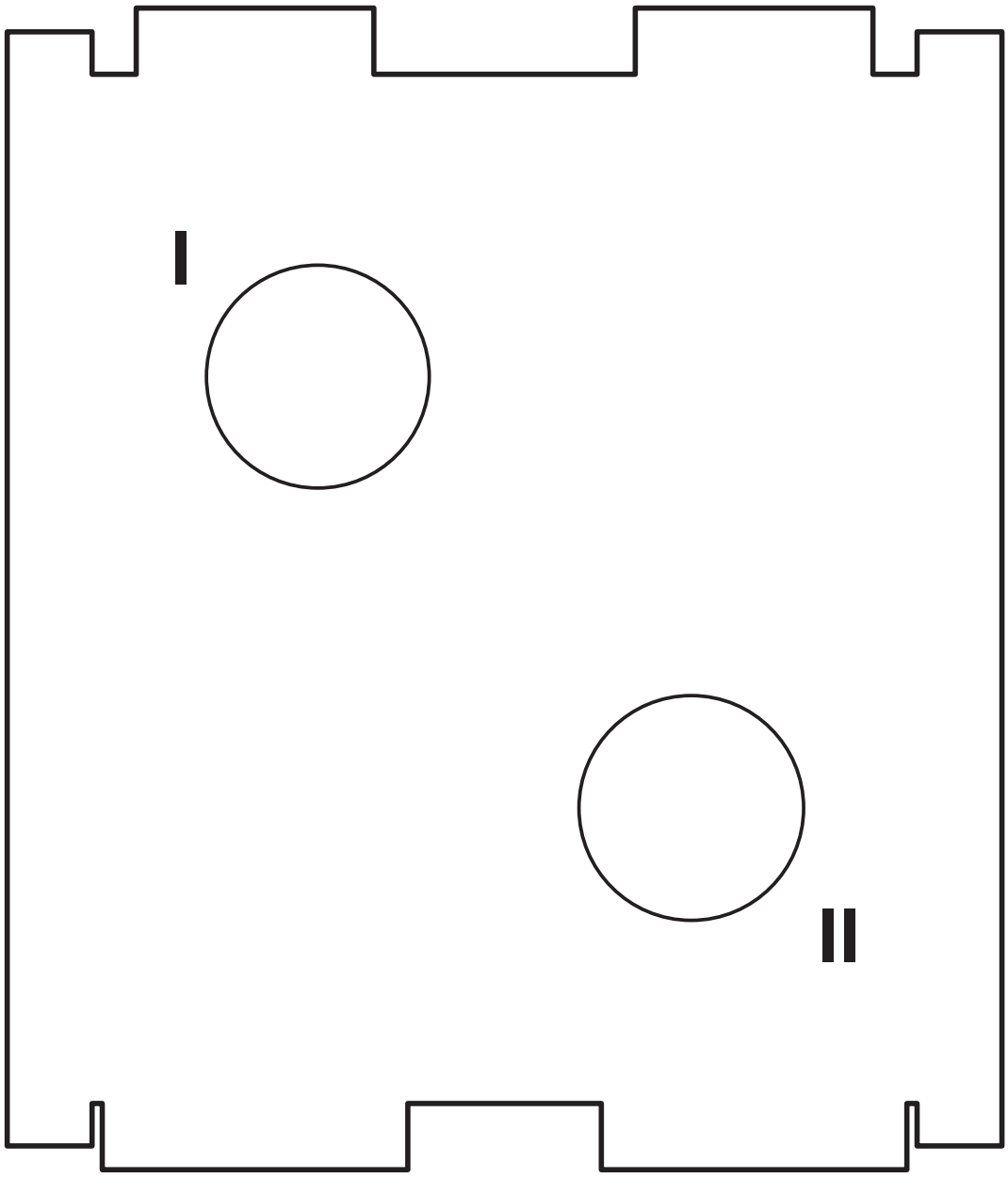
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Drawings

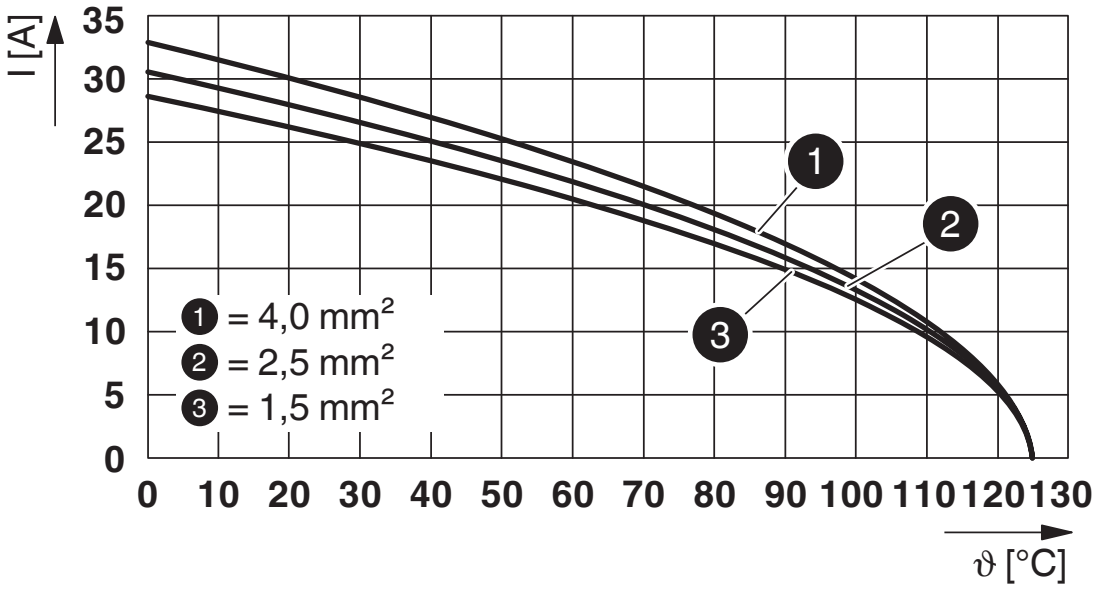
Dimensional drawing



Schematic diagram



Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1417407

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	24 A	- 12	-

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	28 A	- 12	-

UL Recognized
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	28 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	4.147 kg CO2e

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