

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 mm² ... 4 mm², 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

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Technical data

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	Assembly procedure: <ul style="list-style-type: none">- 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
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Conductor connection

Conductor cross-section	0.5 mm ² ... 4 mm ²
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

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Length	29.3 mm
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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
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Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC
Standards/regulations	PC

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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Standards and regulations

Testing

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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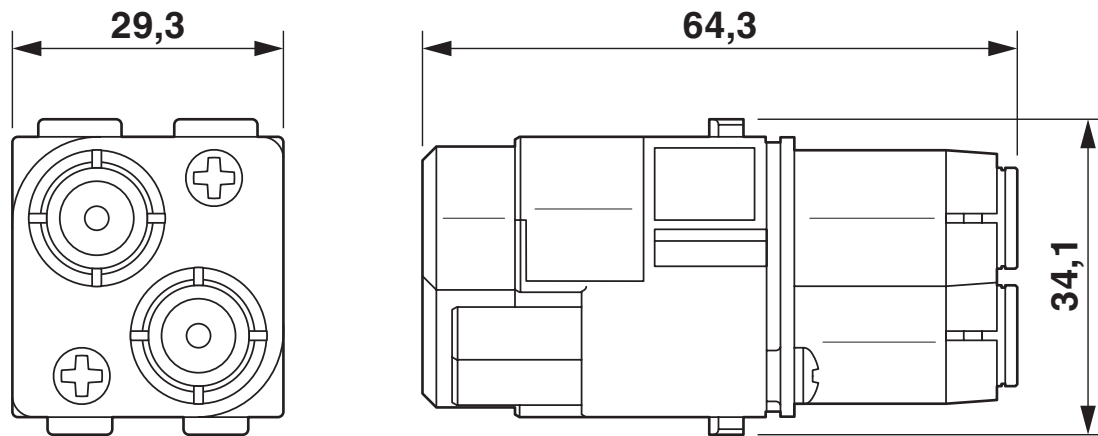
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Drawings

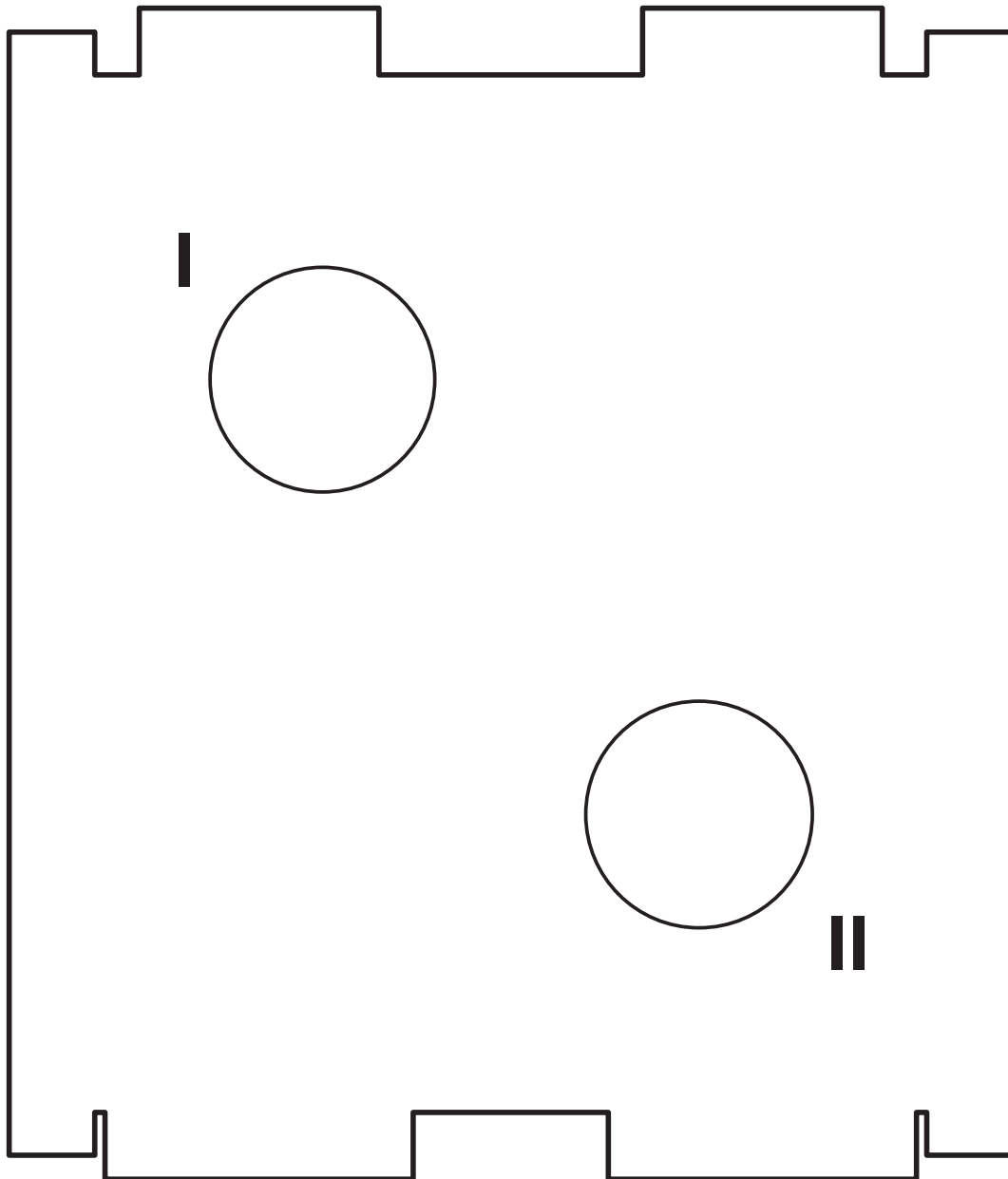
Dimensional drawing



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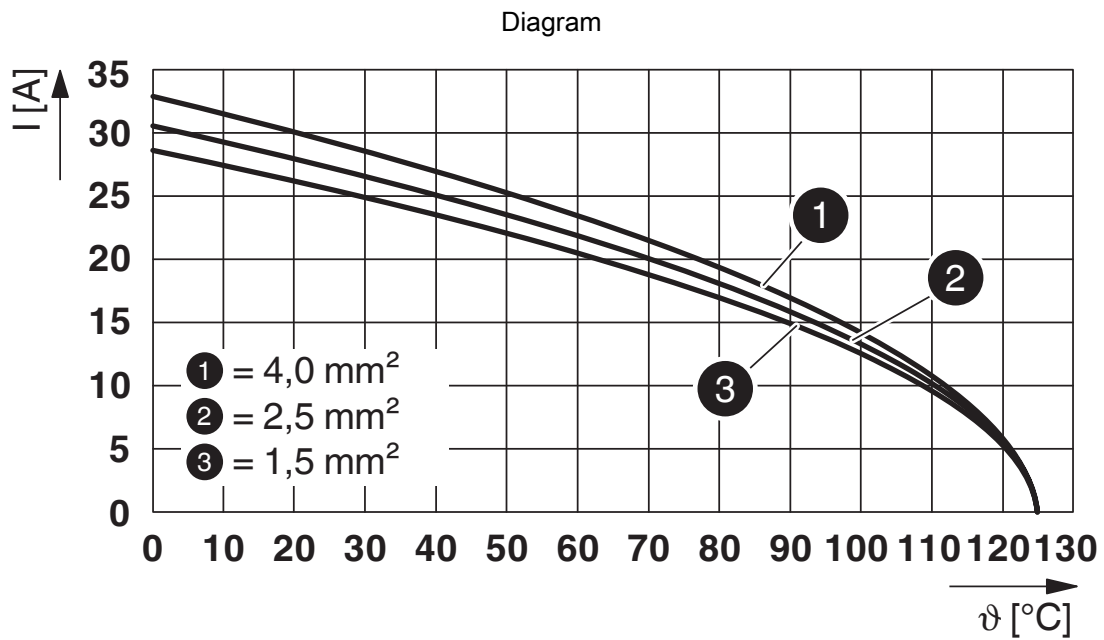
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Schematic diagram



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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/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	-	-

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Classifications

ECLASS

ECLASS-13.0	27440217
ECLASS-15.0	27440217

ETIM

ETIM 10.0	EC000438
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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EF3.1 Climate Change

CO2e kg	4.149 kg CO2e
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com