

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



1417408

<https://www.phoenixcontact.com/us/products/1417408>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Contact insert module, number of positions: 2, power contacts: 2, control contacts: 0, Pin, Crimp connection, 2900 V/5000 V, 16 A, 0.5 mm² ... 4 mm², application: High-voltage

Commercial data

Item number	1417408
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	BF7ACE
Catalog page	Page 579 (C-2-2019)
GTIN	4055626112732
Weight per piece (including packing)	58.9 g
Weight per piece (excluding packing)	54 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

Data management status

Article revision	04
------------------	----

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

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



1417408

<https://www.phoenixcontact.com/us/products/1417408>

Dimensions

Dimensional drawing	
Width	34.1 mm
Height	61.3 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

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
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
---------------------------------	-------------------

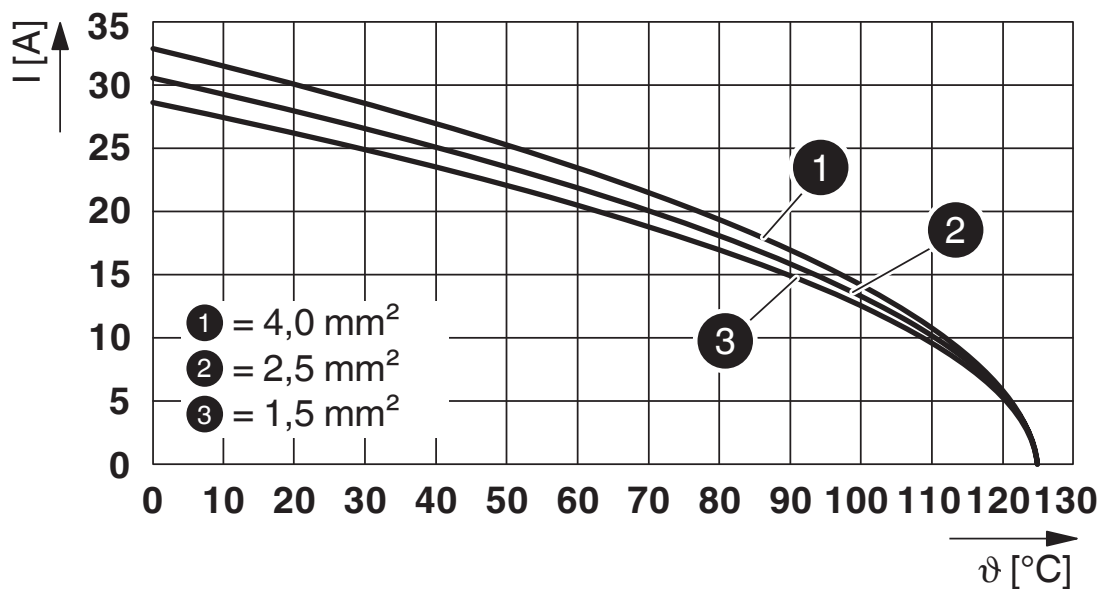
Standards and regulations

Testing

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

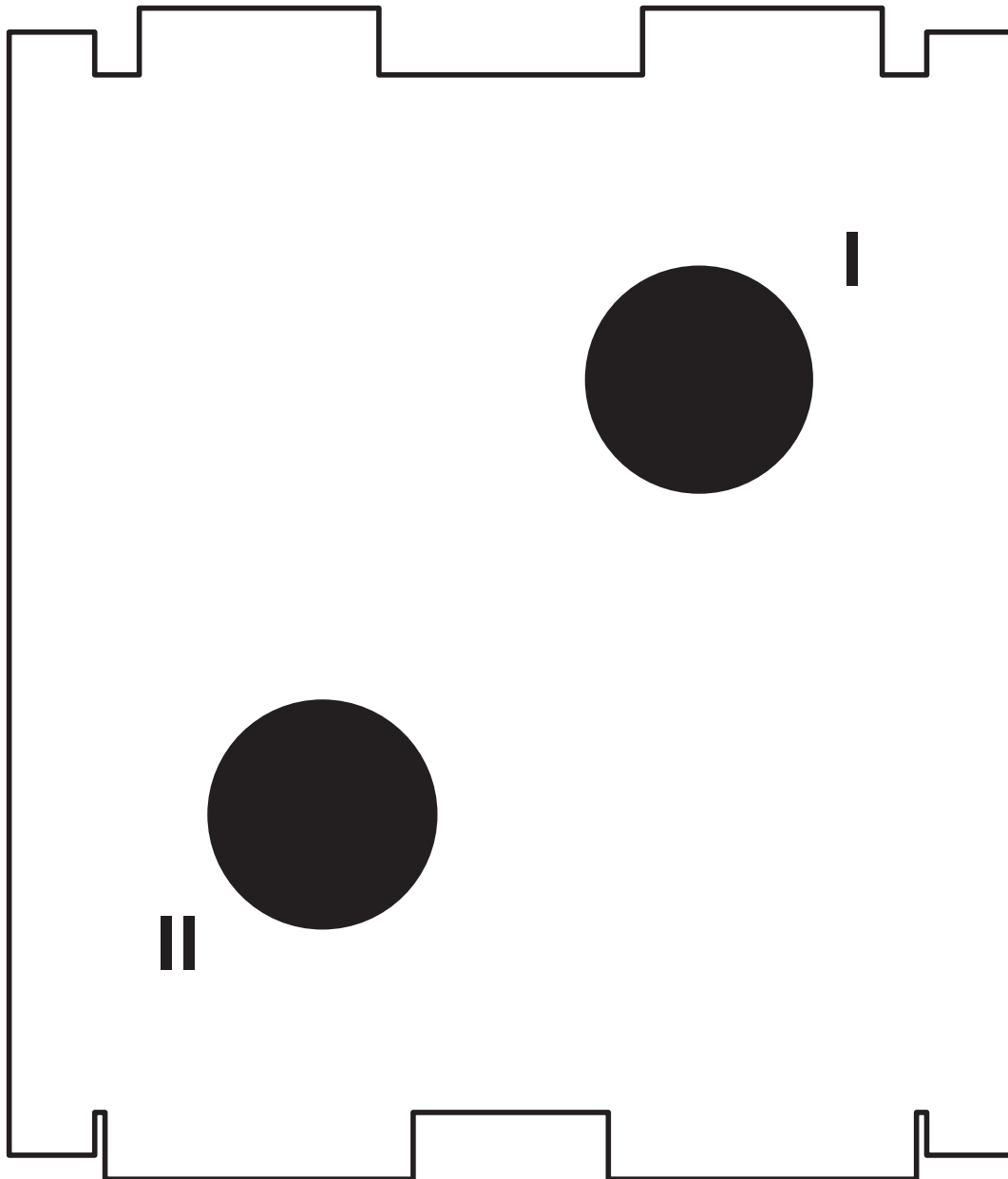
Drawings

Diagram



Derating diagram

Schematic diagram



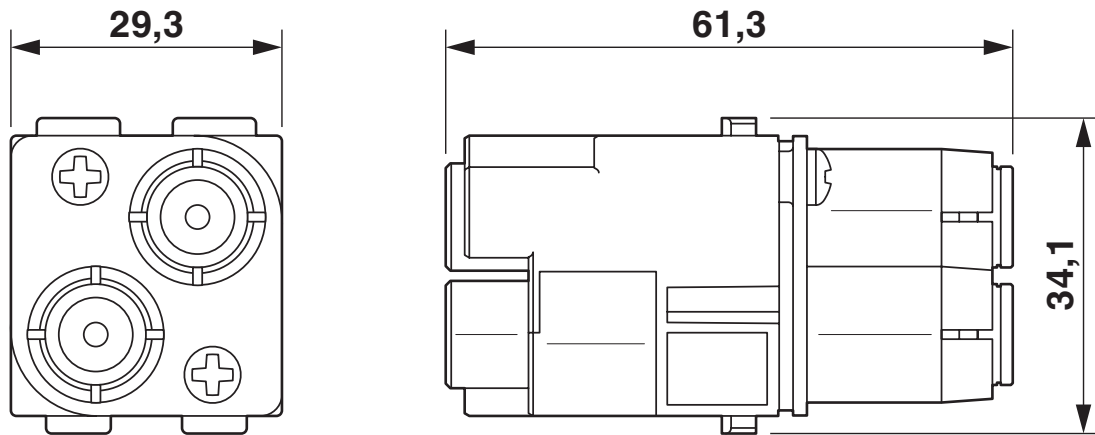
HC-M-02-CT-M-HV-16 - Contact insert module



1417408

<https://www.phoenixcontact.com/us/products/1417408>

Dimensional drawing



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



1417408

<https://www.phoenixcontact.com/us/products/1417408>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1417408>

DNV Approval ID: TAE000037S				
---------------------------------------	--	--	--	--

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	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
	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
	600 V	28 A	-	-

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



1417408

<https://www.phoenixcontact.com/us/products/1417408>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000438
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

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



1417408

<https://www.phoenixcontact.com/us/products/1417408>

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%

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

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