

1417407

<https://www.phoenixcontact.com/no/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	31BBF
Product key	BF7ACE
Catalog page	Page 579 (C-2-2019)
GTIN	4055626112725
Weight per piece (including packing)	59.6 g
Weight per piece (excluding packing)	55.2 g
Customs tariff number	85389099
Country of origin	PL

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



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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 instructions	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.
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Product properties

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

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

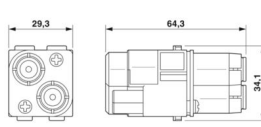
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Dimensional drawing



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

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: 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
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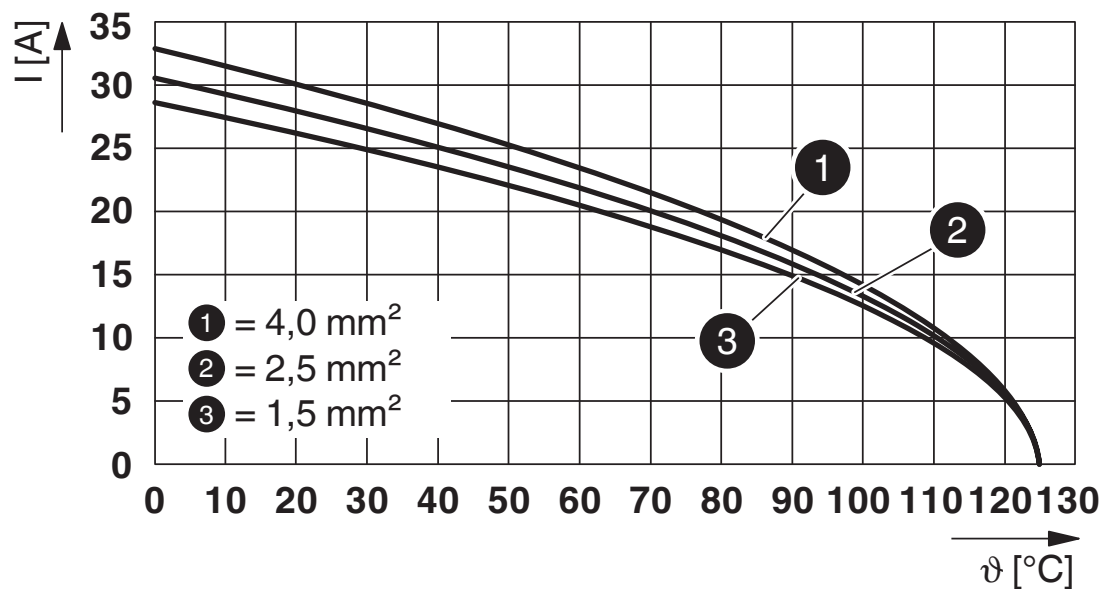
Standards and regulations

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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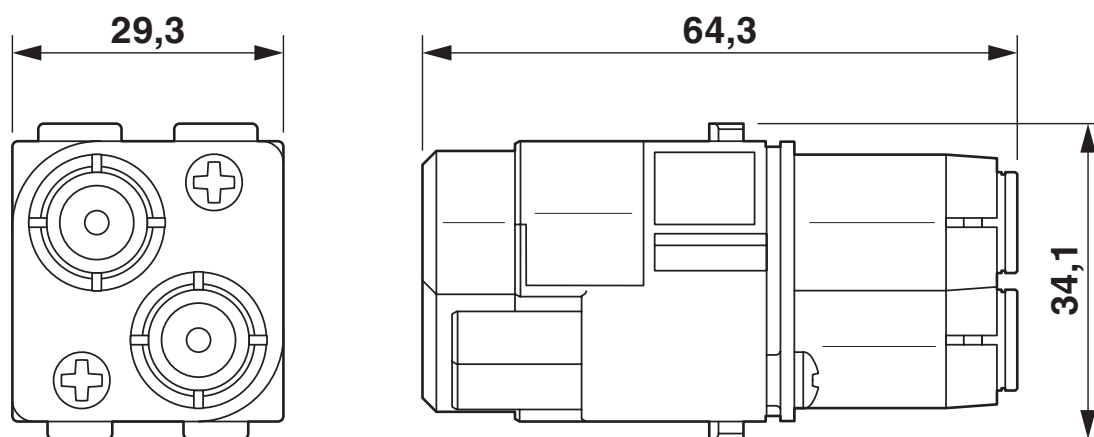
Drawings

Diagram



Derating diagram

Dimensional drawing



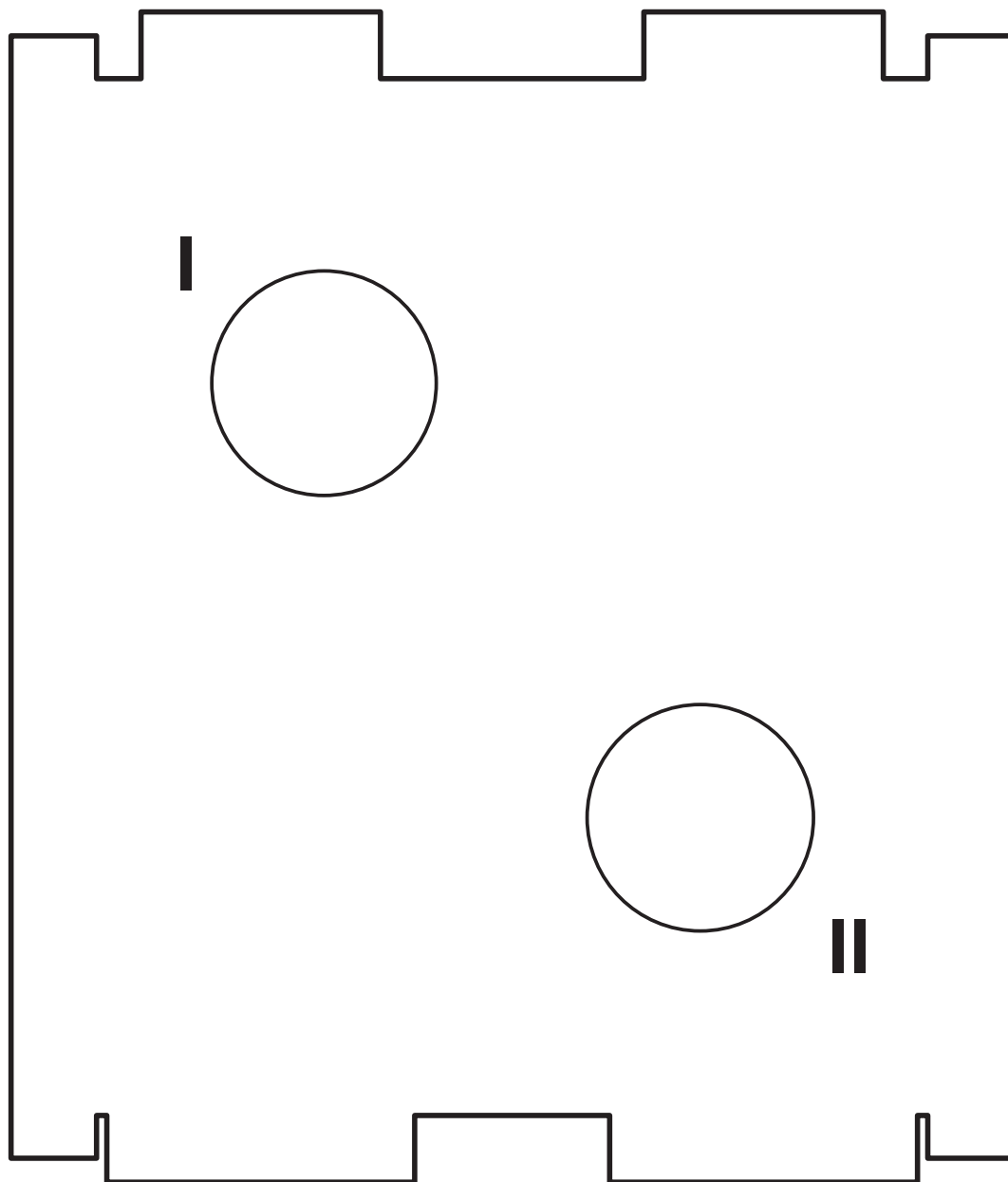
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Schematic diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1417407>

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	-	-

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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