HC-M-03/04-CT-M - Contact insert module

1414364

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Contact insert module, number of positions: 3+4, power contacts: 3, control contacts: 4, Pin, Crimp connection, 500 V, 40 A, 1.5 mm^2 ... 6 mm^2, application: Power/signal

Commercial data

Item number	1414364
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626025070
Weight per piece (including packing)	12.4 g
Weight per piece (excluding packing)	12.75 g
Customs tariff number	85389099
Country of origin	PL

Technical data

Notes

General	For HEAVYCON HC-B6 to B48 housing, HC-M-MHR... hinged retaining frame required, crimp connection, power contacts: CK 4,0-ED..., control contacts: CK 1,6-ED... (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
	The module cannot be used simultaneously with HC-B...-TMB-SD-IP65 and HC-B...-TMS-SD-IP65 protective covers. Not suitable for CK1,6-ED-...POF fiber optic contacts.

Product properties

Product type	Modular contact insert
Series	HC-M-03/04
Application	Power/signal
Number of positions	7
Connection profile	3+4
Contact numbering	1 - 3 (power contacts)
	1 - 4 (control contacts)
Number of module slots	1
No. of power contacts	3
No. of control contacts	4
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

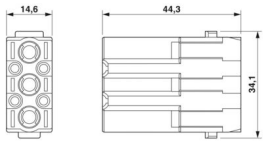
Connection technology

Connection technology	Crimp connection (power contacts)

Conductor connection

Conductor cross-section	1.5 mm² ... 6 mm² (power contacts)
	0.14 mm² ... 2.5 mm² (control contacts)
Connection cross section AWG	16 ... 10 (power contacts)
	26 ... 14 (control contacts)
Stripping length of the individual wire	9 mm (14 mm (4 mm² ... 6 mm²))
	6 mm (6 mm (2,5 mm²))

Dimensions

Dimensional drawing	
Width	34.2 mm
Height	44.3 mm
Length	14.6 mm

Mechanical characteristics

Minimum housing height	52 mm
Contact diameter	4 mm

Electrical properties

Rated voltage (III/2) contacts	960 V (control contacts)
Rated voltage (III/3)	500 V (power contacts)
	690 V (control contacts)
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	6 kV
Rated surge voltage	8 kV (power contacts)
	8 kV (control contacts)
Rated current	40 A (power contacts)
	10 A (control contacts)
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
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag (alternatively Au)

Environmental and real-life conditions

Ambient conditions

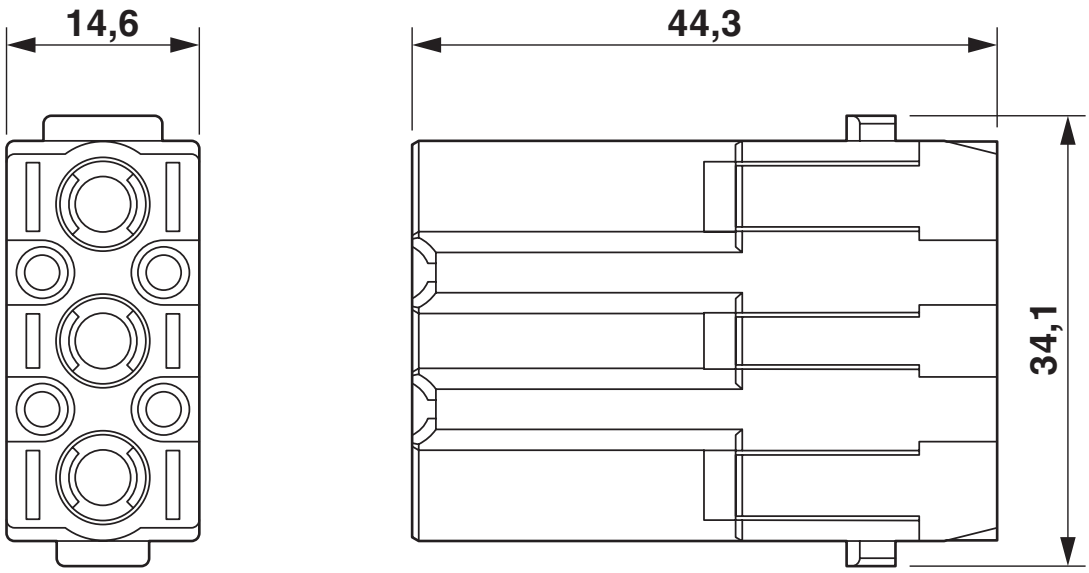
Ambient temperature (operation)	-40 °C ... 125 °C

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)

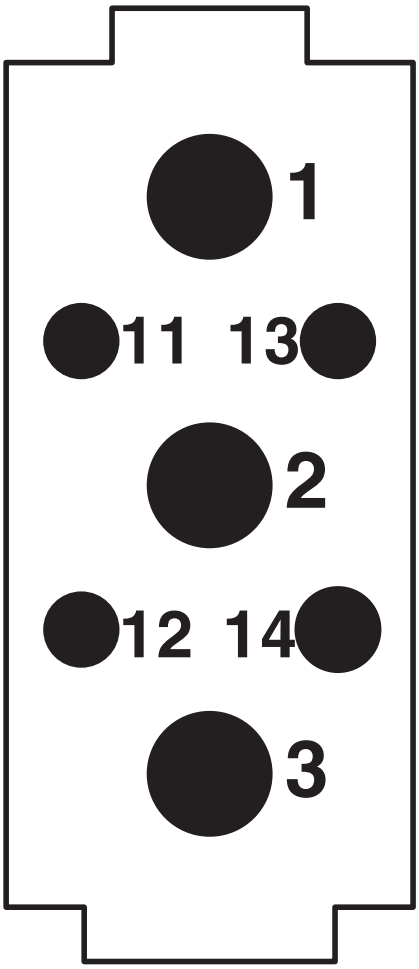
Drawings

Dimensional drawing



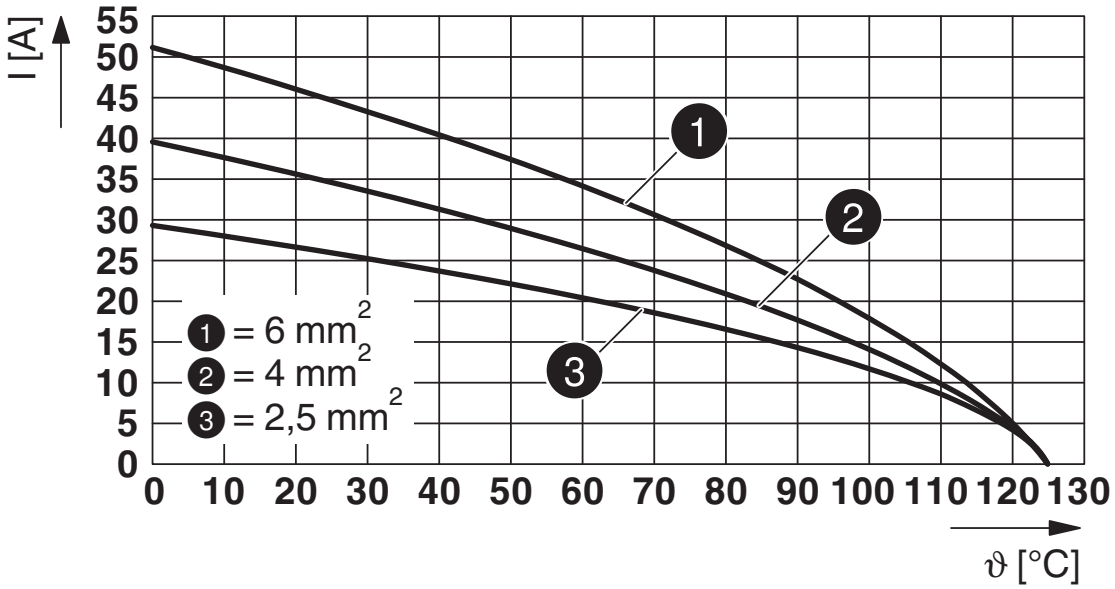
Male insert

Schematic diagram



Connector pin assignment, connection side

Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414364

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	33 A	- 10	-

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	40 A	- 10	-
Control	600 V	10 A	- 14	-

UL Recognized
Approval ID: E468743

UL Recognized
Approval ID: E468743

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	0.071 kg CO2e

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