

HC-M-25-CT-F - Contact insert module



1414375

<https://www.phoenixcontact.com/us/products/1414375>

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Contact insert module, number of positions: 25, power contacts: 0, control contacts: 25, Socket, Crimp connection, 30 V, 4 A, 0.08 mm² ... 0.5 mm², application: Signal

Commercial data

Item number	1414375
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626025285
Weight per piece (including packing)	8.735 g
Weight per piece (excluding packing)	8.735 g
Customs tariff number	85389099
Country of origin	PL

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Technical data

Notes

General	For HEAVYCON housing type B6 to B48, snap in frames necessary, crimp contacts VS-...CD-1,0... (Crimp contacts not included in scope of supply)
General	Connectors may be operated only when there is no load/voltage.
General	The use of guide pins (HC-CST) and sockets (HC-CBU) is recommended to prevent tip collision due to misalignment.

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
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Product properties

Product type	Modular contact insert
Series	HC-M-25
Application	Signal
Number of positions	25
Connection profile	25
Contact numbering	1 - 25
Number of module slots	1
No. of power contacts	0
No. of control contacts	25
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

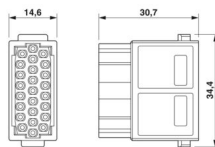
Connection technology

Connection technology	Crimp connection
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Conductor connection

Conductor cross section	0.08 mm ² ... 0.5 mm ²
Connection cross section AWG	28 ... 20
Stripping length of the individual wire	4.2 mm

Dimensions

Dimensional drawing	
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Width	34.2 mm
Height	30.65 mm
Length	14.6 mm

Mechanical characteristics

Minimum housing height	52 mm
Contact diameter	1 mm

Electrical properties

Rated voltage (III/2) contacts	60 V
Rated voltage (III/3)	30 V
Rated surge voltage (III/2)	0.8 kV
Rated surge voltage (III/3)	0.8 kV
Rated surge voltage	0.8 kV
Rated current	4 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	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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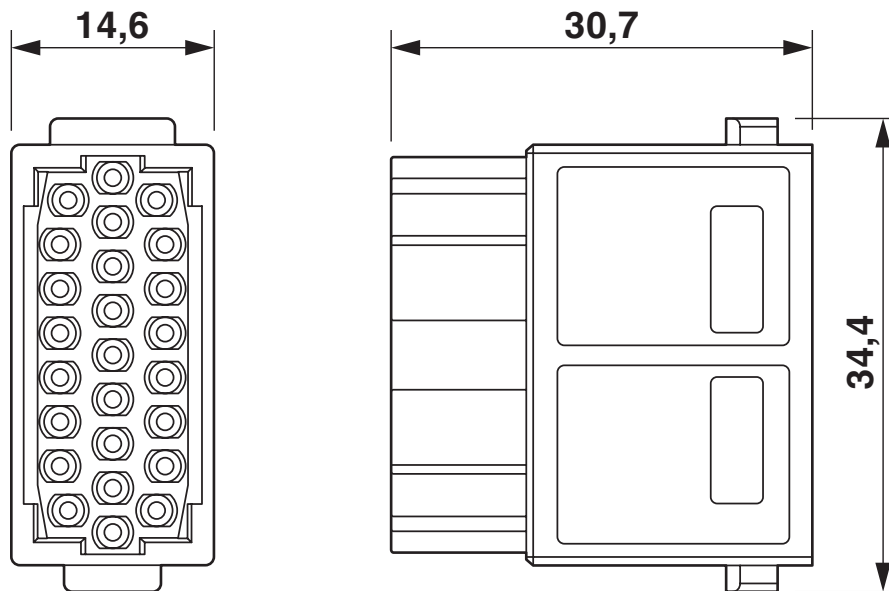
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Drawings

Dimensional drawing



Female insert

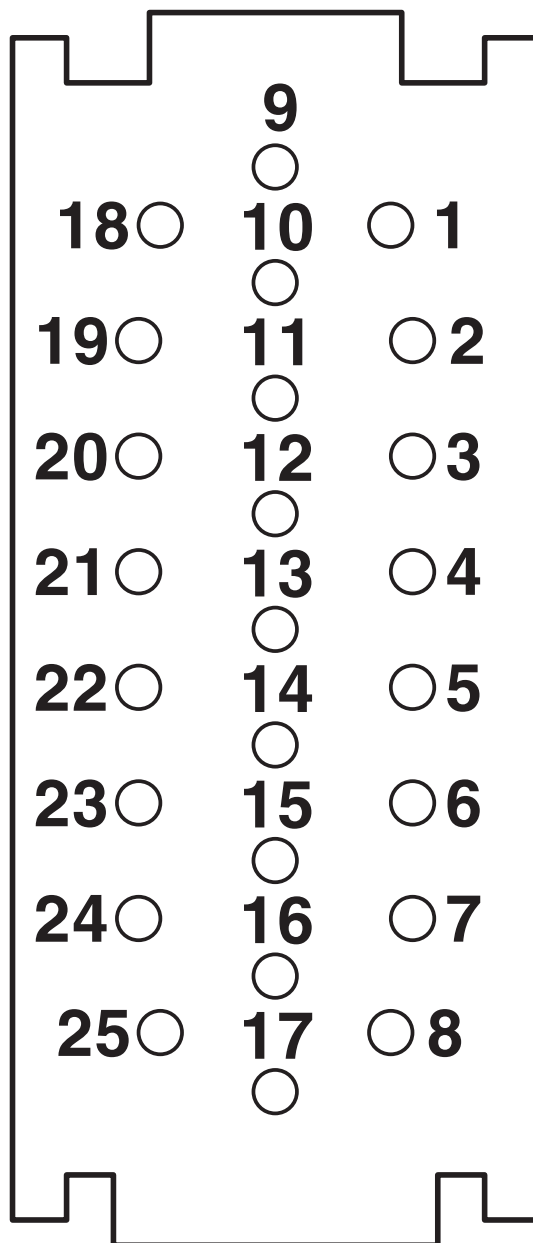
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Schematic diagram



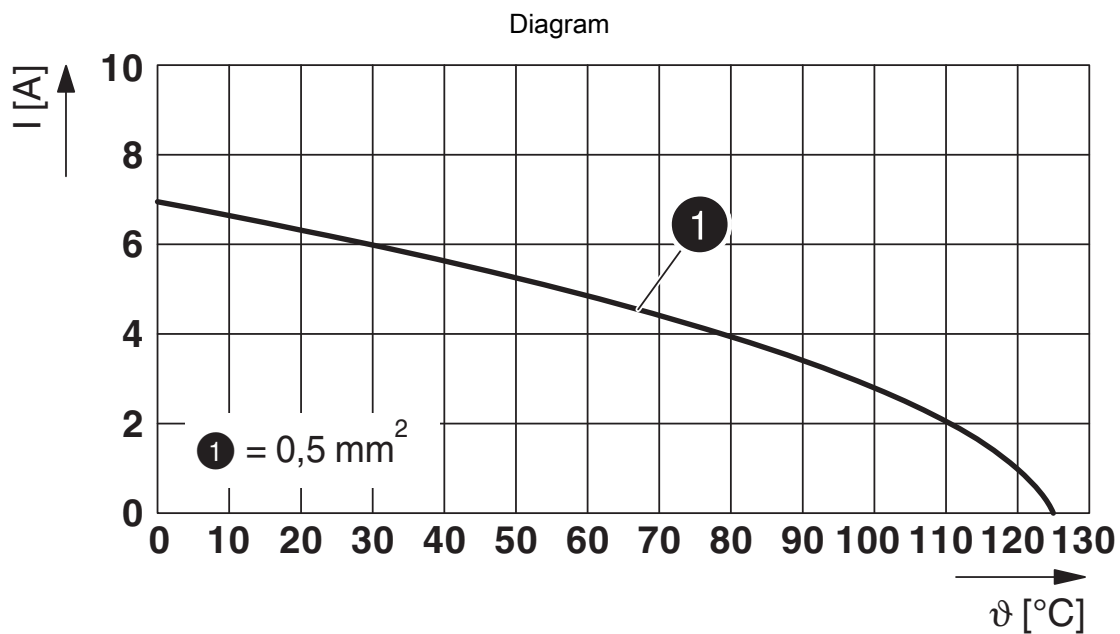
Connector pin assignment, connection side

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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/1414375>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	30 V	4 A	- 20	-



UL Recognized

Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	50 V	5 A	- 20	-



UL Recognized

Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	50 V	5 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27440217
ECLASS-15.0	27440217

ETIM

ETIM 9.0	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
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%
EF3.0 Climate Change	
CO2e kg	0.046 kg CO2e