

HC-A16-I-CT-F - Contact insert



1585443

<https://www.phoenixcontact.com/us/products/1585443>

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Contact insert, number of positions: 16+PE, size: D25, number of connections per position: 1, Socket, Crimp connection, 250 V, 16 A, 0.5 mm² ... 4 mm²



Your advantages

- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

Item number	1585443
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABB
GTIN	4046356285179
Weight per piece (including packing)	34.3 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	for plastic coding profiles: 4 pcs.

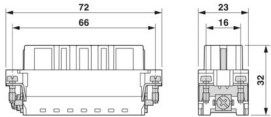
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-A
Type	D25 D50
Number of positions	16
Connection profile	16+PE
Contact numbering	1 - 16
Number of connections per position	1
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	23 mm
Height	33 mm
Length	72 mm
Drill hole distance, horizontal	66 mm
Drill hole distance, vertical	16 mm

Mechanical characteristics

Contact diameter	2.5 mm
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Connection data

Connection technology

Connection technology	Crimp connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross-section	0.5 mm ² ... 4 mm ² (applies to stranded conductors)
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Connection cross section AWG	20 ... 12
Tightening torque	0.7 Nm ... 1 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	8 mm

Electrical properties

Rated voltage (III/3)	250 V
Rated surge voltage	4 kV
Rated current	16 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
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Material specifications

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 (including heating up of contacts)
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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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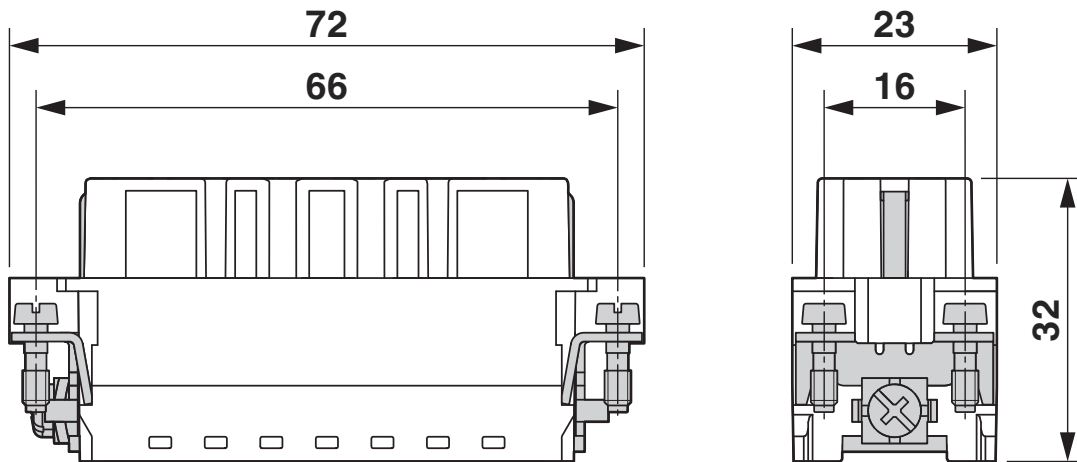
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Drawings

Dimensional drawing



Female insert

Dimensional drawing



Mounting cutout

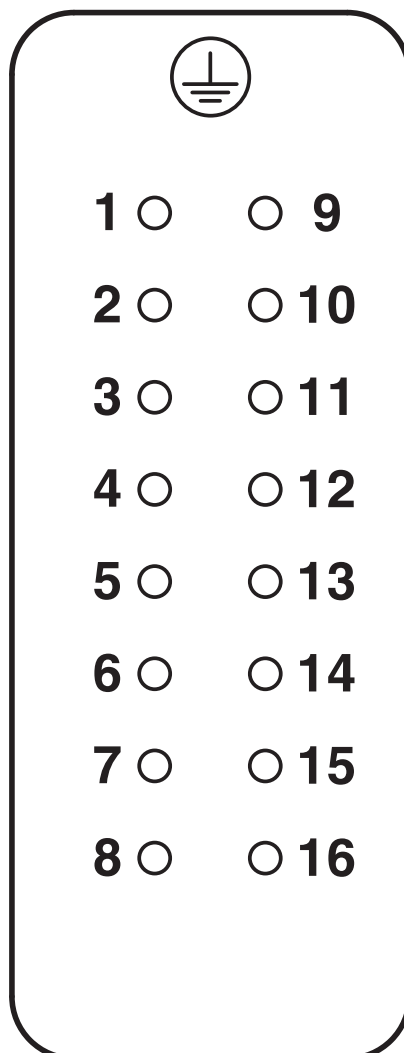
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Schematic diagram



Connector pin assignment, connection side

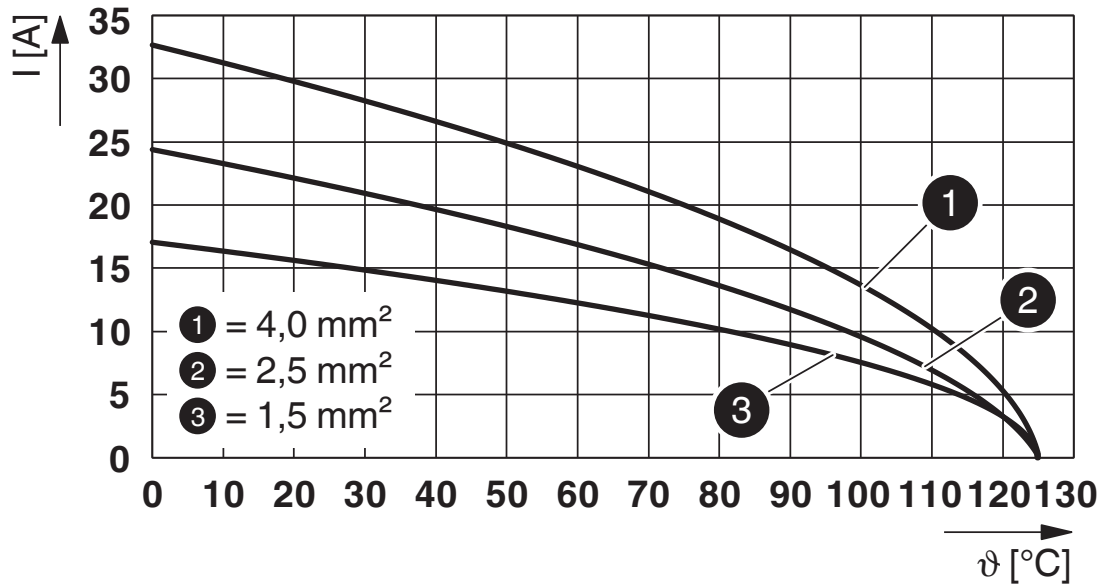
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Diagram



Derating diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1585443>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 013631_6233_01

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	250 V	16 A	- 12	-



cULus Recognized

Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	250 V	16 A	- 12	-

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Classifications

ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

ETIM

ETIM 10.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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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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