

HC-DD108-I-CT-F-216 - Contact insert



1584143

<https://www.phoenixcontact.com/no/products/1584143>

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Contact insert, number of positions: 108+PE, size: B24, Socket, Crimp connection, 250 V, 10 A, 0.14 mm² ... 2.5 mm², application: Signal

Your advantages

- Can be used in rail vehicles, satisfy DIN EN 45545-2 with requirement sets R22, R23, and R24 in hazard levels HL1, HL2, and HL3.

Commercial data

Item number	1584143
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	31BBF
Product key	BF7ABF
Catalog page	Page 539 (C-2-2019)
GTIN	4046356133456
Weight per piece (including packing)	78.8 g
Weight per piece (excluding packing)	78.8 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Notes

General	For housing HC-B24
General	Connectors may be operated only when there is no load/voltage.
General	It is imperative that guide pins (HC-CST) and sockets (HC-CBU) are used to prevent tip collision due to misalignment.

Mounting

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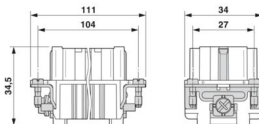
Product properties

Type	B24 B48
Product type	Contact insert with a fixed no. of positions
Number of positions	108
Connection profile	108+PE
Contact numbering	109 - 216
Application	Signal
Contact material type	turned rolled
Series	HC-DD

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	34.5 mm
Length	111 mm
Drill hole distance, horizontal	104 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Minimum housing height	72 mm
Contact diameter	1.6 mm

Connection data

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Connection technology

Connection technology	Crimp connection
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross section	0.14 mm ² ... 2.5 mm ²
Connection cross section AWG	26 ... 14
Tightening torque	0.8 Nm ... 1.2 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 (0.14 mm ² ... 1.5 mm ²)
	6 mm (2.5 mm ²)

Electrical properties

Rated voltage (III/3)	250 V
Rated surge voltage	4 kV
Rated current	10 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	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 (including heating up of contacts)
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Standards and regulations

Constructional and testing regulations	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352
Tests	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97

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	IEC 60664-1, DIN IEC 60512
	IEC 60352
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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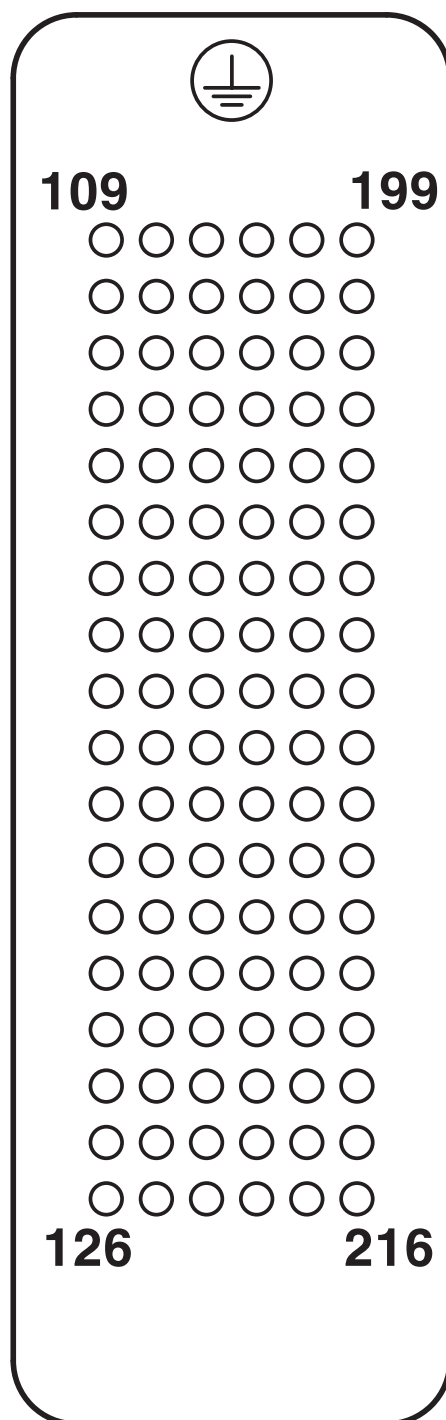
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Drawings

Schematic diagram



Connector pin assignment, connection side

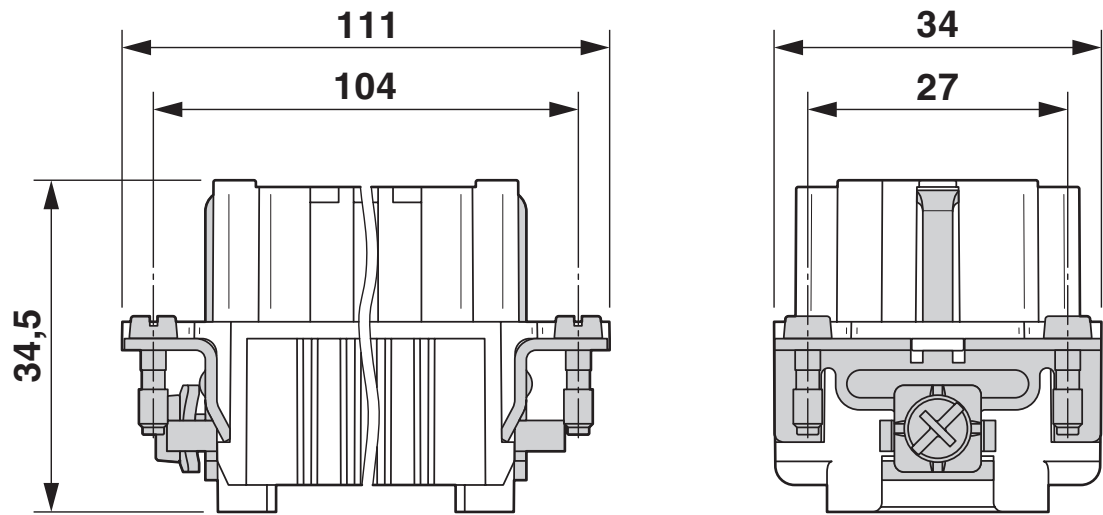
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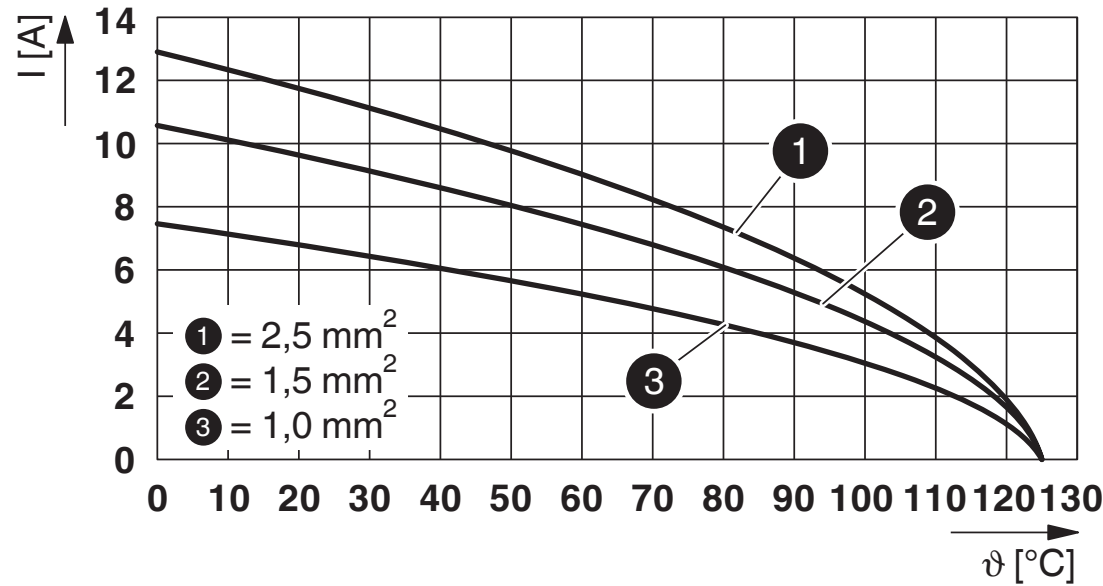
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Dimensional drawing



Female insert

Diagram

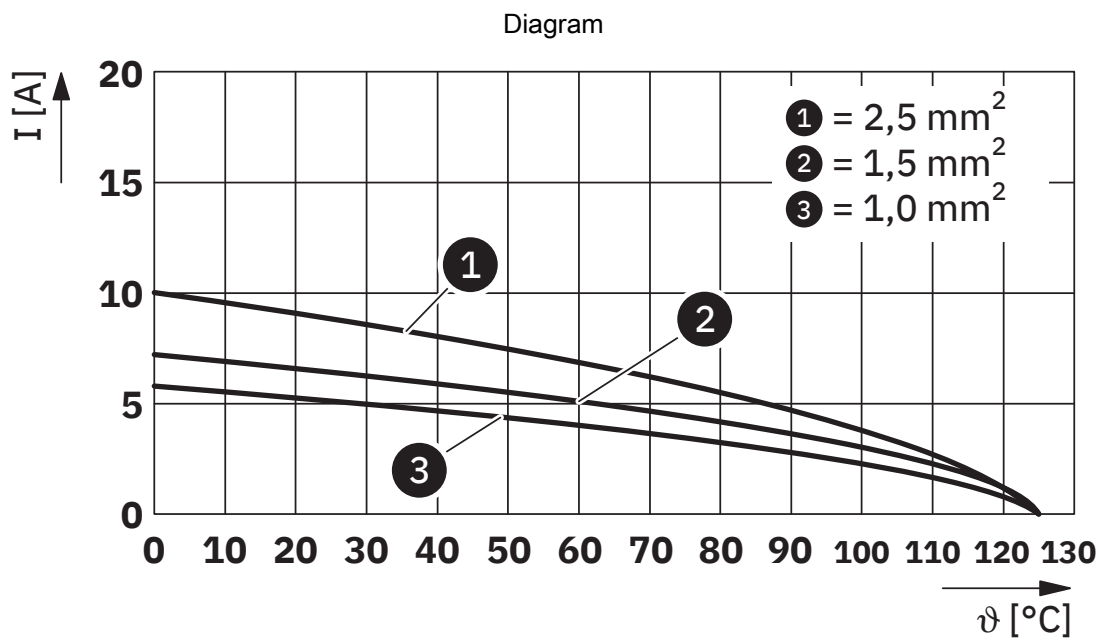


Derating diagram turned contacts

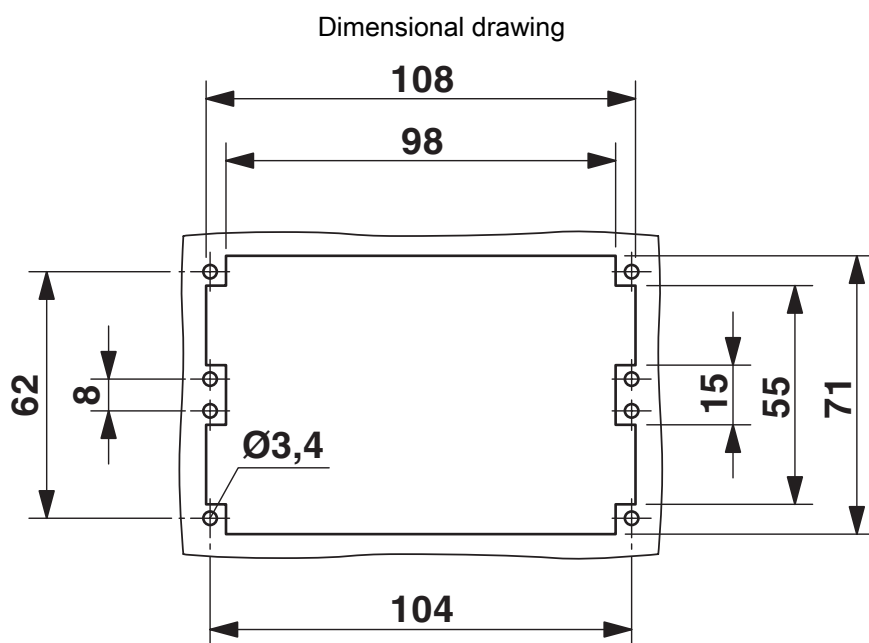
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Derating diagram rolled contacts



Mounting cutout when used without housing

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1584143>

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
	250 V	7 A	26 - 14	-



cUL Recognized

Approval ID: FILE E 118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	7 A	- 14	-



UL Recognized

Approval ID: FILE E 118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	10 A	- 14	-



EAC

Approval ID: RU C-DE.BL08.B.00511



cULus Recognized

Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	7 A	- 14	-

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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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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