PHOENIX CONTACT

Contact insert - HC-B24-I-TPT-M - 1423021

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Contact insert, number of positions: 24+PE, size: B24, number of connections per position: 2, Pin, Push-in connection, 500 V, 16 A, 0.25 mm² ... 1.5 mm², application: Power

Your advantages

☑ For fast coding with plastic profile

☑ Significant time savings during conductor connection

☑ Double conductor connection per pos.

RoHS
COMPLETE line

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 322742
GTIN	4055626322742

Technical data

General

Note	only use flexible conductors with ferrules
	Connectors may be operated only when there is no load/voltage.
Connection method	Push-in connection
Torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Number of connections per position	2
Degree of pollution	3
Overvoltage category	III
Number of positions	24+PE
Insertion/withdrawal cycles	≥ 500
Size	B24
	B48

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Technical data

General

Contact numbering	1 - 24
Conductor cross section	0.25 mm² ... 1.5 mm²
Connection cross section AWG	24 ... 16
Stripping length of the individual wire	8 mm ±1 mm
Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required

Ambient conditions

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

Material data

Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC

Electrical characteristics

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A

Standards and Regulations

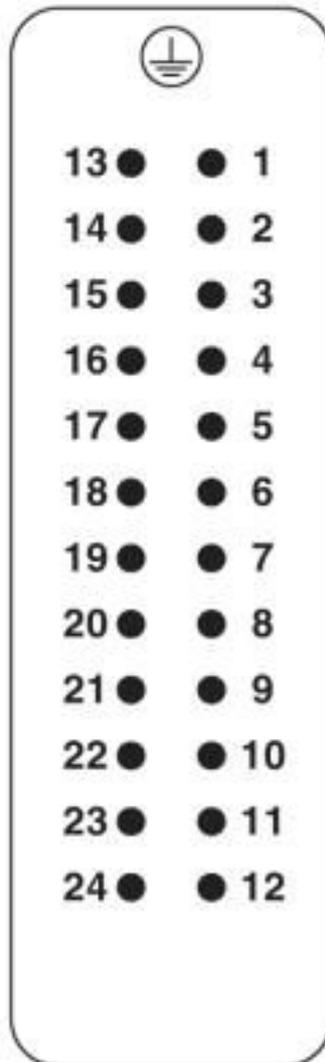|	
Constructional and testing regulations	DIN EN 61984
	DIN EN 60664
	IEC 60352
Flammability rating according to UL 94	V0

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

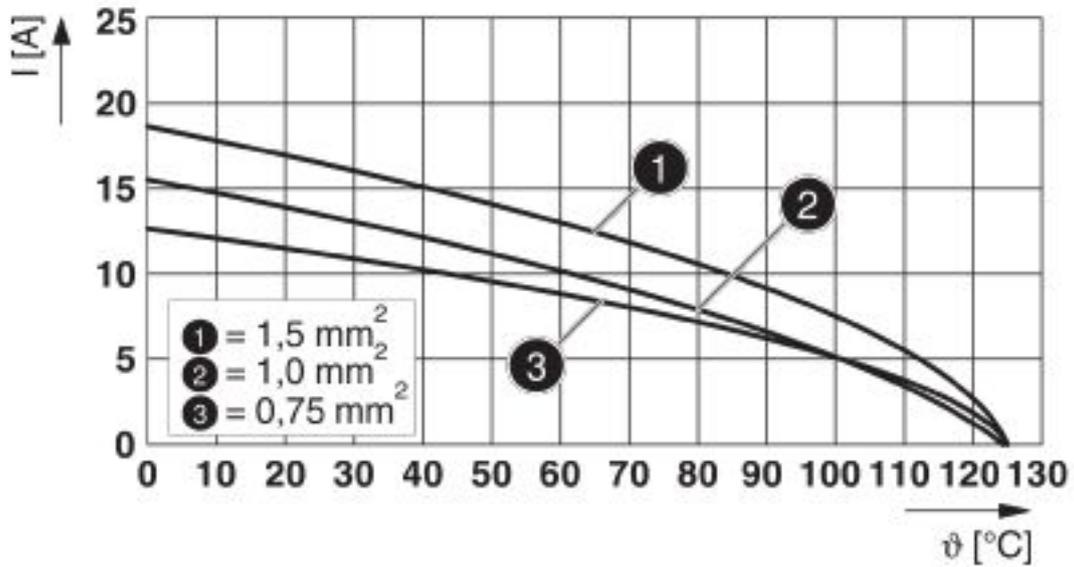# Contact insert - HC-B24-I-TPT-M - 1423021

Schematic diagram

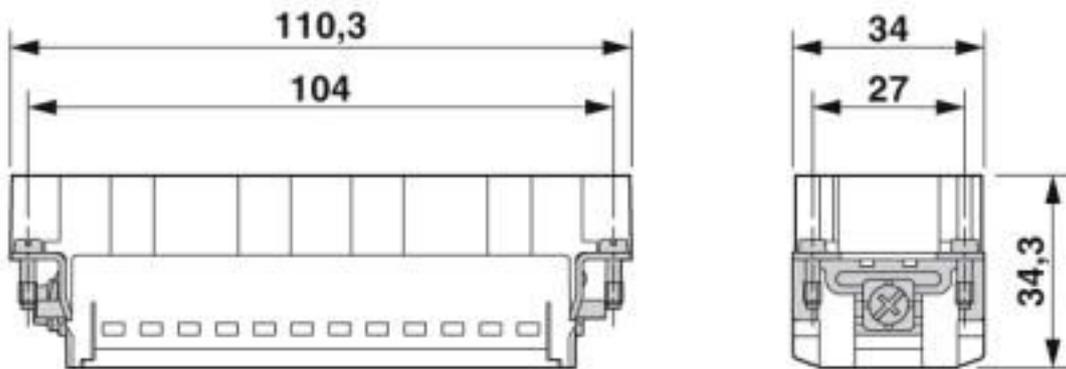Connector pin assignment, connection side
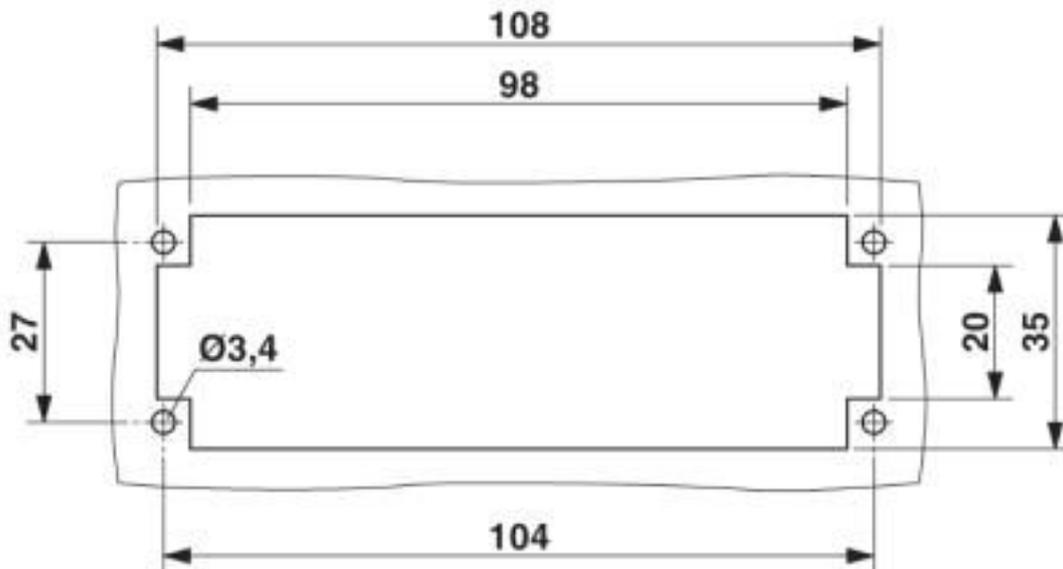
Contact insert - HC-B24-I-TPT-M - 1423021

Diagram

Derating diagram

Dimensional drawing

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Dimensional drawing

Mounting cutout when used without housing

Classifications

eCl@ss

eCl@ss 10.0.1	27440205
eCl@ss 11.0	27440205
eCl@ss 5.1	27261200
eCl@ss 6.0	27261200
eCl@ss 7.0	27440205
eCl@ss 8.0	27440205
eCl@ss 9.0	27440205

ETIM

ETIM 5.0	EC000438
ETIM 6.0	EC000438
ETIM 7.0	EC000438

Approvals

Approvals

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CSA / UL Recognized / EAC / EAC

Ex Approvals

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Approvals

Approval details

CSA	SP	http://www.csagroup.org/services-industries/product-listing/	13631
Nominal voltage UN		600 V	
Nominal current IN		10 A	
mm²/AWG/kcmil		16	

UL Recognized	ⓊL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E118976
Nominal voltage UN		600 V	
Nominal current IN		13 A	
mm²/AWG/kcmil		16	

EAC	EAC	EAC-Zulassung

EAC	EAC	RU C-DE.BL08.B.00511

Accessories

Accessories

Coding element

Coding profile - CP-HC - 1686478

Coding profile, 4 coding profiles per strip, for insertion in coding keyways

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Accessories

Coding element - HC-CBU - 1676860

Coding socket for coding up to 16 connectors

Coding bolt - HC-CB - 1772722

Coding pin, prevents mismating of up to six connectors with an identical number of positions

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Coding element - HC-CST - 1676857

Coding peg for coding up to 16 connectors

Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034

Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

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Docking frame

Docking frames - HC-B 24-ANDOCK - 1586141

Docking frame for racks, for contact inserts of B24 type, with four M5 flat headed screws, rack balance x/y axis +- 1.5 mm

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Mounting material

![PHŒNIX CONTACT logo]

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Accessories

Screw - HC-B-PES - 1604997

PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64

PE multiplier - HC-B-3PE - 1644326

PE multiplier, for three PE connections, for HC-B (besides HC-B..E..ZZ) / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

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Strain relief clamp - HC-B-ZG - 1685327

Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit

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Strain relief clamp - HC-B-ZS - 1685330

Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit

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Additional products

Contact insert - HC-B24-I-TPT-F - 1423022

Contact insert, number of positions: 24+PE, size: B24, number of connections per position: 2, Socket, Push-in connection, 500 V, 16 A, 0.25 mm² ... 1.5 mm², application: Power

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