

# HC-K 6/ 6 EBUS - Contact insert



1636402

<https://www.phoenixcontact.com/us/products/1636402>

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Contact insert, number of positions: 6+6+PE, size: B24, power contacts: 6, control contacts: 6, Socket, Axial screw connection, 690 V, 100 A, 16 mm<sup>2</sup> ... 35 mm<sup>2</sup>, application: Power/signal

## Your advantages

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

## Commercial data

Item number	1636402
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABA
GTIN	4046356180320
Weight per piece (including packing)	302.8 g
Weight per piece (excluding packing)	301.1 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing of type B24, with third-party logo
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
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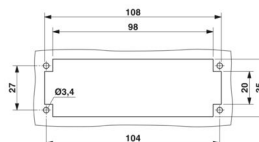
### Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-K
Application	Power/signal
Type	B24 B48
Number of positions	12
Connection profile	6+6+PE
Contact numbering	1 - 6 (power contacts) 1 - 6 (control contacts)
No. of power contacts	6
No. of control contacts	6

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	34 mm
Height	52.2 mm
Length	111 mm
Drill hole distance, horizontal	104 mm
Drill hole distance, vertical	27 mm

### Connection data

#### Connection technology

Connection technology	Axial screw connection (power contacts) Screw connection (control contacts)
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## Conductor connection

Conductor cross section	16 mm <sup>2</sup> ... 35 mm <sup>2</sup> (power contacts)
	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (control contacts)
Connection cross section AWG	5 ... 2 (power contacts)
	24 ... 13 (control contacts)
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	6 Nm (Power contacts for 16 mm <sup>2</sup> )
	7 Nm (Power contacts for 25 mm <sup>2</sup> )
	0.8 Nm (control contacts)
Stripping length of the individual wire	8 Nm (Power contacts for 35 mm <sup>2</sup> )
	13 mm ±1 mm (Power)
	7.5 mm (Signal)

## Electrical properties

Rated voltage (III/3)	690 V (power contacts)
	400 V (control contacts)
Rated surge voltage	8 kV (power contacts)
	6 kV (control contacts)
Rated current	100 A (power contacts)
	16 A (control contacts)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 500
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## Material specifications

Flammability rating according to UL 94	V0
Contact material	Cu alloy
Contact carrier material	PC
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag

## Environmental and real-life conditions

### Ambient conditions

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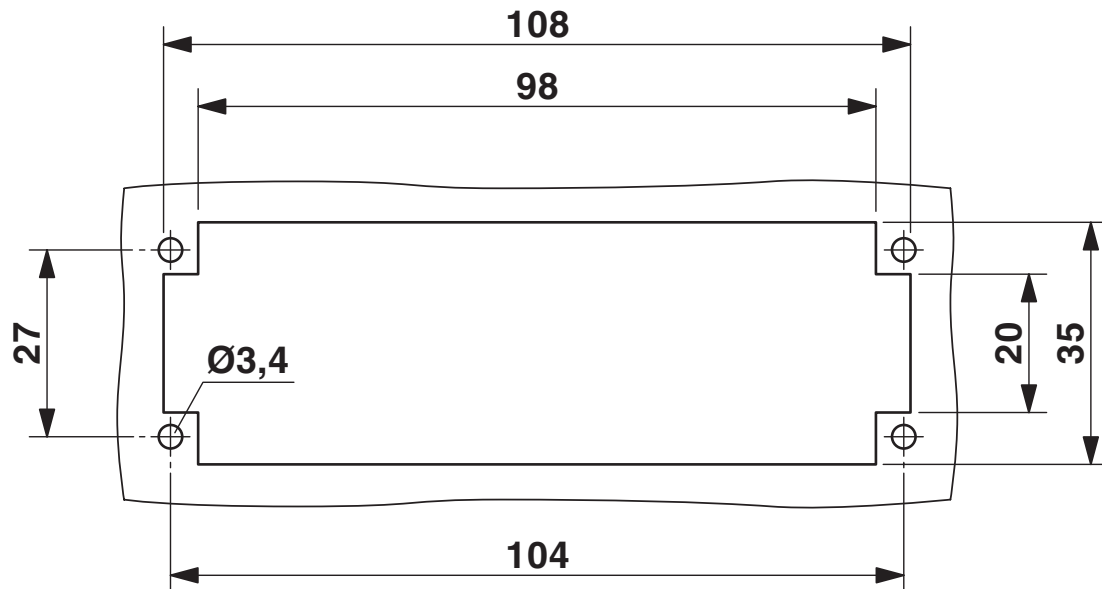
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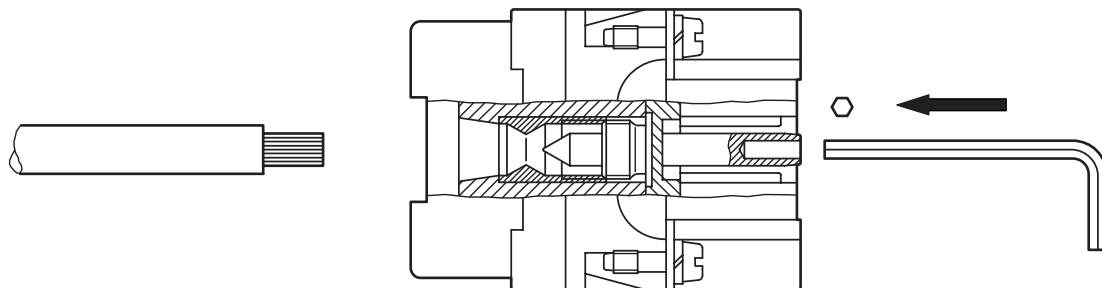
## Drawings

Dimensional drawing



Mounting cutout when used without housing

Schematic diagram

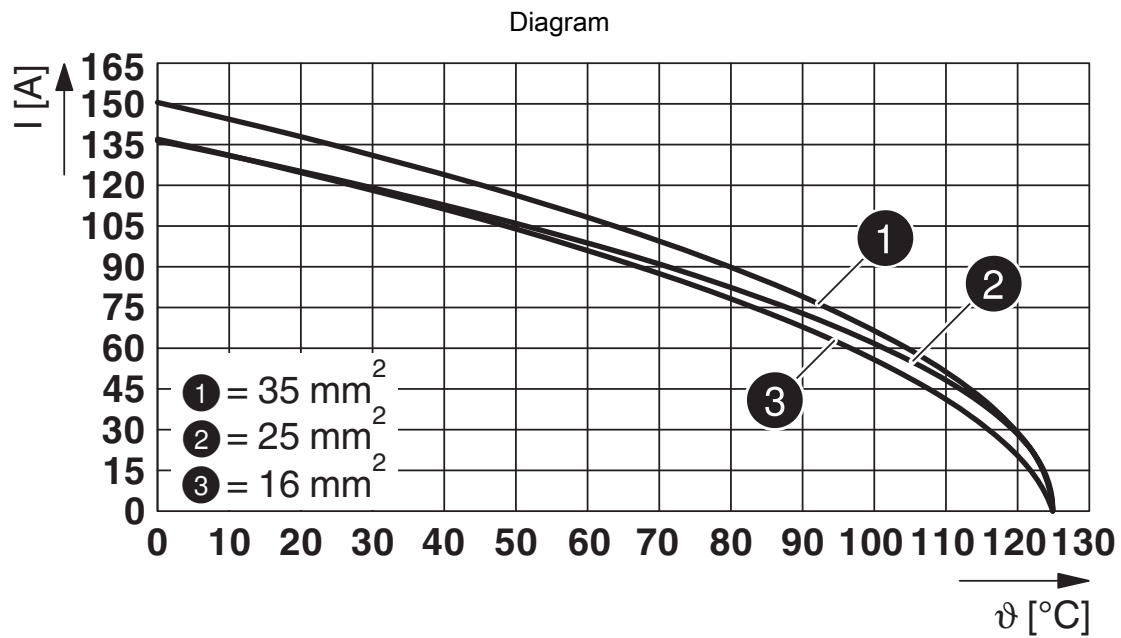


Axial connection

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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/1636402>

<div> <b>UL Recognized</b> Approval ID: E118976</div>				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
Power	600 V	100 A	- 2	-
Control	600 V	16 A	14	-

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## Classifications

### ECLASS

ECLASS-15.0	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

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%

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