HC-K 6/ 6 ESTS - Contact insert

1636392

https://www.phoenixcontact.com/us/products/1636392

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

Your advantages

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

Commercial data

Item number	1636392
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABA
GTIN	4046356180313
Weight per piece (including packing)	284.2 g
Weight per piece (excluding packing)	284.2 g
Customs tariff number	85366990
Country of origin	DE

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

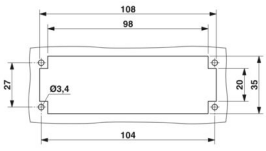
Product properties

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	47.8 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)

Conductor connection

Conductor cross-section	16 mm² ... 35 mm² (power contacts)
	0.2 mm² ... 2.5 mm² (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 mm²)
	7 Nm (Power contacts for 25 mm²)
	0.8 Nm (control contacts)
	8 Nm (Power contacts for 35 mm²)
Stripping length of the individual wire	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

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

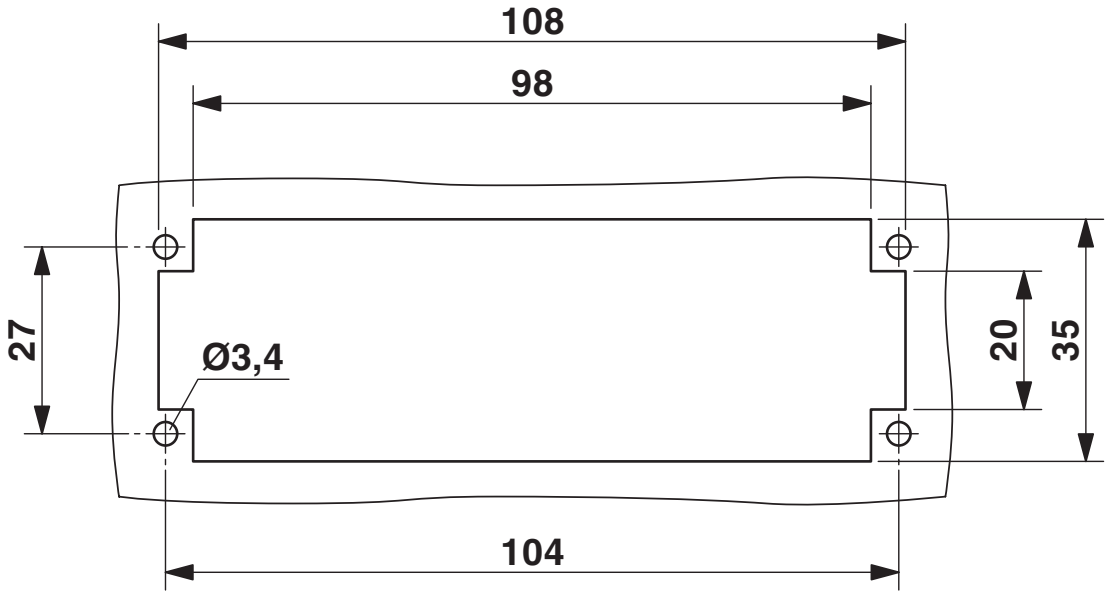
Environmental and real-life conditions

Ambient conditions

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

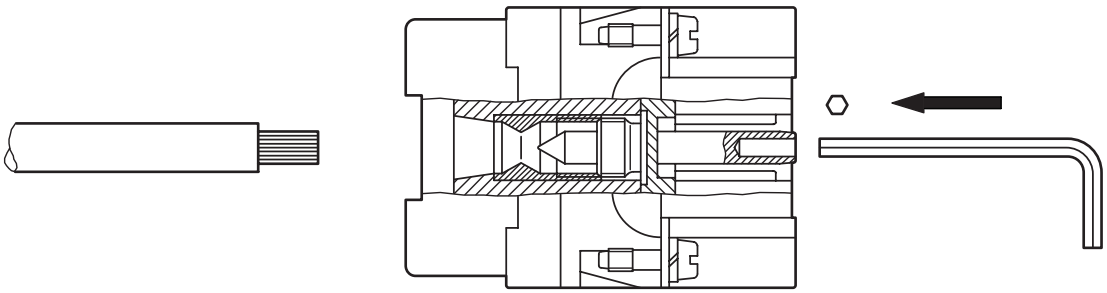
Drawings

Dimensional drawing



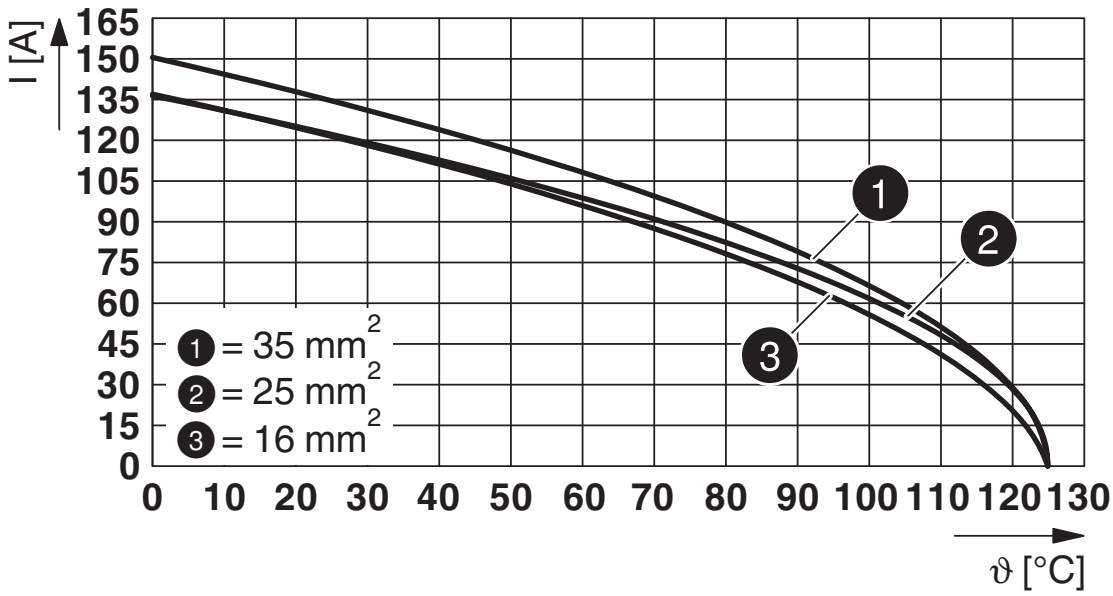
Mounting cutout when used without housing

Schematic diagram



Axial connection

Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1636392

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	100 A	- 2	-
Control	600 V	16 A	14	-

Classifications

ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

ETIM

ETIM 10.0	EC000438

UNSPSC

UNSPSC 21.0	39121500

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%

EF3.1 Climate Change

CO2e kg	13.2 kg CO2e

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