

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 mm² ... 35 mm²

Commercial data

Item number	1636402
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABA
Catalog page	Page 567 (C-2-2019)
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 instructions	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
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 ² ... 35 mm ² (power contacts)
	0.2 mm ² ... 2.5 mm ² (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 ²)
	7 Nm (Power contacts for 25 mm ²)
	0.8 Nm (control contacts)
Stripping length of the individual wire	8 Nm (Power contacts for 35 mm ²)
	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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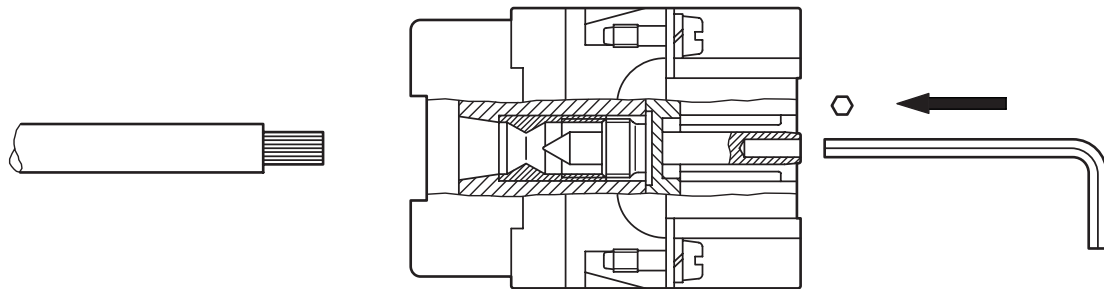
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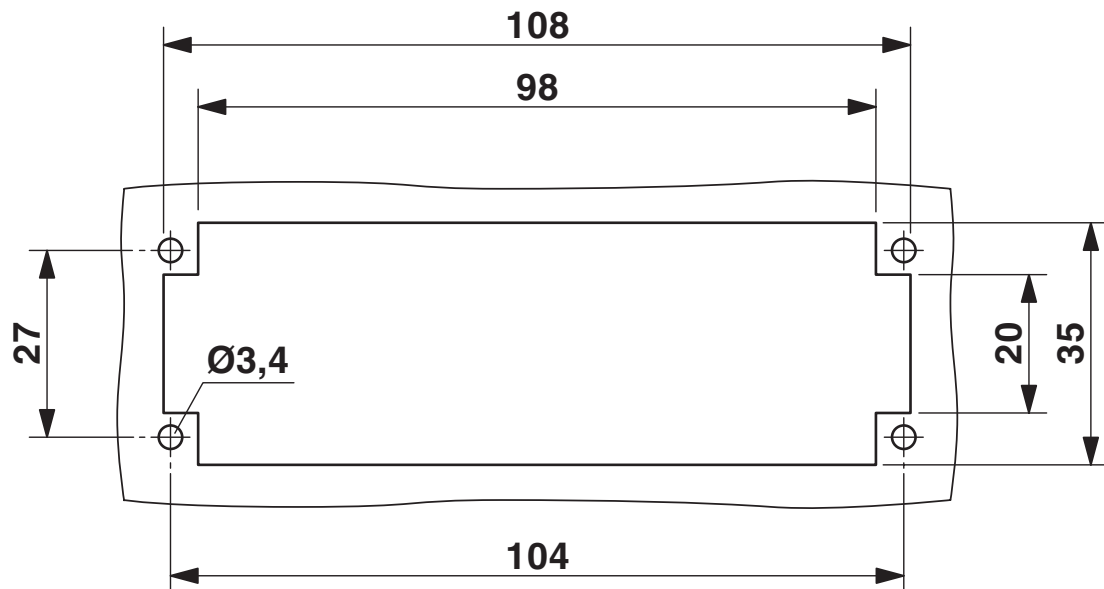
Drawings

Schematic diagram



Axial connection

Dimensional drawing



Mounting cutout when used without housing

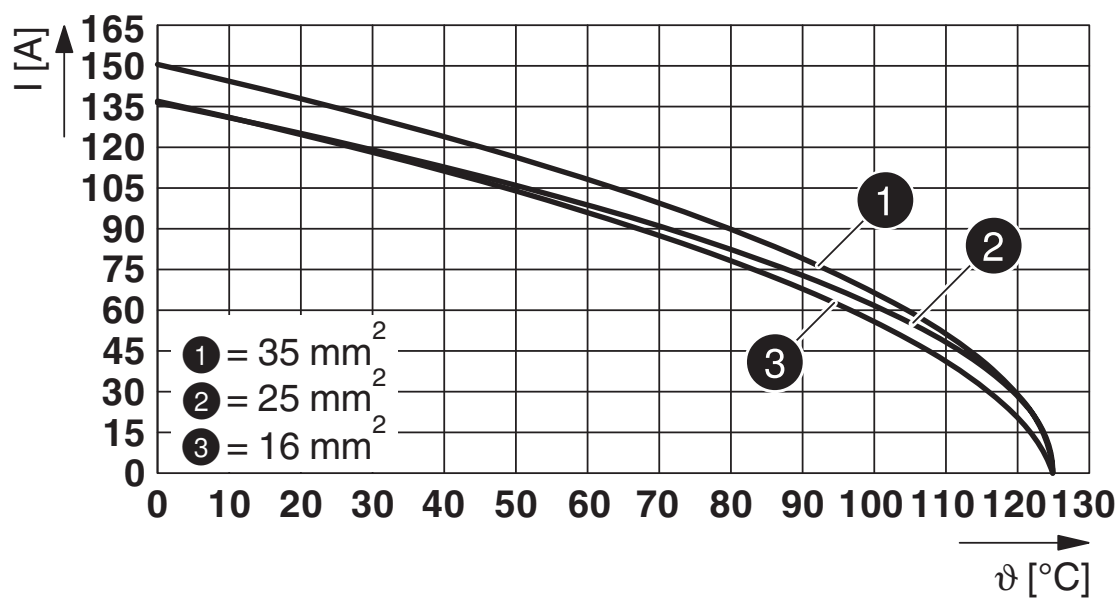
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Diagram



Derating diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1636402>

 UL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	100 A	- 2	-
Control	600 V	16 A	14	-

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

ECLASS

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

ETIM

ETIM 8.0	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
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	30e583c7-87be-42a3-a1e0-3c0f23edb069

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Accessories

HC-CB - Coding bolt

1772722

<https://www.phoenixcontact.com/us/products/1772722>



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

HC-CST - Coding element

1676857

<https://www.phoenixcontact.com/us/products/1676857>



Coding peg for coding up to 16 connectors

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HC-CBU - Coding element

1676860

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Coding socket for coding up to 16 connectors

HC-K 6/ 6 ESTS - Contact insert

1636392

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SF-THEX 2-100 - Screwdriver

1212637

<https://www.phoenixcontact.com/us/products/1212637>



T-handle screwdriver, for Allen screws, hexagonal (with chamfer), size: hex 2 x 100 mm, ergonomically shaped handle, matt chrome-plated

SF-SL 0,6X3,5-100 S-VDE - Screwdriver

1212587

<https://www.phoenixcontact.com/us/products/1212587>



Actuation tool, for ST terminal blocks, VDE insulated, with slimmer insulation integrated in the blade, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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