

HC-K 4/2-ESTS - Contact insert

1686889

<https://www.phoenixcontact.com/us/products/1686889>



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Contact insert, number of positions: 4+2+PE, size: B16, power contacts: 4, control contacts: 2, Pin, Screw connection, 830 V, 80 A, 1.5 mm² ... 16 mm²

Commercial data

Item number	1686889
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABA
Catalog page	Page 565 (C-2-2019)
GTIN	4017918924119
Weight per piece (including packing)	122.2 g
Weight per piece (excluding packing)	122.2 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Notes

General	For housing HC-B16
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
	Use wire end protection (screw connections do not have wire protection)

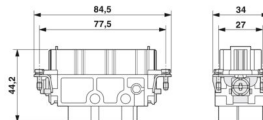
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-K
Type	B16
	B32
Number of positions	6
Connection profile	4+2+PE
Contact numbering	1 - 4 (power contacts)
	1 - 2 (control contacts)
No. of power contacts	4
No. of control contacts	2
Contact material type	turned
Screwdriver blade	0.8 x 4.5 mm (power contacts)

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	42 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm

Connection data

Connection technology

Connection technology	Screw connection (power contacts)
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	Screw connection (control contacts)
Conductor connection	
Conductor cross section	1.5 mm ² ... 16 mm ² (power contacts)
	0.5 mm ² ... 2.5 mm ² (control contacts)
Connection cross section AWG	16 ... 6 (power contacts)
	20 ... 14 (control contacts)
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection cross-section with cable lug expandable to 16 mm ²)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	3 Nm (Power contacts for cross sections of 2.5 mm ² ... 16 mm ² ; (2 Nm for cross section 2.5 mm ²))
	0.5 Nm (control contacts)
	1.2 Nm (Power contacts for cross section 1.5 mm ²)
Stripping length of the individual wire	14 mm (Power)
	7.5 mm (Signal)

Electrical properties

Rated voltage (III/3)	830 V (power contacts)
	400 V (control contacts)
Rated surge voltage	8 kV (power contacts)
	6 kV (control contacts)
Rated current	80 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
Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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Standards and regulations

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Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

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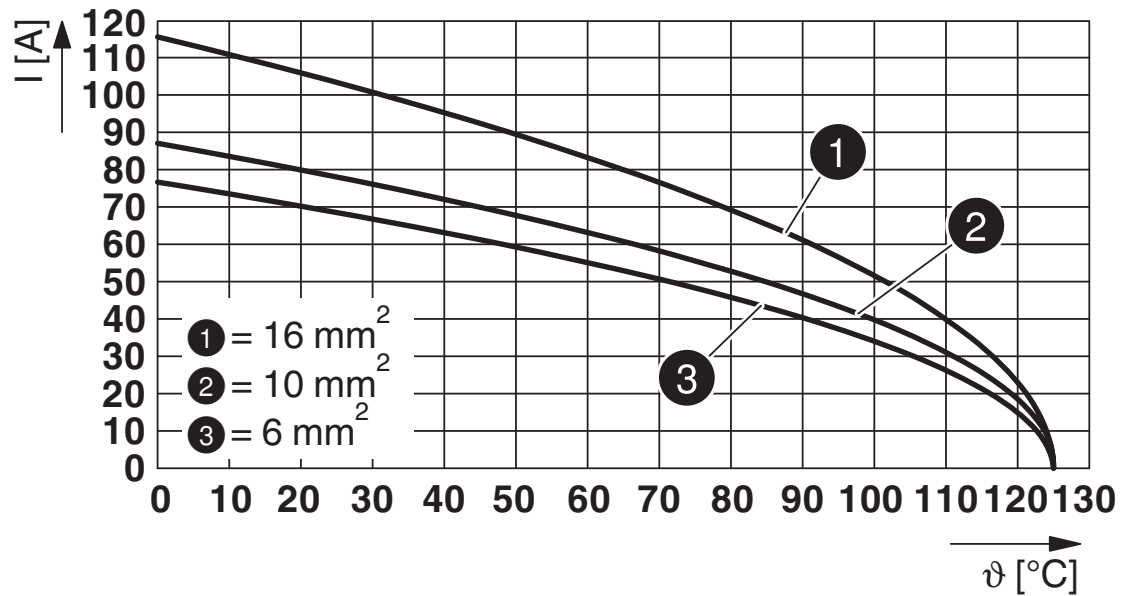
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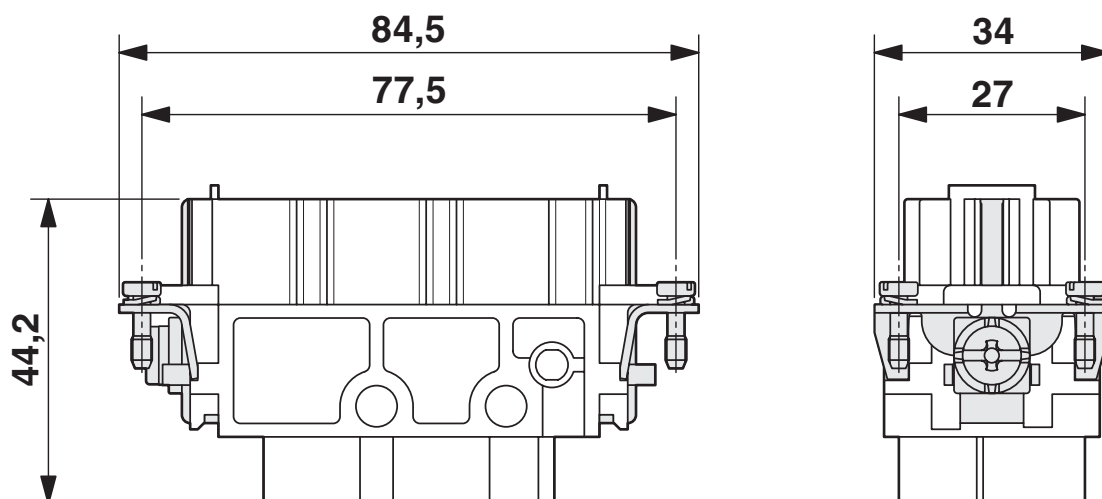
Drawings

Diagram



Derating diagram

Dimensional drawing



Male insert

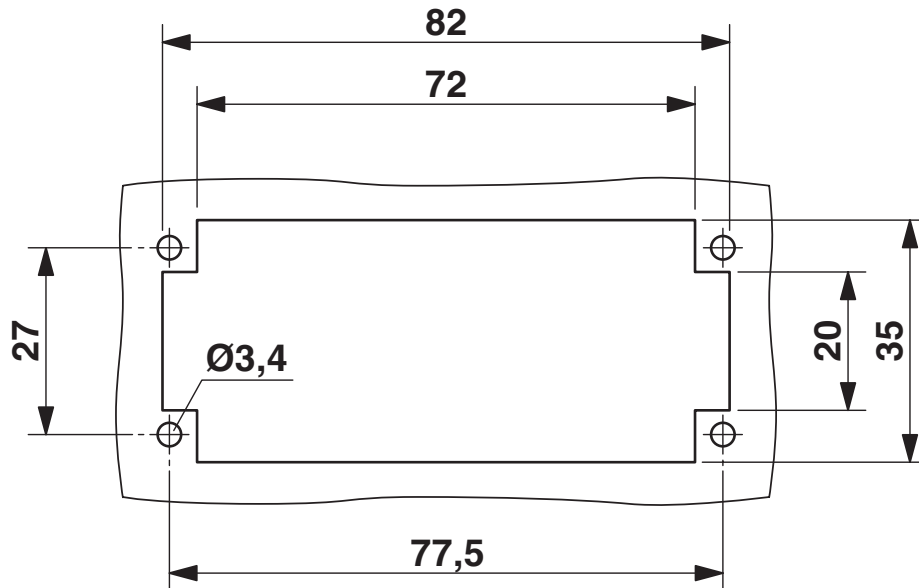
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Dimensional drawing



Mounting cutout when used without housing

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1686889>

<div> UL Recognized Approval ID: E118976</div>				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	80 A	- 6	-
Control	600 V	16 A	14	-

<div> EAC Approval ID: RU C-DE.BL08.B.00511</div>				
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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-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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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

<https://www.phoenixcontact.com/us/products/1676860>



Coding socket for coding up to 16 connectors

C-RC 16/M5 DIN - Ring cable lug

3240094

<https://www.phoenixcontact.com/us/products/3240094>



Ring cable lug, non-insulated, 16 mm², M5

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HC-K 4/2-EBUS - Contact insert

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SZF 2-0,8X4,0 - Screwdriver

1204520

<https://www.phoenixcontact.com/us/products/1204520>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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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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