

https://www.phoenixcontact.com/us/products/1686876



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Contact insert, number of positions: 4+2+PE, size: B16, power contacts: 4, control contacts: 2, Socket, Screw connection, 830 V, 80 A, 1.5 mm<sup>2</sup> ... 16 mm<sup>2</sup>, application: Power/signal

### Your advantages

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

#### Commercial data

Item number	1686876
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABA
GTIN	4017918924126
Weight per piece (including packing)	120.7 g
Weight per piece (excluding packing)	120.7 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 note	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
Application	Power/signal
Туре	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)
nsulation characteristics	
Overvoltage category	III

### Degree of pollution

**Dimensions** 

Dimensional drawing	84.5 77.5 27 27
Width	34 mm
Height	44.2 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm

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#### Connection data

Connection technology



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Connection technology	Screw connection (power contacts)
	Screw connection (control contacts)
Conductor connection	
Conductor cross section	1.5 mm <sup>2</sup> 16 mm <sup>2</sup> (power contacts)
	0.5 mm <sup>2</sup> 2.5 mm <sup>2</sup> (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 mm²)
	0.5 Nm 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	3 Nm (Power contacts for cross sections of 2.5 mm² 16 mm²; (2 Nm for cross section 2.5 mm²))
	0.5 Nm (control contacts)
	1.2 Nm (Power contacts for cross section 1.5 mm²)
Stripping length of the individual wire	14 mm (Power)
	7.5 mm (Signal)
ectrical properties	
Rated voltage (III/3)	830 V (power contacts)
. talou to lage (iiio)	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)
chanical properties	
Insertion/withdrawal cycles	≥ 500
terial specifications	
Flammability rating according to UL 94	VO
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
	PC
vironmental and real-life conditions	
vironmental and real-life conditions	

### 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)

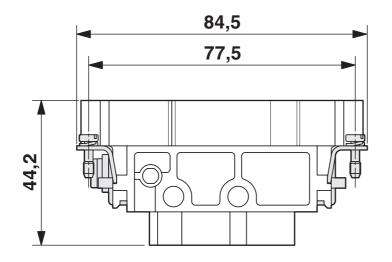
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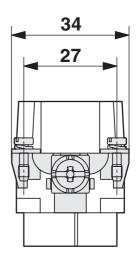
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### Drawings

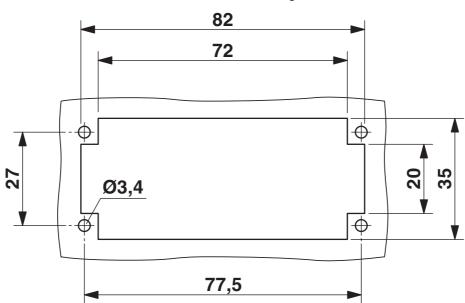
### Dimensional drawing





Female insert

### Dimensional drawing

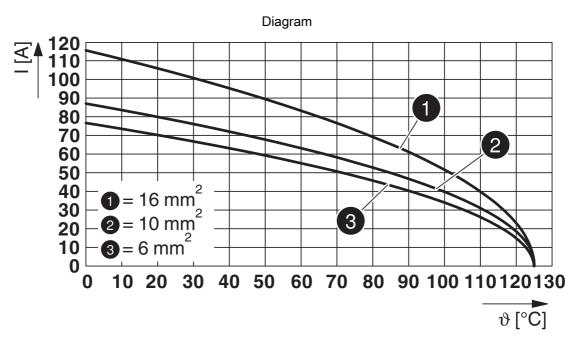


Mounting cutout when used without housing



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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/1686876

SU UL Reco	<b>ognized</b> D: E118976			
	Nominal voltage $\mathbf{U}_{\mathbf{N}}$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
Power	600 V	80 A	- 6	-
Control	600 V	16 A	14	-



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### Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-13.0	27440205		
	ECLASS-15.0	27440205		
ET	ETIM			
	ETIM 9.0	EC000438		
UN	ISPSC			

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: n/a)
SCIP	f11dfc2c-aa3a-4d2e-88a3-573516fa2157

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