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 mm² ... 16 mm²

Commercial data

Item number	1686876
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABA
Catalog page	Page 565 (C-2-2019)
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.
loupting	

Mounting

sembly 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

Contact insert with a fixed no. of positions	
НС-К	
B16	
B32	
6	
4+2+PE	
1 - 4 (power contacts)	
1 - 2 (control contacts)	
4	
2	
turned	
0.8 x 4.5 mm (power contacts)	
3	

Dimensions

Dimensional drawing	84.5 77.5 27 27 27 27 27 27 27 27 27 27 27 27 27
Width	34 mm
Height	44.2 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)
onductor 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
Material 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: 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

Environmental and real-life conditions

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

DIN EN 45545-2 (Risk level HL1 - HL3)

Standards and regulations

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Testing

Standards/regulations

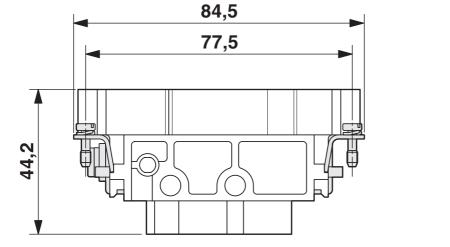
PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)

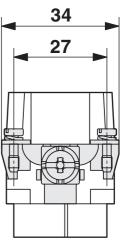
PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

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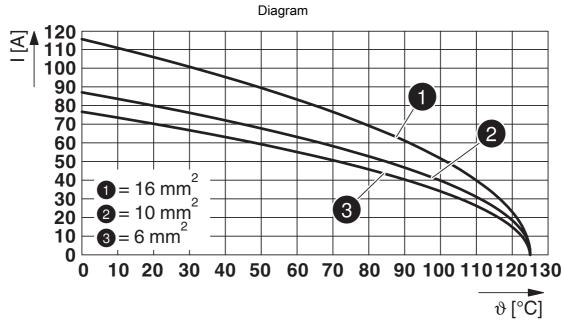
Drawings





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Female insert



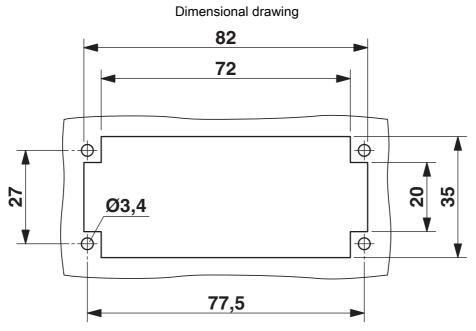
Derating diagram

Dimensional drawing



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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/1686876

Approval ID: E118976				
	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	-

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	
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-ESTS - Contact insert

1686889

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



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 $\rm mm^2$... 16 $\rm mm^2$

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: $0.6 \times 3.5 \times 100 \text{ mm}$, 2-component grip, with non-slip grip

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