

# Contact insert - HC-K 6/0-EBUS - 1580537

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Socket contact insert with screw connection, number of positions 6 + PE, for HEAVYCON housing designs B16 and B32, incl. 1 x PE connection for 16 mm<sup>2</sup>



COMPLETE

## Key Commercial Data

Packing unit	10 pc
GTIN	
GTIN	4046356463331

## Technical data

### General

Note	For HEAVYCON ADVANCE and HEAVYCON housing type B16/B32; screw head shape of connection screws: Allen screws, wrench size 3 mm.
	Connectors may be operated only when there is no load/voltage.
Connection method	Screw connection (Without wire protection)
Tightening torque	1.8 Nm
Degree of pollution	3
Overvoltage category	III
Number of positions	6+PE
No. of power contacts	6
No. of control contacts	0
Insertion/withdrawal cycles	≥ 500
Size	B16
Contact numbering	1 - 6
Conductor cross section	6 mm <sup>2</sup> ... 16 mm <sup>2</sup> (without ferrule)
	2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> (with ferrule)
Connection cross section AWG	10 ... 6
Stripping length of the individual wire	15 mm

# Contact insert - HC-K 6/0-EBUS - 1580537

## Technical data

### General

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
Connection	For housing type B16.

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)
---------------------------------	--

### Material data

Contact material	Copper alloy
Contact surface material	Ag
Material of contact surface, power contact	Ag
Contact carrier material	PA
Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22 and R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PA: Fire protection in rail vehicles - requirement set R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

### Electrical characteristics

Rated voltage (III/3)	1000 V
Rated surge voltage	8 kV
	8 kV
Rated current	80 A

### Standards and Regulations

Constructional and testing regulations	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
Flammability rating according to UL 94	V0

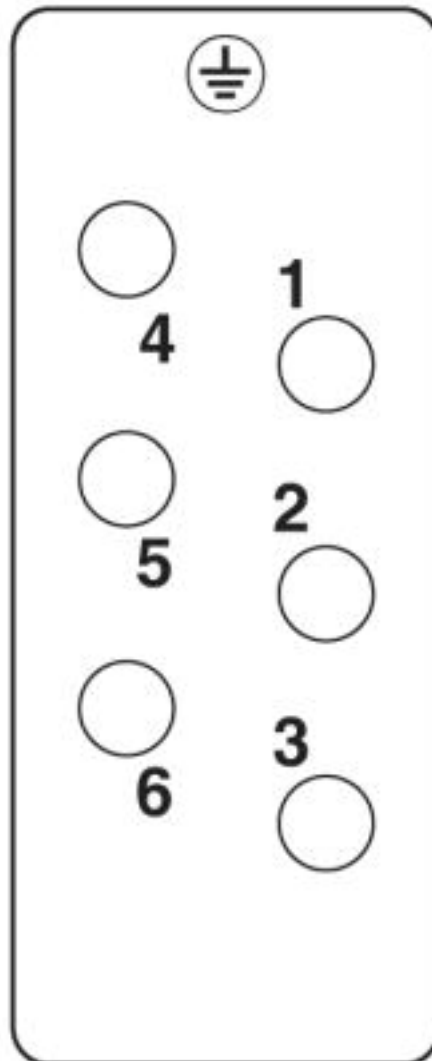
### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

## Contact insert - HC-K 6/0-EBUS - 1580537

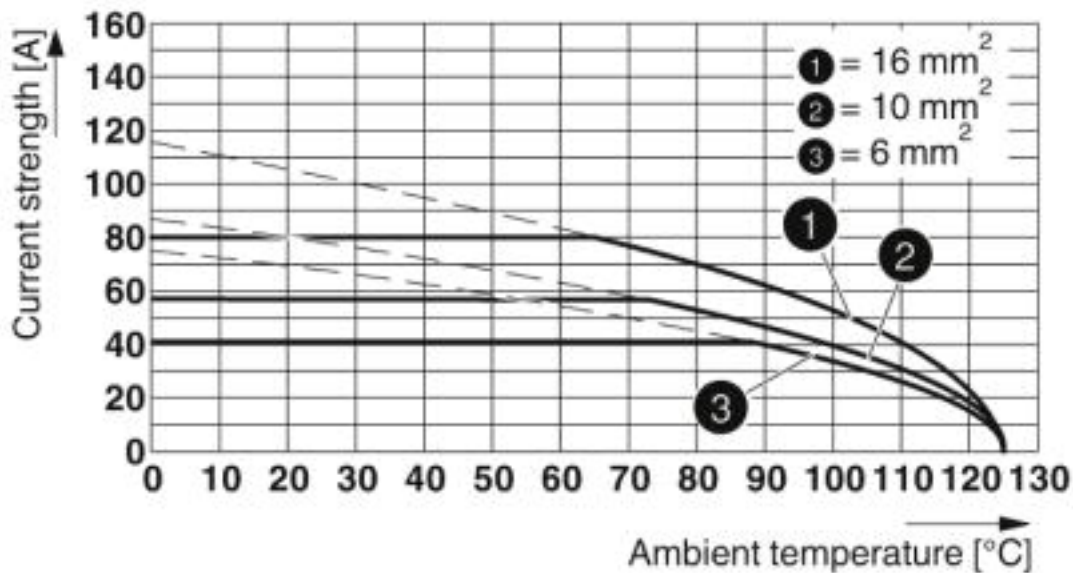
Schematic diagram



Connector pin assignment, connection side

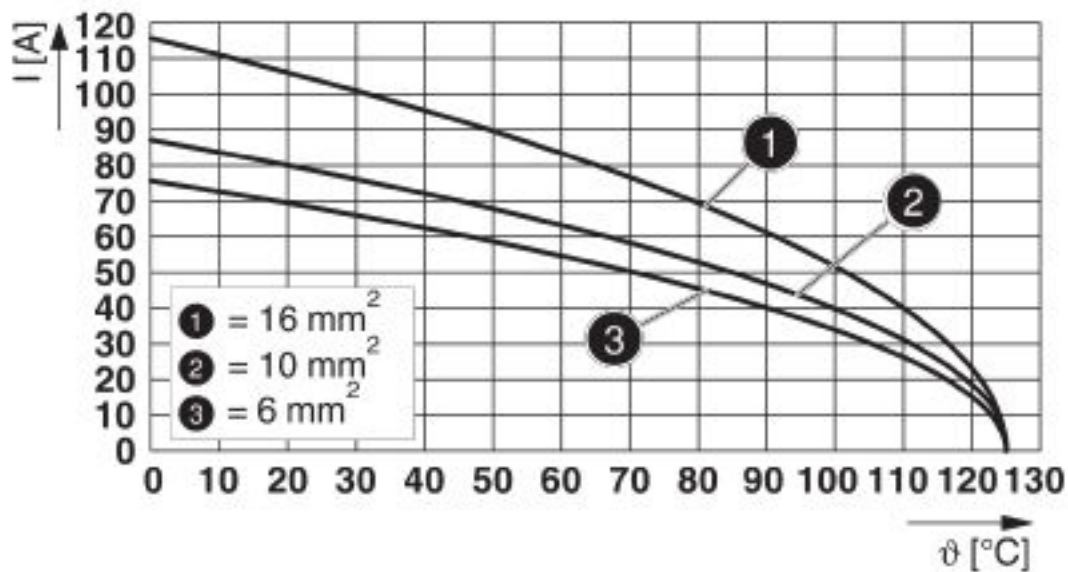
# Contact insert - HC-K 6/0-EBUS - 1580537

Diagram



Derating diagram

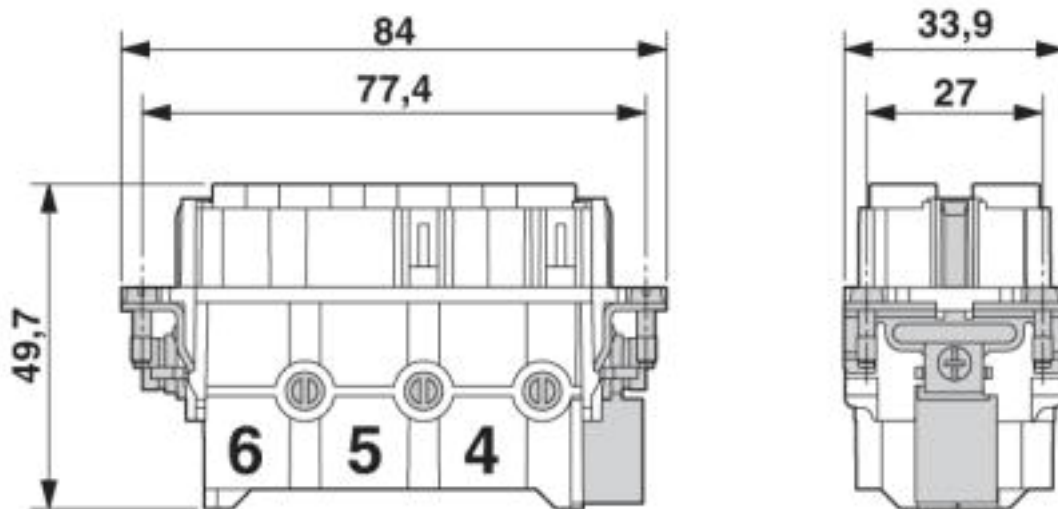
Diagram



Derating diagram

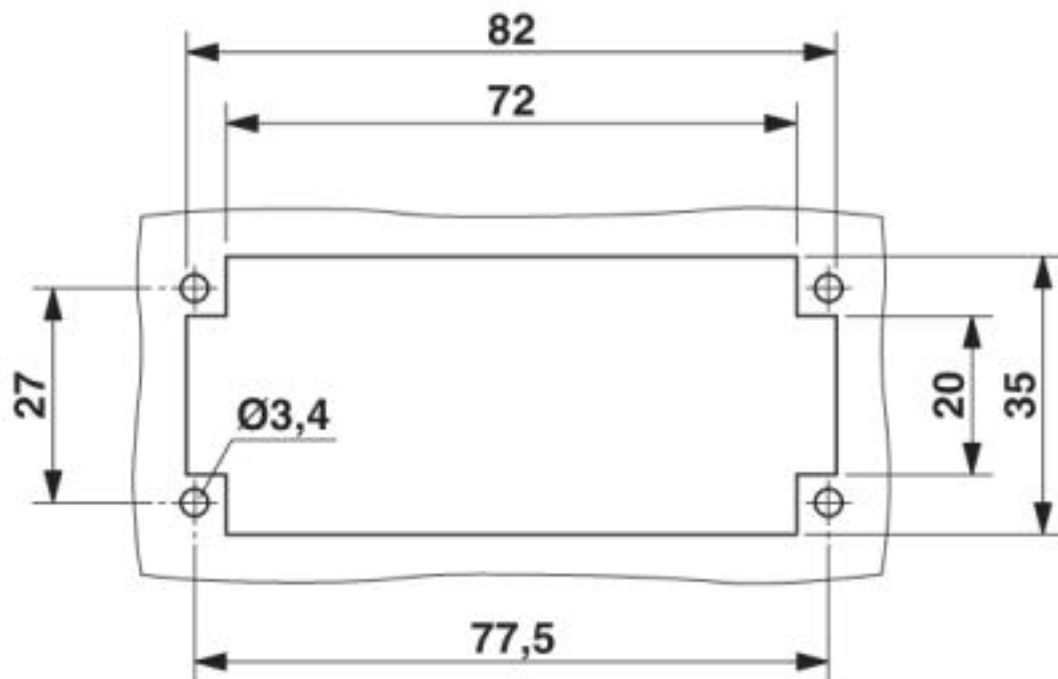
# Contact insert - HC-K 6/0-EBUS - 1580537

Dimensional drawing



Dimensional drawing

Dimensional drawing



Mounting cutout when used without housing

Approvals

Approvals

# Contact insert - HC-K 6/0-EBUS - 1580537

## Approvals

Approvals

CSA / UL Recognized / EAC / DNV GL

Ex Approvals

### Approval details

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	013631_0_000
Nominal voltage UN		600 V	
Nominal current IN		60 A	
mm <sup>2</sup> /AWG/kcmil		10-6	

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
Nominal voltage UN		600 V	
Nominal current IN		80 A	
mm <sup>2</sup> /AWG/kcmil		6	

EAC			RU C- DE.AI30.B.01102
-----	--	--	--------------------------

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE000037S
--------	--	---	------------

Phoenix Contact 2019 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>