

Contact insert - HC-K 4/0-EBUS - 1679427

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HEAVYCON socket insert, K4/0 series, 4-pos., screw connection without wire protection

RoHS

COMPLETE RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 168865
GTIN	4017918168865
Weight per Piece (excluding packing)	116.100 g
Custom tariff number	85366990
Country of origin	China

Technical data

General

Note	For HEAVYCON-ADVANCE housings of B16 type and HEAVYCON housings of B16 and B32 types
	Connectors may be operated only when there is no load/voltage.
Connection method	Screw connection (power contacts)
Tightening torque	3 Nm (4.0 mm ² ... 16 mm ²)
	2 Nm (2.5 mm ²)
	1.2 Nm (1.5 mm ²)
Torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Screwdriver blade	0.8 x 4.5 mm (power contacts)
Degree of pollution	3

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Technical data

General

Overvoltage category	III
Number of positions	4+PE
No. of power contacts	4
No. of control contacts	0
Insertion/withdrawal cycles	≥ 500
Size	B16
	B32
Contact numbering	1 - 4
Conductor cross section	1.5 mm ² ... 16 mm ²
Connection cross section AWG	16 ... 6
Stripping length of the individual wire	14 mm
Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
Connection	Use wire end protection (screw connections do not have wire protection)

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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Material data

Contact material	Cu alloy
Contact surface material	Ag
Material of contact surface, power contact	Ag
Contact carrier material	PC

Electrical characteristics

Rated voltage (III/3)	830 V (power contacts)
Rated surge voltage	8 kV (power contacts)
Rated current	80 A (power contacts)

Standards and Regulations

Connection in acc. with standard	CSA
Flammability rating according to UL 94	V0

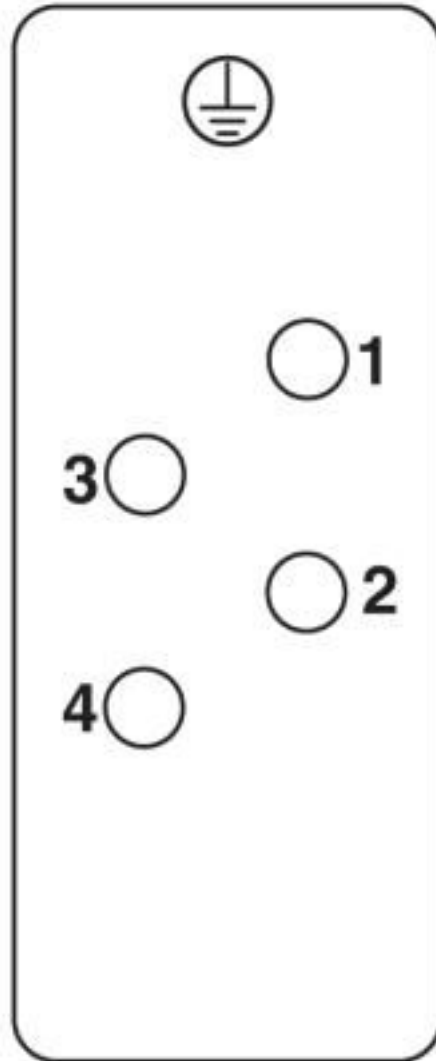
Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

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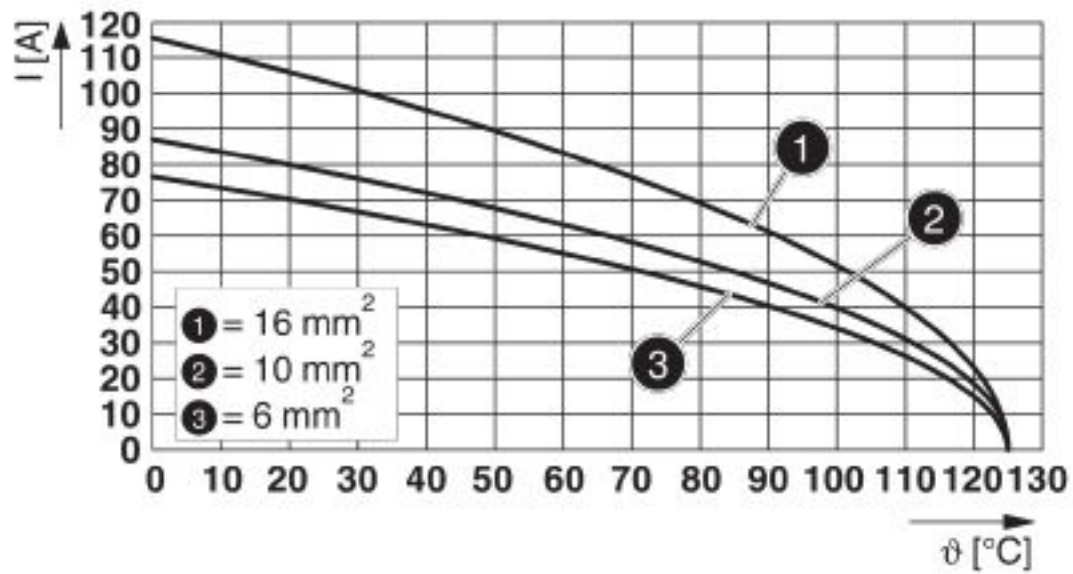
Schematic diagram



Connector pin assignment, connection side

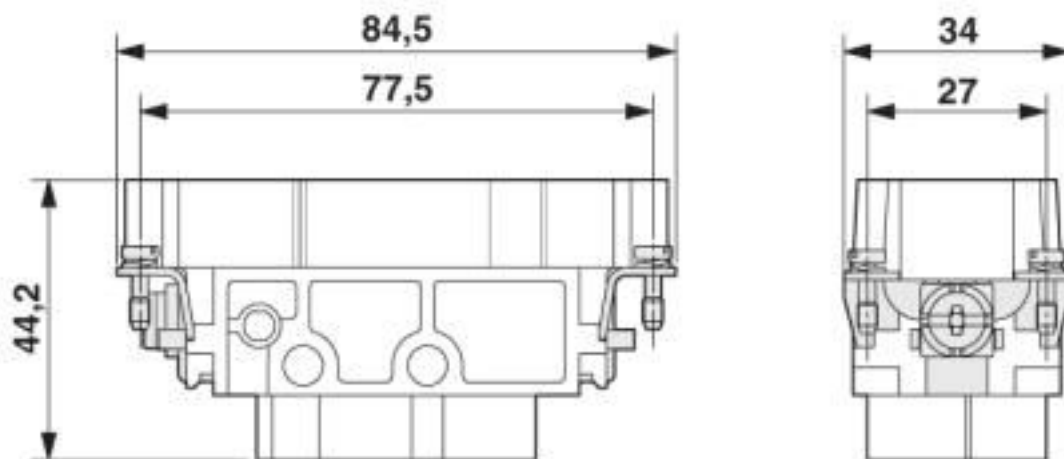
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Diagram



Derating diagram

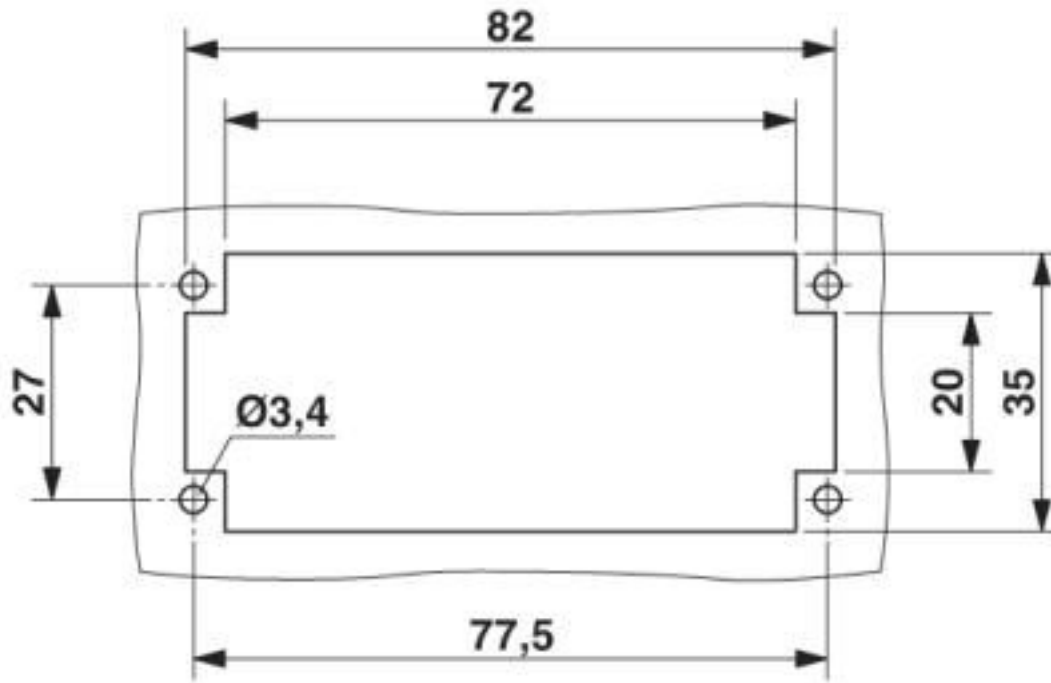
Dimensional drawing



Female insert

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Dimensional drawing



Mounting cutout when used without housing

Classifications

eCl@ss

eCl@ss 10.0.1	27440205
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27261200
eCl@ss 6.0	27261200
eCl@ss 7.0	27440205
eCl@ss 8.0	27440205
eCl@ss 9.0	27440205

ETIM

ETIM 2.0	EC000438
ETIM 3.0	EC000438
ETIM 4.0	EC000438
ETIM 5.0	EC000438

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Classifications

ETIM

ETIM 6.0	EC000438
ETIM 7.0	EC000438

UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

Approvals


Approvals


Approvals

EAC / EAC / UL Recognized

Ex Approvals


Approval details

EAC		RU C- DE.AI30.B.01102
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EAC		RU C- DE.BL08.B.00511
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Approvals

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E118976
Nominal voltage UN		600 V	
Nominal current IN		80 A	
mm²/AWG/kcmil		6	

Accessories

Accessories

Screwdriver tools

Screwdriver - SZF 2-0,8X4,0 - 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

Additional products

Contact insert - HC-K 4/0-ESTS - 1679414



HEAVYCON plug insert, K4/0 series, 4-pos., screw connection without wire protection