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Extract from the online
catalog

HC-K 6/12-ESTS

Order No.: 1636350



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1636350>

HEAVYCON male insert, K6/12 series, with 6 power (axial screw connection) and 12 control contacts (screw connection)

Commercial data

GTIN (EAN)	4 046356 011495
sales group	D007
Pack	1 pcs.
Customs tariff	85366990
Catalog page information	Page 446 (PC-2009)

Product notes

WEEE/RoHS-compliant since:
01/01/2008



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

General data

Note	For HEAVYCON-ADVANCE and HEAVYCON housing of B16 type, axial connection for 2 mm Allen wrench
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Connection method	Axial screw connection (power contacts)
	Screw connection (control contacts)
Tightening torque	1.5 Nm (Power contacts 2.5 - 4 mm ²)
	0.8 Nm (control contacts)
	2 Nm (Power contacts 6 - 8 mm ²)
Ambient temperature (operation)	-40 °C ... 125 °C
Pollution degree	3
Surge voltage category	III
Insertion/withdrawal cycles	≥ 500
Design	B16
Conductor cross-section	2.5 mm ² ... 8 mm ²
	0.2 mm ² ... 2.5 mm ²
Connection cross-section AWG	12 ... 10
	24 ... 14 (control contacts)
Stripping length of the individual wire	5 mm +1 (2.5 mm ² ... 4 mm ²)
	10 mm
	Power 2 8 mm +1 (6 - 8 mm ²)
Wire diameter including insulation	6.1 mm (Max., power contacts)
Assembly instructions	-The axial screw connection must be established using a 2 mm Allen wrench.-Use only stranded wires for axial screw connection.-Plug-in connections may only be operated only when there is no load/voltage.
Connection	Note regarding axial connection technology: Only for stranded wires. The conductor cross-sections stated refer to the geometric cross-section of the cable used. Use of cables with a geometric cross-section very different from that of the cable's nominal cross-section should be checked before use. The wiring space of the axial screw method is designed for fine strand cables according to VDE 0295 class 5. Deviating cable structures (e.g. class 6 cables) should be checked before use. Connection Before starting to connect, ensure that the tapered screw is turned back all the way (chamber is open). The cables must not be twisted. The cores should be slid to the limit stop in the contact chamber (until insulation touches contact). Hold cores in position and use socket wrench to tighten. The used core end should be cut off before connecting again. The connection screw may only be retightened once to prevent the strands from breaking. To prevent damage to the contact, the core / cable should be mechanically intercepted at an appropriate distance from the connection point (e.g. by using a plate cutout). DIN VDE 0100-520:2003-06 contains information on how to do this correctly.

Material data

Inflammability class acc. to UL 94	V0
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Contact material	Cu alloy
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag
Contact carrier material	PC

Electrical characteristics

Rated voltage (III/3)	690 V (power contacts)
	230 V (control contacts)
	Signal 400 V (Conductor-Conductor)
Rated surge voltage	8 kV (power contacts)
	4 kV (control contacts)
Rated current	40 A (power contacts)
	10 A (control contacts)

Certificates / Approvals

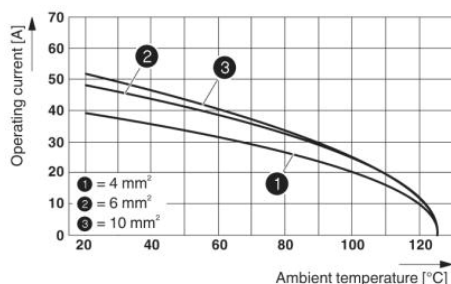


Certification

CSA, UL

Diagrams/Drawings

Diagram

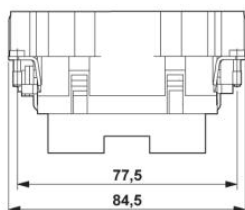


Derating curve

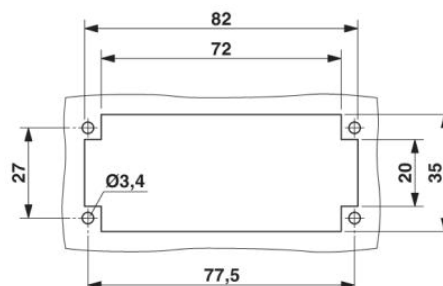
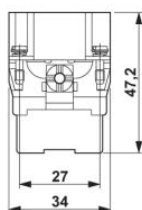
HC-K 6/12-ESTS Order No.: 1636350

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Dimensioned drawing

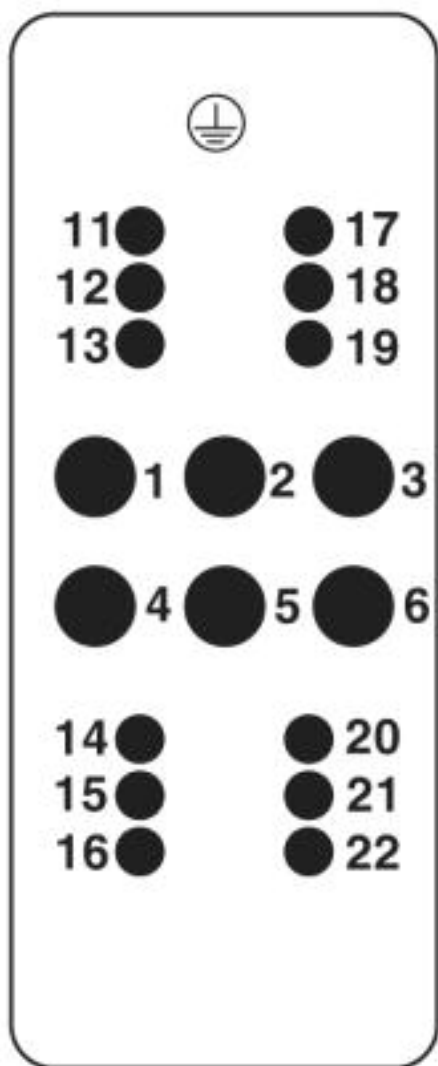


Male insert

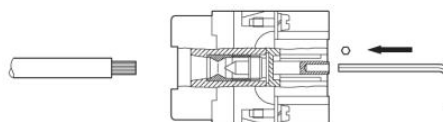


Panel cutout

Schematic diagram



Connector pin assignment



Axial connection

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