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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



HC-K 6/12-EBUS


Order No.: 1636363



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1636363>

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

Commercial data

| | |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN) |  4 046356 011501 |
| sales group | D007 |
| Pack | 1 pcs. |
| Customs tariff | 85366990 |
| Catalog page information | Page 446 (PC-2009) |

Product notes

WEEE/RoHS-compliant since:
06/01/2008



<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 |
|------|-----------------------------------------------------------------------------------------------|

| | |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection method | Axial screw connection (power contacts) |
| | Screw connection (control contacts) |
| Tightening torque | 1.5 Nm (2.5 - 4 mm ²) |
| | 2 Nm (6 - 8 mm ²) |
| | 0.8 Nm (control contacts) |
| 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 - 4 mm ²) |
| | 10 mm |
| | 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 |

| | |
|----------------------------------------------|----------|
| 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 (Conductor-PE) |
| | 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



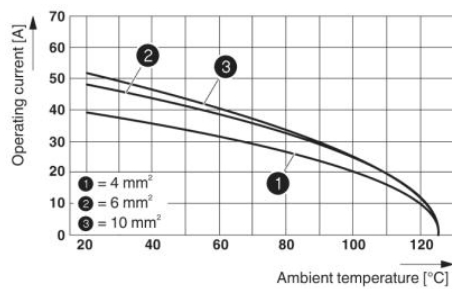
Certification

CSA, UL

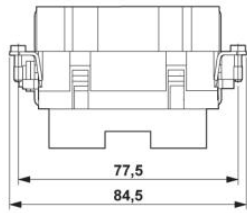
Diagrams/Drawings

Diagram

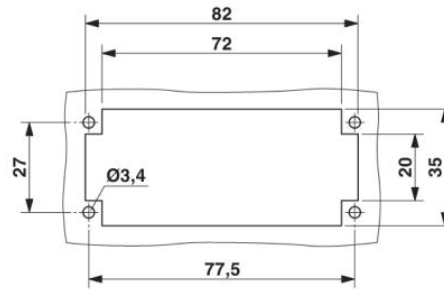
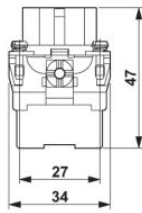
Derating curve



Dimensioned drawing

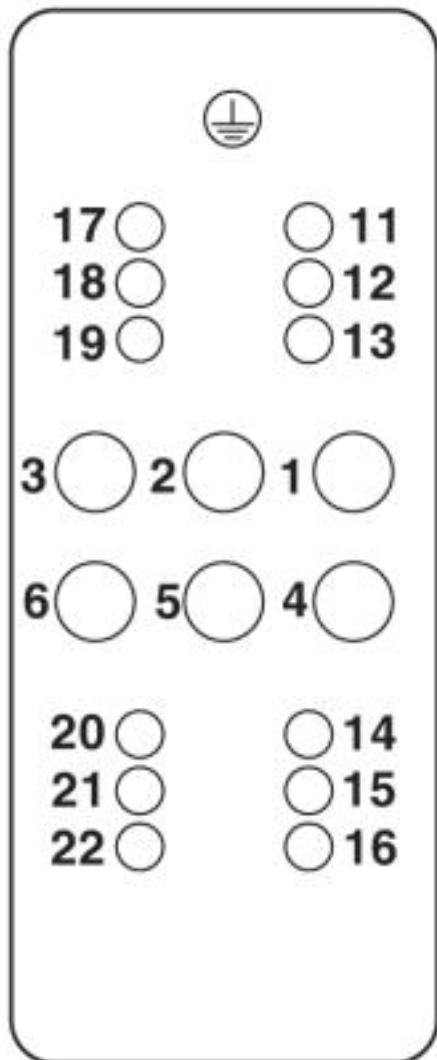


Female insert

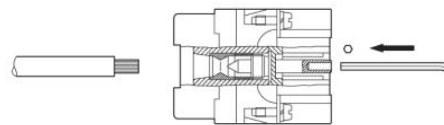


Panel cutout

Schematic diagram



Connector pin assignment



Axial connection

Address

PHOENIX CONTACT Deutschland GmbH
Flachmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 12000
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



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