

## Contact insert - HC-Q02-I-CT-M - 1419893


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Contact insert, Size: D7, Number of positions: 2+PE, Pin, Crimp connection, 400 V, 40 A, 1.5 mm<sup>2</sup> ... 6 mm<sup>2</sup>, Application: Power



### Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 2 STK   |
| Minimum order quantity | 2 STK   |
| GTIN                   | <br>4 055626 256139 |
| GTIN                   | 4055626256139   |

### Technical data

#### General

|   |   |
|---|---|
| Note                                    | For HC-D7 housing, crimp contacts CK 4,0. Crimp contacts not included in scope of supply.   |
| Connection method                       | Crimp connection  |
| Degree of pollution                     | 3   |
| Overvoltage category                    | III   |
| Number of positions                     | 2+PE  |
| Insertion/withdrawal cycles             | ≥ 500   |
| Size                                    | D7  |
| Conductor cross section                 | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Connection cross section AWG            | 16 ... 10   |
| Stripping length of the individual wire | 9 mm (1.5 ... 6.0 mm <sup>2</sup> )   |
|   | 11 mm (for 10 mm <sup>2</sup> )   |
| Assembly instructions                   | -The axial screw connection must be established using a 2 mm Allen wrench.<br>-Use only stranded wires for axial screw connection.<br>-Plug-in connections may only be operated only when there is no load/voltage. |
| Connection                              | Note regarding axial connection technology:   |

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## Technical data

### General

|  |   |
|--|---|
|  | <p>Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used.</p> <p>Use of cables with a geometric cross section very different from the cable's nominal cross section should be checked before use.</p> <p>The wiring space of the axial screw method is established for fine strand cables in accordance with VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) should be checked before use.</p> <p><b>Assembly instructions</b></p> <p>Before assembly, ensure that the tapered screw is turned back all the way (chamber is open). The cables must not be twisted.</p> <p>The wires should be inserted as far as they will go into the contact chamber (until the insulation touches the contact). Hold the wires in position and use the socket wrench to tighten. The used wire end should be cut off before connecting again. The connection screw may only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/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. When not using PE contacts: set the PE contact as far as possible in a clockwise direction.</p> |
|--|---|

### Ambient conditions

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

### Material data

|                          |              |
|--------------------------|--------------|
| Seal material            | NBR          |
| Contact material         | Copper alloy |
| Contact surface material | Ag           |
| Contact carrier material | PC           |

### Electrical characteristics

|                       |       |
|-----------------------|-------|
| Rated voltage (III/3) | 400 V |
| Rated surge voltage   | 6 kV  |
| Rated current         | 40 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 |
|  | IEC 60352                  |
| Flammability rating according to UL 94 | V0                         |

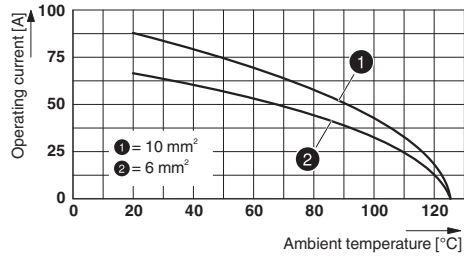
## Drawings

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Schematic diagram

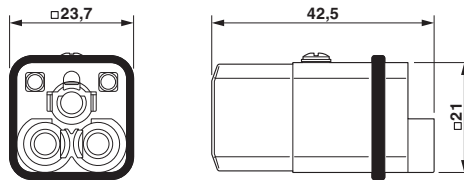


Diagram



Derating diagram: Series HC-HS2-D7-E...S

Dimensional drawing



Male insert

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

|     |  |               |
|-----|--|---------------|
| EAC |  | EAC-Zulassung |
|-----|--|---------------|

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