

## Contact insert module - HC-M-02-HS-70/16-MOD-ST - 1585702

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HEAVYCON contact insert module, pin, 2-pos. to 70 A, 16 mm<sup>2</sup> axial screw connection

### Product Features

- Plug module is shock proof



### Key commercial data

|                      |   |
|----------------------|---|
| Packing unit         | 1 PCE   |
| GTIN                 | <br>4 046356 308205 |
| Custom tariff number | 85389099  |
| Country of origin    | GERMANY   |

### Technical data

#### Electrical characteristics

|                                 |   |
|---------------------------------|---|
| Note                            | for housing HC-B6 to B48, for housing HC-ADVANCE-B6 to B24, hinged retaining frame HC-M-MHR... necessary, axial screw connection for 2.5 mm Allen wrench: |
| Rated voltage (III/3)           | 1000 V  |
| Rated current                   | 70 A  |
| Rated surge voltage             | 8 kV  |
| Ambient temperature (operation) | -40 °C ... 125 °C   |
| Number of positions             | 2   |

#### Mechanical characteristics

|   |  |
|---|--|
| Conductor cross section                 | 6 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Connection cross section AWG            | 8 ... 6                                  |
| Stripping length of the individual wire | 11 mm +1                                 |

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### Technical data

#### Mechanical characteristics

|                                    |                            |
|------------------------------------|----------------------------|
| Tightening torque                  | 2 Nm (6 mm <sup>2</sup> )  |
| Tightening torque                  | 3 Nm (10 mm <sup>2</sup> ) |
| Tightening torque                  | 4 Nm (16 mm <sup>2</sup> ) |
| Wire diameter including insulation | 8.9 mm                     |
| Hexagonal socket                   | SW2,5                      |
| Insertion/withdrawal cycles        | ≥ 500                      |

#### General characteristics

|   |  |
|---|--|
| Series                                  | HC-M-HS  |
| Number of module slots                  | 1  |
| Connection method                       | Axial screw connection   |
| Inflammability class according to UL 94 | V0   |
| Pollution degree                        | 3  |
| Surge voltage category                  | III  |
| Assembly instructions                   | Use 2.5 mm Allen wrenches for axial connection. Only for stranded wires. For housing heights $h \geq 52$ mm. Plug-in connections may only be operated only when there is no load/voltage.  |
| Connection                              | <p>Note regarding axial connection technology:<br/>                     Only for stranded wires. The conductor cross sections stated refer to the geometric cross section of the cable used.<br/>                     Use of cables with a geometric cross section very different from that of the cable's nominal cross section should be checked before use.<br/>                     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.</p> <p>Connection<br/>                     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.</p> |

#### Material data

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

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000438 |
| ETIM 4.0 | EC000438 |
| ETIM 5.0 | EC000438 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 11     | 43172601 |
| UNSPSC 12.01  | 39121408 |
| UNSPSC 13.2   | 39121408 |
| UNSPSC 6.01   | 43172601 |
| UNSPSC 7.0901 | 39121416 |

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27143424 |
| eCl@ss 5.1 | 27143424 |
| eCl@ss 6.0 | 27143424 |
| eCl@ss 7.0 | 27440209 |

## Approvals

### Approvals

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#### Approvals

UL Recognized / GOST

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

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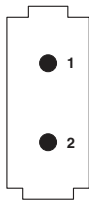
## Approvals

|                                |       |
|--------------------------------|-------|
| UL Recognized                  |       |
| mm <sup>2</sup> /AWG/kcmil     | 4     |
| Nominal current I <sub>N</sub> | 70 A  |
| Nominal voltage U <sub>N</sub> | 600 V |

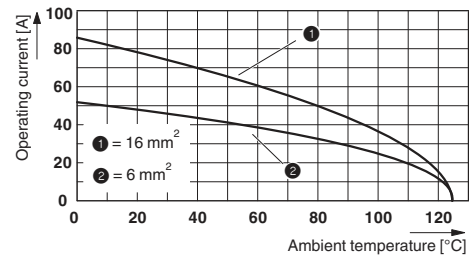
|      |  |
|------|--|
| GOST |  |
|------|--|

## Drawings

Schematic diagram



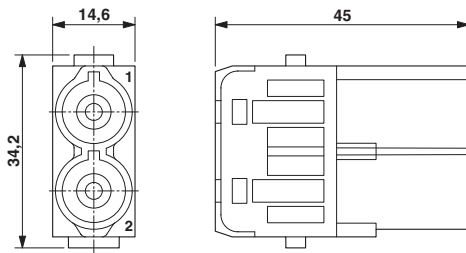
Diagram



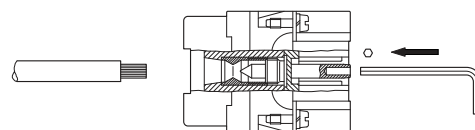
Connector pin assignment, connection side

Derating diagram (6 modules in HC-B 24 housing)

Dimensioned drawing



Schematic diagram



Axial screw connection

Pin module