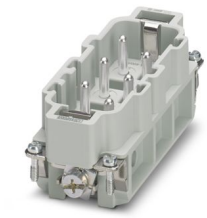
# HC-HS06-I-UT-M - Contact insert

1406531

https://www.phoenixcontact.com/us/products/1406531

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Contact insert, number of positions: 6+PE, size: B16, number of connections per position: 1, Pin, Screw connection, 400 V/690 V, 41 A, 0.5 $mm^2$ ... 6 $mm^2$, application: Power

## Your advantages

- For fast coding with plastic profile<br/>
- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

| | |
|---|---|
| Item number | 1406531 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF61 |
| Product key | AF7ABI |
| GTIN | 4046356926270 |
| Weight per piece (including packing) | 88 g |
| Weight per piece (excluding packing) | 87.5 g |
| Customs tariff number | 85366990 |
| Country of origin | CN |

## Technical data

### Notes

| | |
|---|---|
| General | For HEAVYCON housing B16 and B32 |
| General | Connectors may be operated only when there is no load/voltage. |

### Mounting

| | |
|---|---|
| Assembly note | To ensure correct use, installation in housing with IP54 protection or better is required |

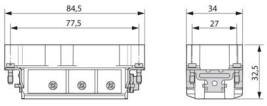
### Product properties

| | |
|---|---|
| Product type | Contact insert with a fixed no. of positions |
| Series | HC-HS |
| Application | Power |
| Type | B16 |
| | B32 |
| Number of positions | 6 |
| Connection profile | 6+PE |
| Contact numbering | 1 - 6 |
| Number of connections per position | 1 |
| Contact material type | turned |

#### Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 3 |

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 34 mm |
| Height | 34 mm |
| Length | 84.5 mm |
| Drill hole distance, horizontal | 77.5 mm |
| Drill hole distance, vertical | 27 mm |

#### Mechanical characteristics

| | |
|---|---|
| Contact diameter | 3.5 mm |

### Connection data

#### Connection technology

| | |
|---|---|
| Connection technology | Screw connection |
| Number of connections per position | 1 |

| | |
|---|---|
| Connection in acc. with standard | IEC / EN |

Conductor connection

| | |
|---|---|
| Conductor cross-section | 0.5 mm² ... 6 mm² (power contacts) |
| Connection cross section AWG | 20 ... 10 |
| Tightening torque | 0.8 Nm ... 1.2 Nm (PE connection) |
| | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
| | 1.2 Nm |
| Stripping length of the individual wire | 10 mm |

## Electrical properties

| | |
|---|---|
| Rated voltage (III/3) | 400 V (Conductor-PE) |
| | 690 V (Conductor-Conductor) |
| Rated voltage for power contacts | 400/690 V |
| Rated surge voltage | 6 kV (power contacts) |
| Rated current | 41 A (power contacts) |
| SCCR | 5 kA (UL 2237) |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | ≥ 500 |

## Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | Copper alloy |
| Contact surface material | Ag |
| Contact carrier material | PC |

## Environmental and real-life conditions

Ambient conditions

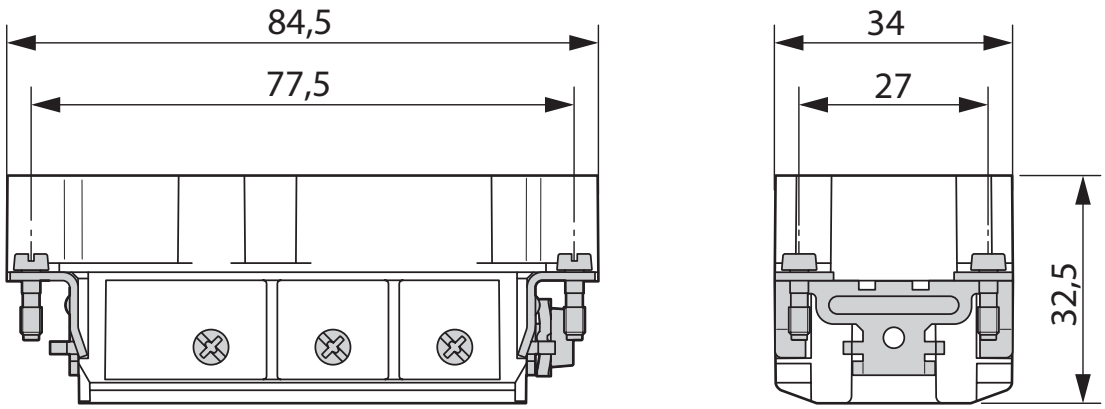
| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 125 °C (including heating up of contacts) |

## Standards and regulations

| | |
|---|---|
| Standards/regulations | PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

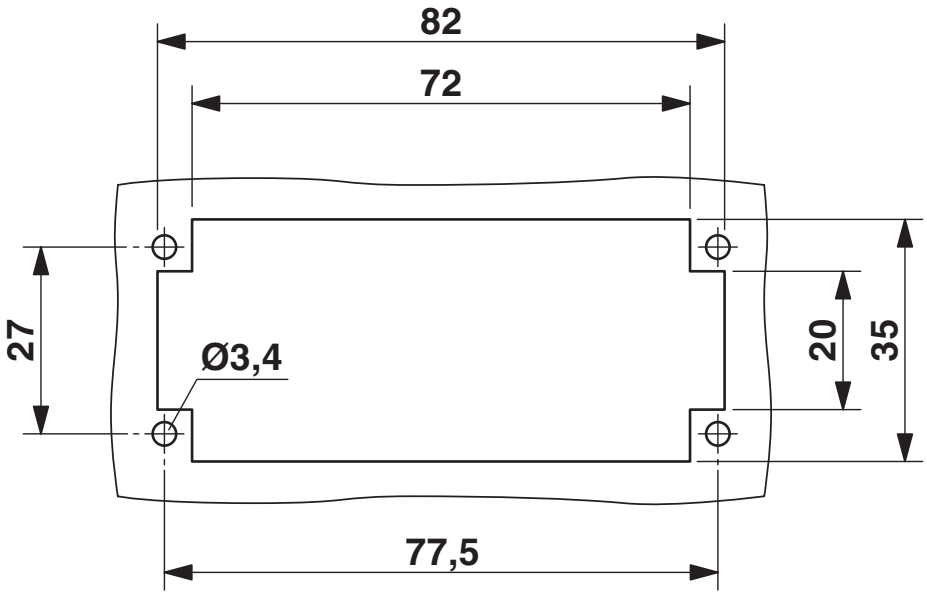
## Drawings

Dimensional drawing



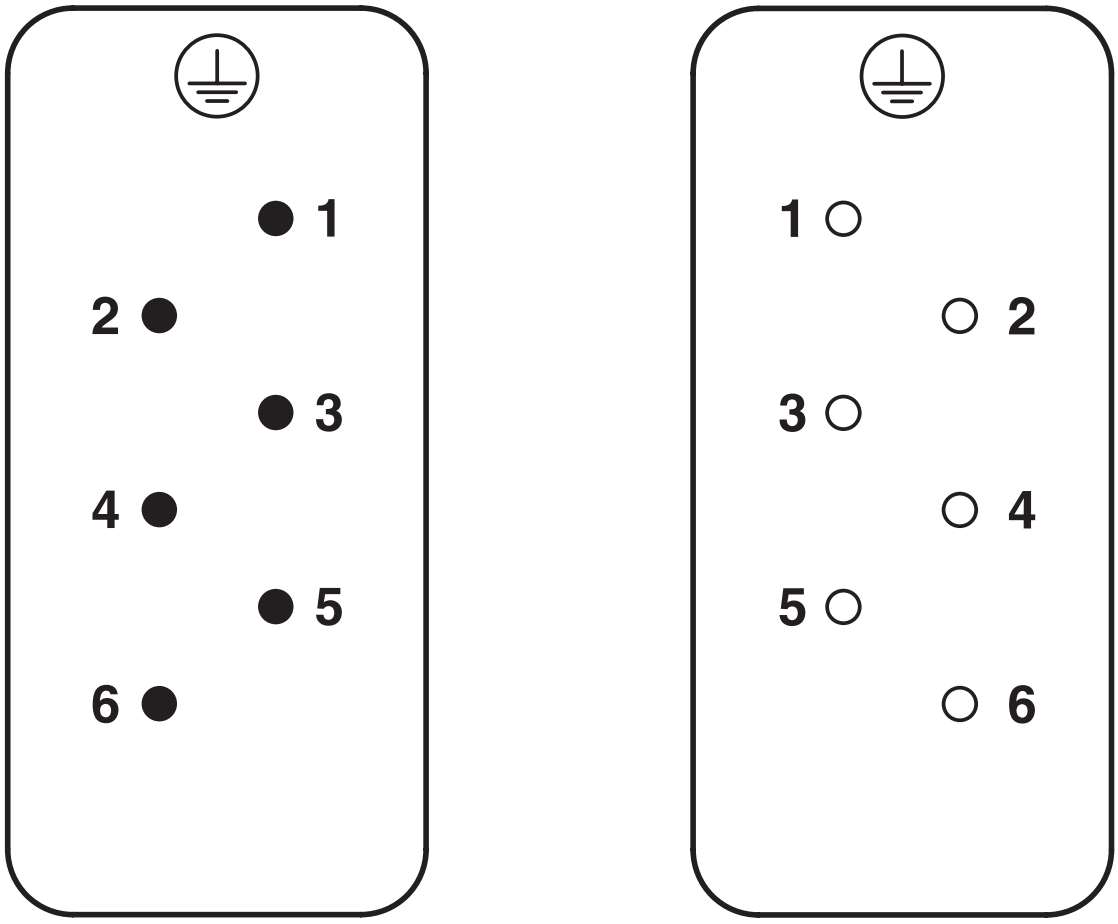

Male insert

Dimensional drawing



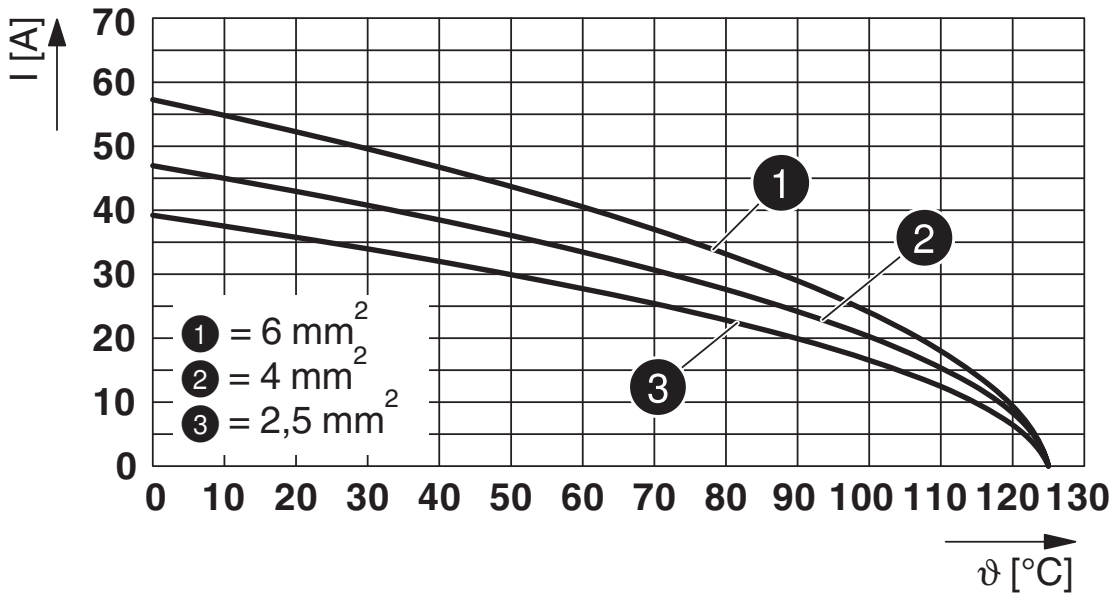

Mounting cutout when used without housing

Schematic diagram




Connector pin assignment, connection side

Diagram




Derating diagram

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440205 |
| ECLASS-15.0 | 27440205 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000438 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121500 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |


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