

# HC-A04-I-UT-M - Contact insert

1585236

<https://www.phoenixcontact.com/us/products/1585236>



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Contact insert, number of positions: 4+PE, size: D7, number of connections per position: 1, Pin, Screw connection, 230 V/400 V, 10 A, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

## Product description

Contact insert  
without wire protection, with IP65 sealing screw

## Your advantages

- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1585236             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF61                |
| Product key                          | BF7ABJ              |
| Catalog page                         | Page 505 (C-2-2019) |
| GTIN                                 | 4046356284967       |
| Weight per piece (including packing) | 16.1 g              |
| Weight per piece (excluding packing) | 14.3 g              |
| Customs tariff number                | 85366990            |
| Country of origin                    | CN                  |

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## Technical data

### Notes

|         |                                                                |
|---------|----------------------------------------------------------------|
| General | for housing HC-D7                                              |
| 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 |
|               | Already includes one IP65 sealing screw                                                   |

### Product properties

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Product type                       | Contact insert with a fixed no. of positions |
| Series                             | HC-A                                         |
| Type                               | D7                                           |
| Number of positions                | 4                                            |
| Connection profile                 | 4+PE                                         |
| Contact numbering                  | 1 - 4                                        |
| Number of connections per position | 1                                            |
| Contact material type              | turned                                       |
| Screwdriver blade                  | 0.4 x 2.5 mm                                 |

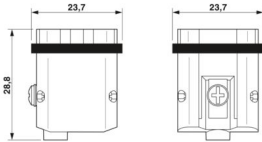
### Data management status

|                  |    |
|------------------|----|
| Article revision | 04 |
|------------------|----|

### Insulation characteristics

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

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 28 mm                                                                                |
| Height              | 28.5 mm                                                                              |
| Length              | 21 mm                                                                                |

### Mechanical characteristics

|                  |        |
|------------------|--------|
| Contact diameter | 1.6 mm |
|------------------|--------|

### Connection data

#### Connection technology

|                       |                  |
|-----------------------|------------------|
| Connection technology | Screw connection |
|-----------------------|------------------|

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|                                    |          |
|------------------------------------|----------|
| Number of connections per position | 1        |
| Connection in acc. with standard   | IEC / EN |

## Conductor connection

|                                         |                                                                                                |
|-----------------------------------------|------------------------------------------------------------------------------------------------|
| Conductor cross section                 | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                                    |
| Connection cross section AWG            | 20 ... 14                                                                                      |
| Tightening torque                       | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)<br>0.25 Nm ... 0.5 Nm |
| Stripping length of the individual wire | 5 mm                                                                                           |

## Electrical properties

|                                  |                             |
|----------------------------------|-----------------------------|
| Rated voltage (III/3)            | 230 V (Conductor-PE)        |
|                                  | 400 V (Conductor-Conductor) |
| Rated voltage for power contacts | 230/400 V                   |
| Rated surge voltage              | 4 kV                        |
|                                  | 4 kV                        |
| Rated current                    | 10 A                        |
| SCCR                             | 5 kA (UL 2237)              |

## Mechanical properties

### Mechanical data

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

## Material specifications

|                                        |                                                                                                                         |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Flammability rating according to UL 94 | V0                                                                                                                      |
| Seal material Profile gasket           | NBR, conductive                                                                                                         |
| Contact material                       | Copper alloy                                                                                                            |
| Contact surface material               | Ag                                                                                                                      |
| Contact carrier material               | PC                                                                                                                      |
| Standards/regulations                  | PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

|                                        |                            |
|----------------------------------------|----------------------------|
| Constructional and testing regulations | IEC 61984:2008             |
|                                        | IEC 60664-1:2007           |
|                                        | IEC 60664-1, DIN IEC 60512 |
| Tests                                  | IEC 61984:2008             |
|                                        | IEC 60664-1:2007           |
|                                        | IEC 60664-1, DIN IEC 60512 |

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Testing

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

# HC-A04-I-UT-M - Contact insert

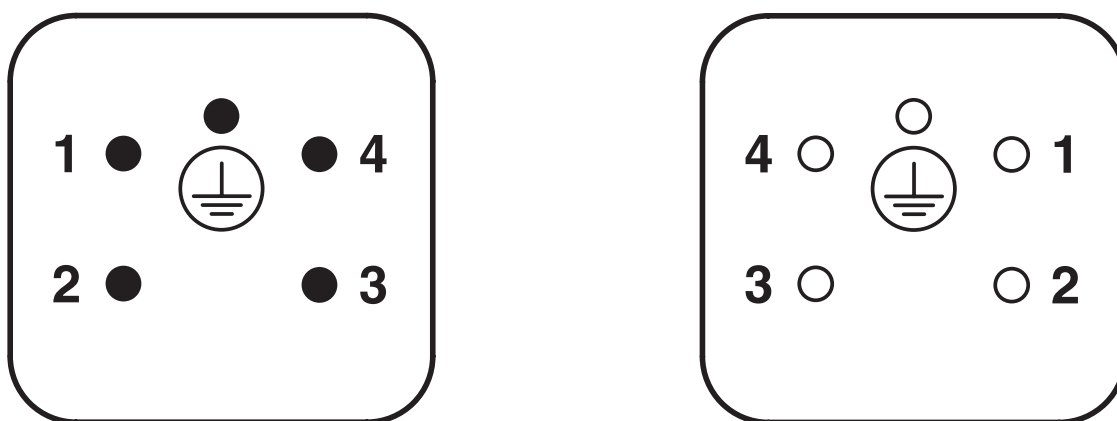
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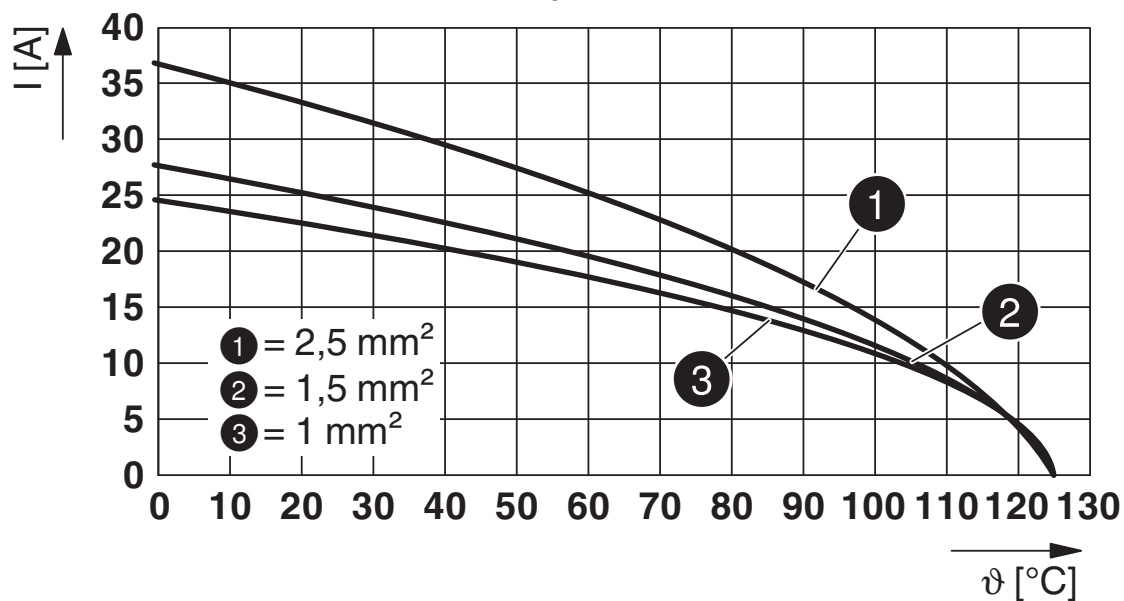
## Drawings

Schematic diagram



Connector pin assignment connection side: Left pin; right socket

Diagram



Derating diagram

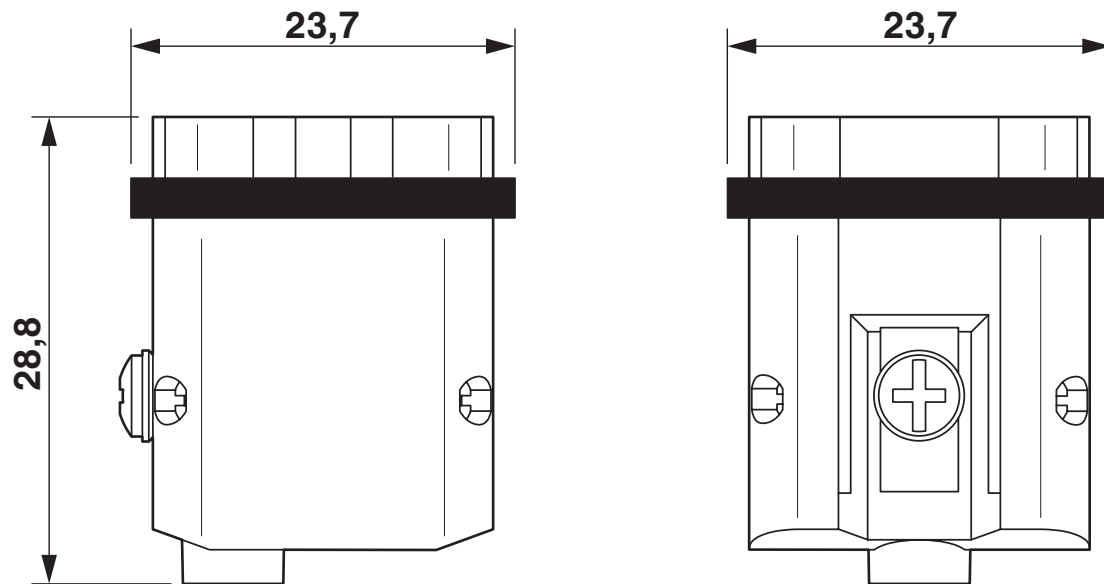
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Dimensional drawing



Male insert

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1585236>

### DNV

Approval ID: TAE000037S



### CSA

Approval ID: 13631

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 600 V                 | 18 A                  | - 14              | -                           |



### UL Recognized

Approval ID: E118976

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 600 V                 | 24 A                  | -                 | -                           |



### EAC

Approval ID: RU C-DE.BL08.B.00511



### UL Recognized

Approval ID: E468743

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 600 V                 | 24 A                  | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440205 |
| ECLASS-12.0 | 27440205 |
| ECLASS-13.0 | 27440205 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000438 |
|----------|----------|

### UNSPSC

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

Environmental product compliance

|                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                                                                                                                                                                   |
| Fulfills EU RoHS substance requirements | Yes                                                                                                                                                                                                                               |
| Exemption                               | 6(c)                                                                                                                                                                                                                              |
| China RoHS                              |                                                                                                                                                                                                                                   |
| Environment friendly use period (EFUP)  | EFUP-50                                                                                                                                                                                                                           |
|                                         | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC                           |                                                                                                                                                                                                                                   |
| REACH candidate substance (CAS No.)     | Lead(CAS: 7439-92-1)                                                                                                                                                                                                              |
| SCIP                                    | e3a08a24-0f9d-492d-95a1-7d845bd37d6e                                                                                                                                                                                              |

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## Accessories

### HC-CP-D07-PL - Coding element

1095413

<https://www.phoenixcontact.com/us/products/1095413>

Coding element for HC-D07 contact inserts of the HC-A03... / HC-A04... / HC-Q03... / HC-Q04... / HC-Q07... series



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### HC-D07-SP-RBK - Profile gasket

1419622

<https://www.phoenixcontact.com/us/products/1419622>

Profile gasket, design: D7, for pin inserts



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## HC-D 7-DS-IP65 - Sealing screw

1686229

<https://www.phoenixcontact.com/us/products/1686229>



Sealing screw, size: Countersunk head, IP67, replacement part for D7 size HEAVYCON housing

## HC-A04-I-UT-F - Contact insert

1585249

<https://www.phoenixcontact.com/us/products/1585249>



Contact insert, number of positions: 4+PE, size: D7, number of connections per position: 1, Socket, Screw connection, 230 V/400 V, 10 A, 0.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

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