

# HC-A16-I-CT-F-32 - Contact insert



1585469

<https://www.phoenixcontact.com/us/products/1585469>

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Contact insert, number of positions: 16+PE, size: D25, number of connections per position: 1, Socket, Crimp connection, 250 V, 16 A, 0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>



## Your advantages

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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1585469       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF61          |
| Product key                          | AF7ABB        |
| GTIN                                 | 4046356285193 |
| Weight per piece (including packing) | 34.5 g        |
| Weight per piece (excluding packing) | 22.22 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Notes

|         |  |
|---------|--|
| General | for HC-D25 / HC-D50 housing, crimp contact CK2,5-ED (crimp contacts not included in scope of supply) |
| 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<br>for plastic coding profiles: 4 pcs. |
|---------------|--|

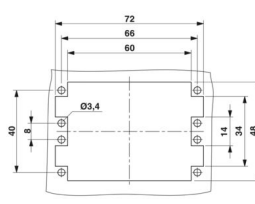
### Product properties

|                                    |  |
|------------------------------------|--|
| Product type                       | Contact insert with a fixed no. of positions |
| Series                             | HC-A   |
| Type                               | D25<br>D50                                   |
| Number of positions                | 16   |
| Connection profile                 | 16+PE  |
| Contact numbering                  | 17 - 32                                      |
| Number of connections per position | 1  |
| Contact material type              | turned                                       |

### Insulation characteristics

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

### Dimensions

|                                 |  |
|---------------------------------|--|
| Dimensional drawing             |  |
| Width                           | 23 mm  |
| Height                          | 33 mm  |
| Length                          | 72 mm  |
| Drill hole distance, horizontal | 66 mm  |
| Drill hole distance, vertical   | 16 mm  |

### Mechanical characteristics

|                  |        |
|------------------|--------|
| Contact diameter | 2.5 mm |
|------------------|--------|

### Connection data

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## Connection technology

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

## Conductor connection

|   |  |
|---|--|
| Conductor cross-section                 | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> (applies to stranded conductors) |
| Connection cross section AWG            | 20 ... 12  |
| Tightening torque                       | 0.7 Nm ... 1 Nm (PE connection)  |
|   | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)   |
| Stripping length of the individual wire | 8 mm   |

## Electrical properties

|                       |       |
|-----------------------|-------|
| Rated voltage (III/3) | 250 V |
| Rated surge voltage   | 4 kV  |
| Rated current         | 16 A  |

## Mechanical properties

### Mechanical data

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

## Material specifications

|                          |                       |
|--------------------------|-----------------------|
| Contact material         | Copper alloy          |
| Contact surface material | Ag (alternatively Au) |
| Contact carrier material | PC                    |
| Standards/regulations    | PC                    |

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### 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) |
|-----------------------|---|

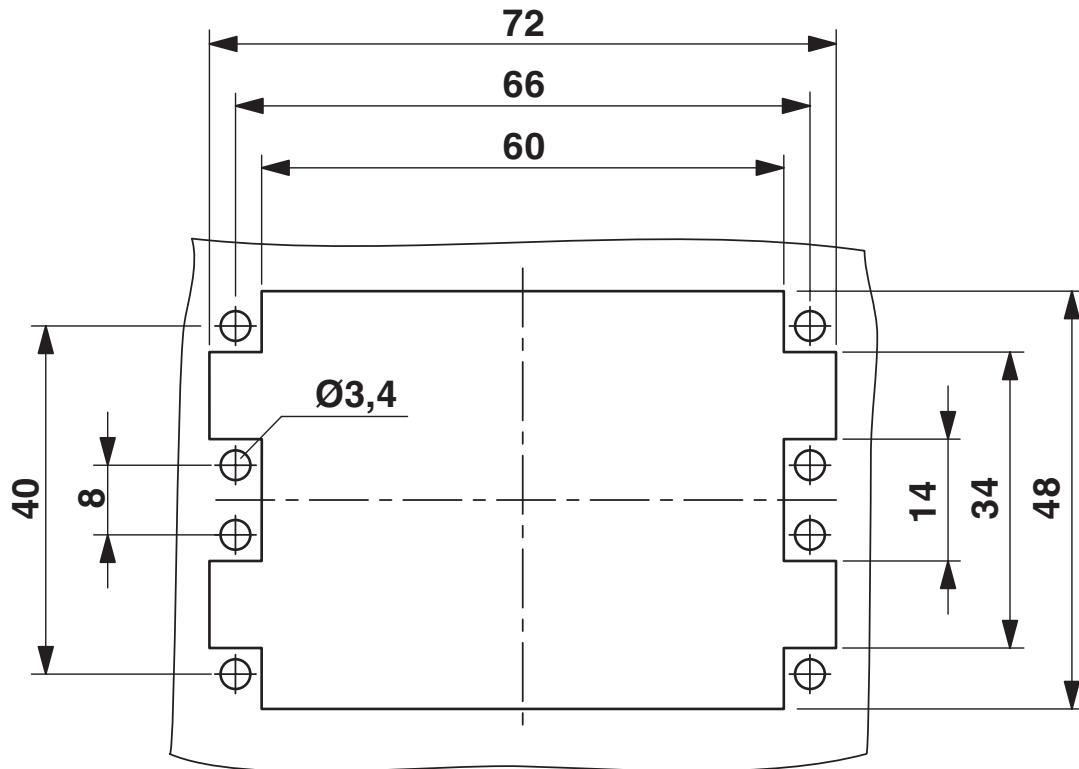
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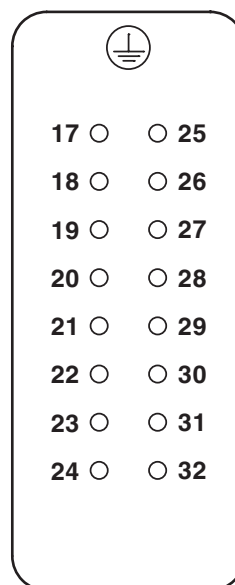
## Drawings

Dimensional drawing



Mounting cutout

Schematic diagram



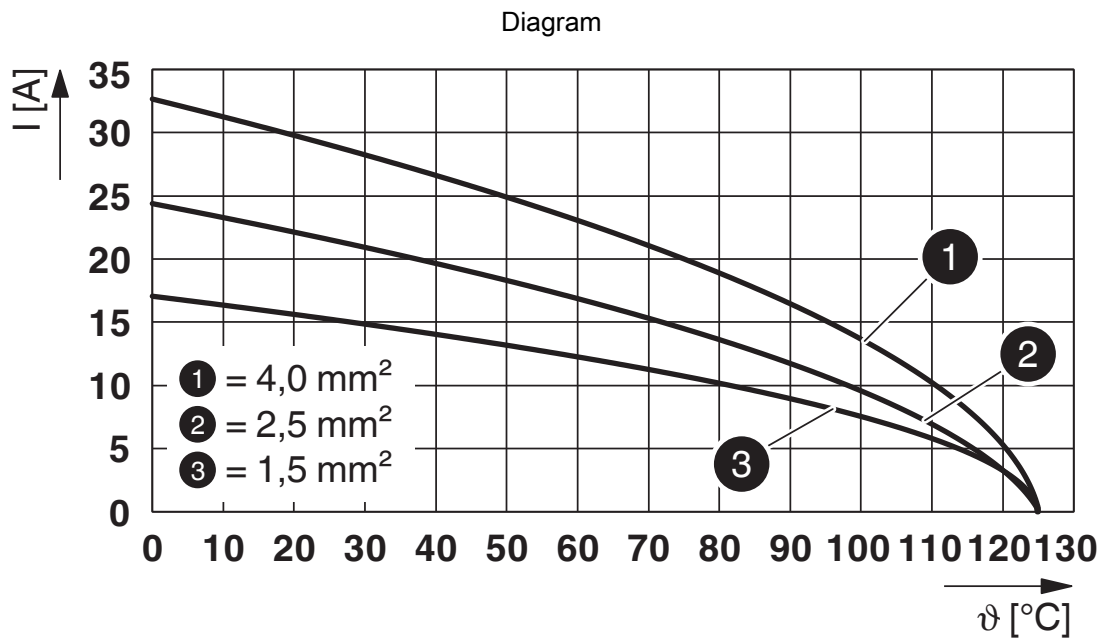
Connector pin assignment, connection side

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Derating diagram

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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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