

# HC-K 6/ 6 EBUS - Contact insert



1636402

<https://www.phoenixcontact.com/us/products/1636402>

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Contact insert, number of positions: 6+6+PE, size: B24, power contacts: 6, control contacts: 6, Socket, Axial screw connection, 690 V, 100 A, 16 mm<sup>2</sup> ... 35 mm<sup>2</sup>, application: Power/signal

## Your advantages

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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1636402       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF61          |
| Product key                          | AF7ABA        |
| GTIN                                 | 4046356180320 |
| Weight per piece (including packing) | 302.8 g       |
| Weight per piece (excluding packing) | 301.1 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|         |  |
|---------|--|
| General | For HEAVYCON ADVANCE and HEAVYCON housing of type B24, with third-party logo |
| 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 |
|---------------|---|

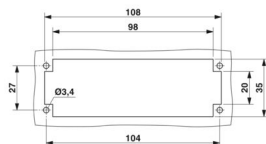
### Product properties

|                         |  |
|-------------------------|--|
| Product type            | Contact insert with a fixed no. of positions       |
| Series                  | HC-K   |
| Application             | Power/signal                                       |
| Type                    | B24<br>B48   |
| Number of positions     | 12   |
| Connection profile      | 6+6+PE   |
| Contact numbering       | 1 - 6 (power contacts)<br>1 - 6 (control contacts) |
| No. of power contacts   | 6  |
| No. of control contacts | 6  |

### Insulation characteristics

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

### Dimensions

|                                 |  |
|---------------------------------|--|
| Dimensional drawing             |  |
| Width                           | 34 mm  |
| Height                          | 52.2 mm  |
| Length                          | 111 mm   |
| Drill hole distance, horizontal | 104 mm   |
| Drill hole distance, vertical   | 27 mm  |

### Connection data

#### Connection technology

|                       |   |
|-----------------------|---|
| Connection technology | Axial screw connection (power contacts) |
|                       | Screw connection (control contacts)     |

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## Conductor connection

|   |  |
|---|--|
| Conductor cross-section                 | 16 mm <sup>2</sup> ... 35 mm <sup>2</sup> (power contacts)               |
|   | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (control contacts)           |
| Connection cross section AWG            | 5 ... 2 (power contacts)   |
|   | 24 ... 13 (control contacts)   |
| Tightening torque                       | 0.8 Nm ... 1.2 Nm (PE connection)  |
|   | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
|   | 6 Nm (Power contacts for 16 mm <sup>2</sup> )                            |
|   | 7 Nm (Power contacts for 25 mm <sup>2</sup> )                            |
|   | 0.8 Nm (control contacts)  |
| Stripping length of the individual wire | 8 Nm (Power contacts for 35 mm <sup>2</sup> )                            |
|   | 13 mm ± 1 mm (Power)   |
|   | 7.5 mm (Signal)  |

## Electrical properties

|                       |                          |
|-----------------------|--------------------------|
| Rated voltage (III/3) | 690 V (power contacts)   |
|                       | 400 V (control contacts) |
| Rated surge voltage   | 8 kV (power contacts)    |
|                       | 6 kV (control contacts)  |
| Rated current         | 100 A (power contacts)   |
|                       | 16 A (control contacts)  |

## Mechanical properties

### Mechanical data

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

## Material specifications

|  |          |
|--|----------|
| Flammability rating according to UL 94       | V0       |
| Contact material                             | Cu alloy |
| Contact carrier material                     | PC       |
| Material of contact surface, power contact   | Ag       |
| Material of contact surface, control contact | Ag       |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                   |
|---------------------------------|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
|---------------------------------|-------------------|

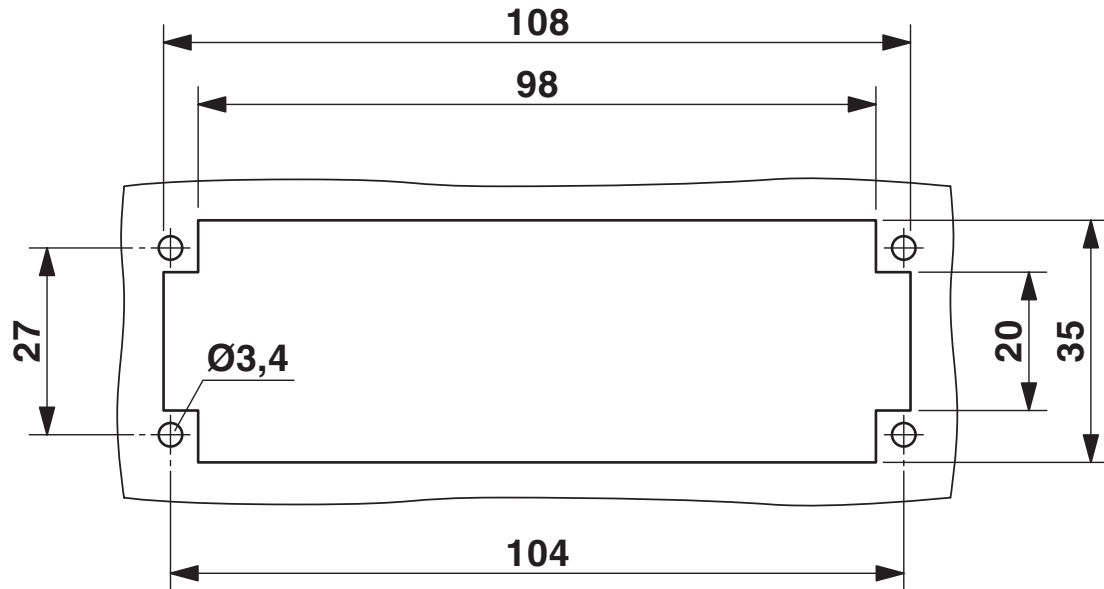
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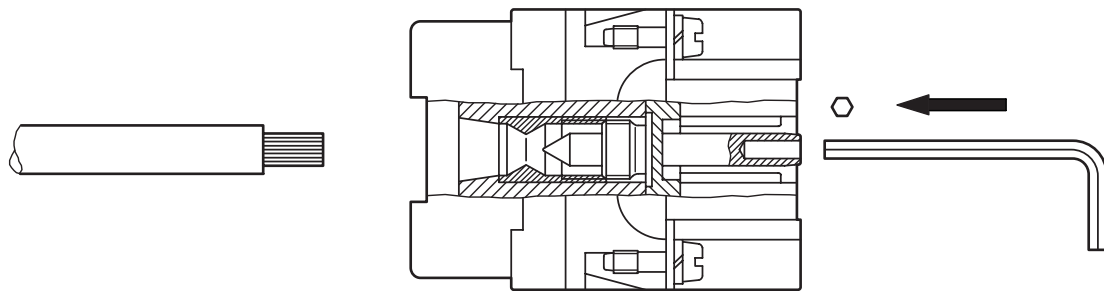
## Drawings

Dimensional drawing



Mounting cutout when used without housing

Schematic diagram



Axial connection

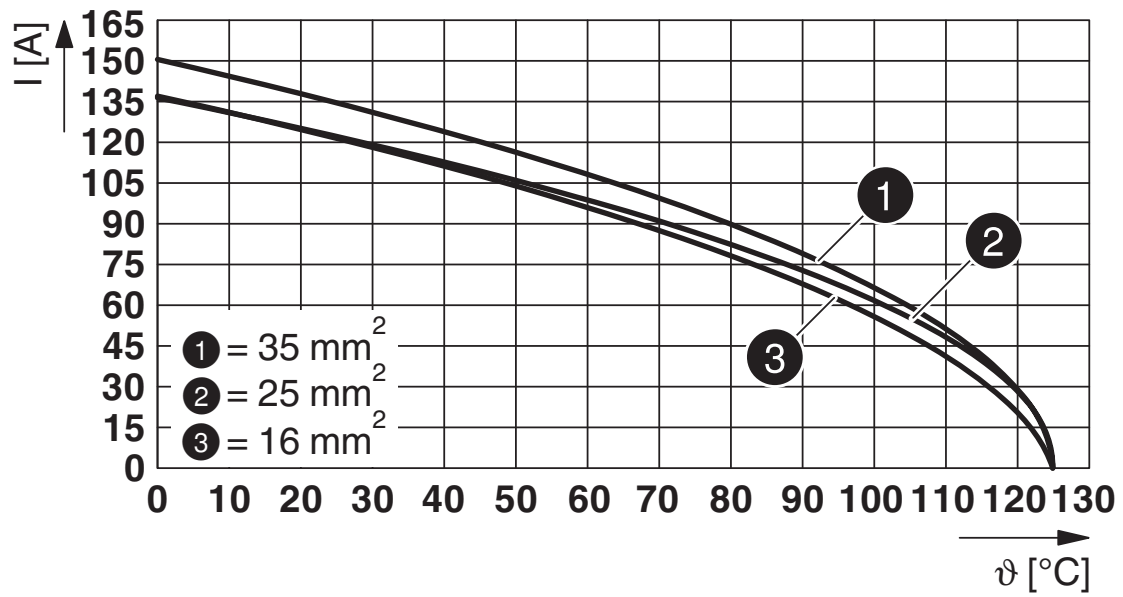
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Diagram



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1636402>

|  <b>UL Recognized</b><br>Approval ID: E118976 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
| Power  | 600 V                 | 100 A                 | - 2               | -                           |
| Control  | 600 V                 | 16 A                  | 14                | -                           |

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## Classifications

### ECLASS

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

### ETIM

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