

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 mm² ... 35 mm², 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

Mounting

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

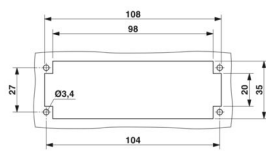
Product properties

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

Conductor connection

| | |
|------------------------------|--|
| Conductor cross-section | 16 mm ² ... 35 mm ² (power contacts) 0.2 mm ² ... 2.5 mm ² (control contacts) |
| Connection cross section AWG | 5 ... 2 (power contacts) |

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| | |
|---|--|
| | 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 ²) |
| | 7 Nm (Power contacts for 25 mm ²) |
| | 0.8 Nm (control contacts) |
| Stripping length of the individual wire | 8 Nm (Power contacts for 35 mm ²) |
| | 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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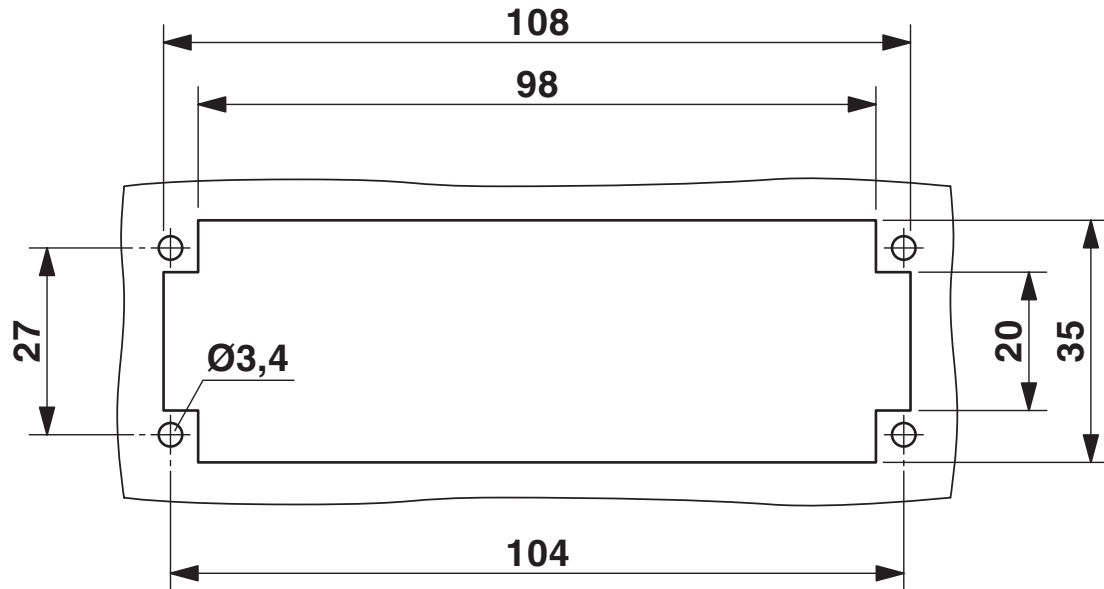


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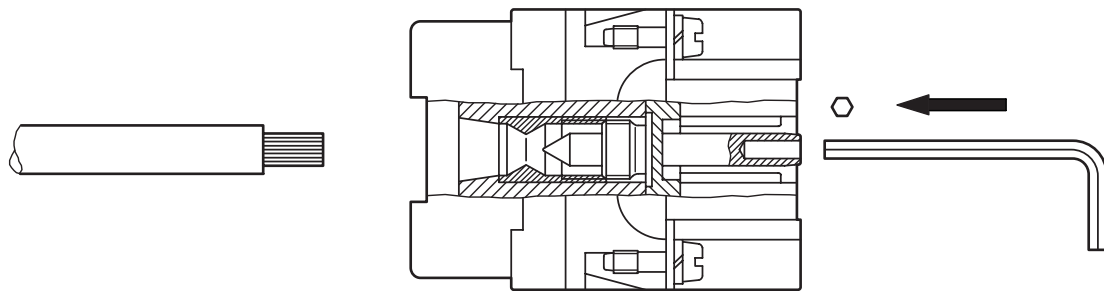
Drawings

Dimensional drawing



Mounting cutout when used without housing

Schematic diagram



Axial connection

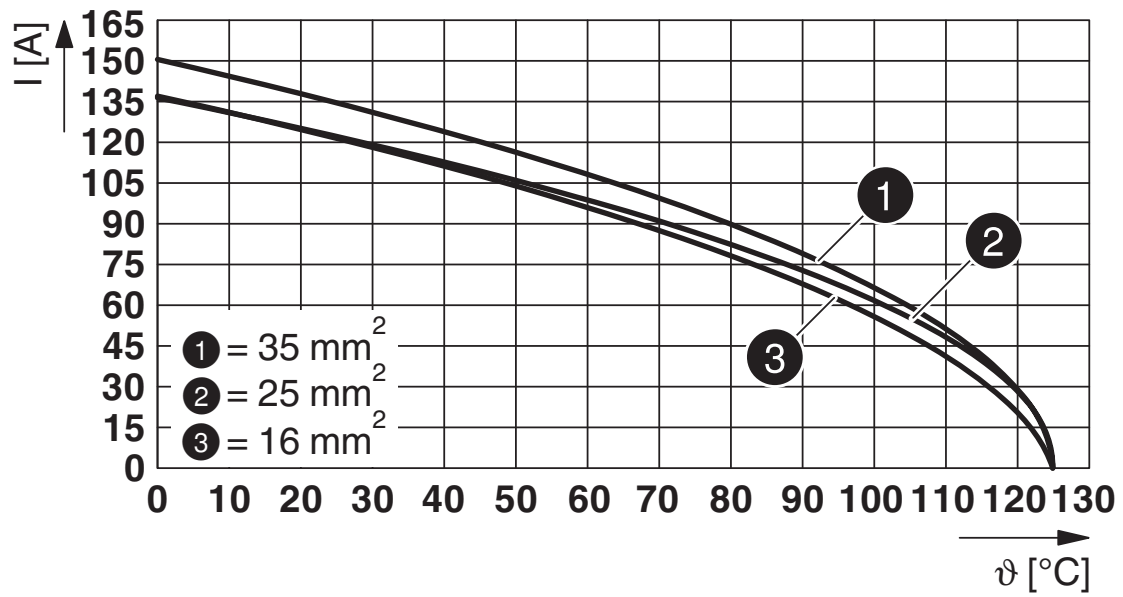
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Diagram



Derating diagram

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Approvals

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

|  UL Recognized Approval ID: E118976 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section 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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|----------------|
| CO2e kg | 15.965 kg CO2e |
|---------|----------------|

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