

HC-K 6/36-ESTC - Contact insert



1636376

<https://www.phoenixcontact.com/us/products/1636376>

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Contact insert, number of positions: 6+36+PE, size: B16, power contacts: 6, control contacts: 36, Pin, Crimp connection, 690 V, 40 A, 1.5 mm² ... 6 mm², application: Power/signal

Your advantages

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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1636376 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF61 |
| Product key | AF7ABA |
| GTIN | 4046356011518 |
| Weight per piece (including packing) | 68.2 g |
| Weight per piece (excluding packing) | 65.6 g |
| Customs tariff number | 85366990 |
| Country of origin | CN |

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Technical data

Notes

| | |
|---------|---|
| General | For HEAVYCON ADVANCE and HEAVYCON housing of type B16/B32, power contacts: CK 4,0-ED, control contacts: CK 1,6-ED (crimp contacts not supplied as standard) |
| 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 |
|---------------|---|

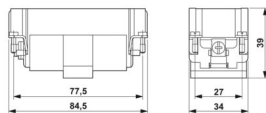
Product properties

| | |
|-------------------------|---|
| Product type | Contact insert with a fixed no. of positions |
| Series | HC-K |
| Application | Power/signal |
| Type | B16 B32 |
| Number of positions | 42 |
| Connection profile | 6+36+PE |
| Contact numbering | 1 - 6 (power contacts) 1 - 36 (control contacts) |
| No. of power contacts | 6 |
| No. of control contacts | 36 |
| Contact material type | turned |

Insulation characteristics

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

Dimensions

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Width | 34 mm |
| Height | 39 mm |
| Length | 84.5 mm |
| Drill hole distance, horizontal | 77.5 mm |

Mechanical characteristics

| | |
|------------------|------|
| Contact diameter | 4 mm |
|------------------|------|

Connection data

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Connection technology

| | |
|-----------------------|-------------------------------------|
| Connection technology | Crimp connection (power contacts) |
| | Crimp connection (control contacts) |

Conductor connection

| | |
|---|--|
| Conductor cross-section | 1.5 mm ² ... 6 mm ² (power contacts) |
| | 0.14 mm ² ... 2.5 mm ² (control contacts) |
| Connection cross section AWG | 16 ... 10 (power contacts) |
| | 26 ... 14 (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) |
| Stripping length of the individual wire | 9 mm (Power 1.5 ... 2.5 mm ²) |
| | 8 mm (Control contacts, with a cross section of 0.14 mm ² ... 1.5 mm ²) |
| | 9.5 mm (Power 4 ... 6 mm ²) |
| | 6 mm (2.5 mm ²) |

Electrical properties

| | |
|-----------------------|---------------------------|
| Rated voltage (III/3) | 690 V (power contacts) |
| | 160 V (control contacts) |
| Rated surge voltage | 8 kV (power contacts) |
| | 2.5 kV (control contacts) |
| Rated current | 40 A (power contacts) |
| | 10 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 (alternatively Au) |
| Standards/regulations | PC |
| | PC |

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

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Testing

Standards/regulations

PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)

PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

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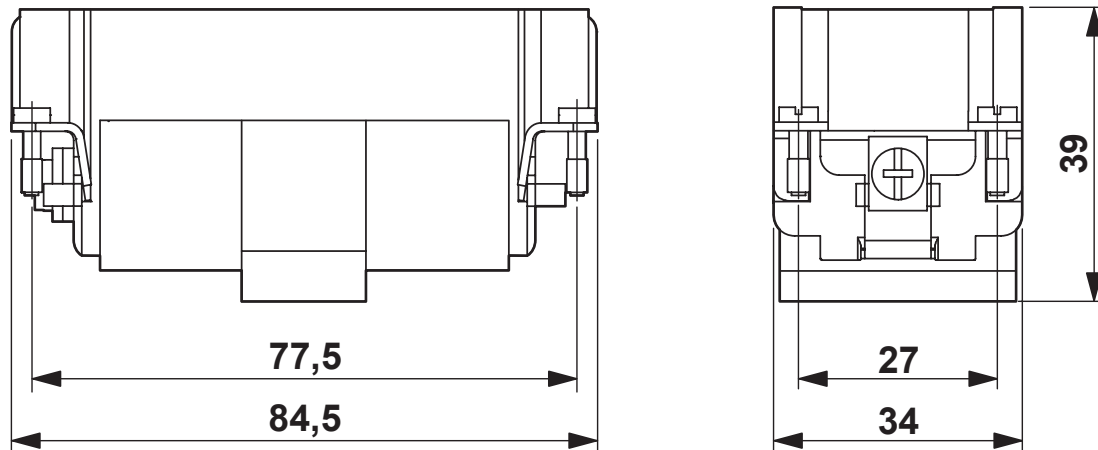


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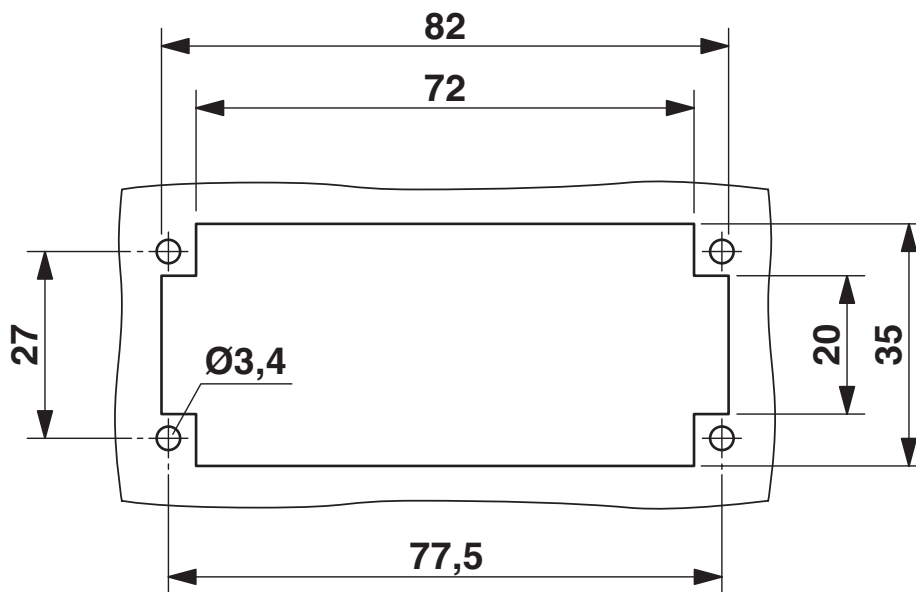
Drawings

Dimensional drawing



Dimensional drawing

Dimensional drawing



Mounting cutout when used without housing

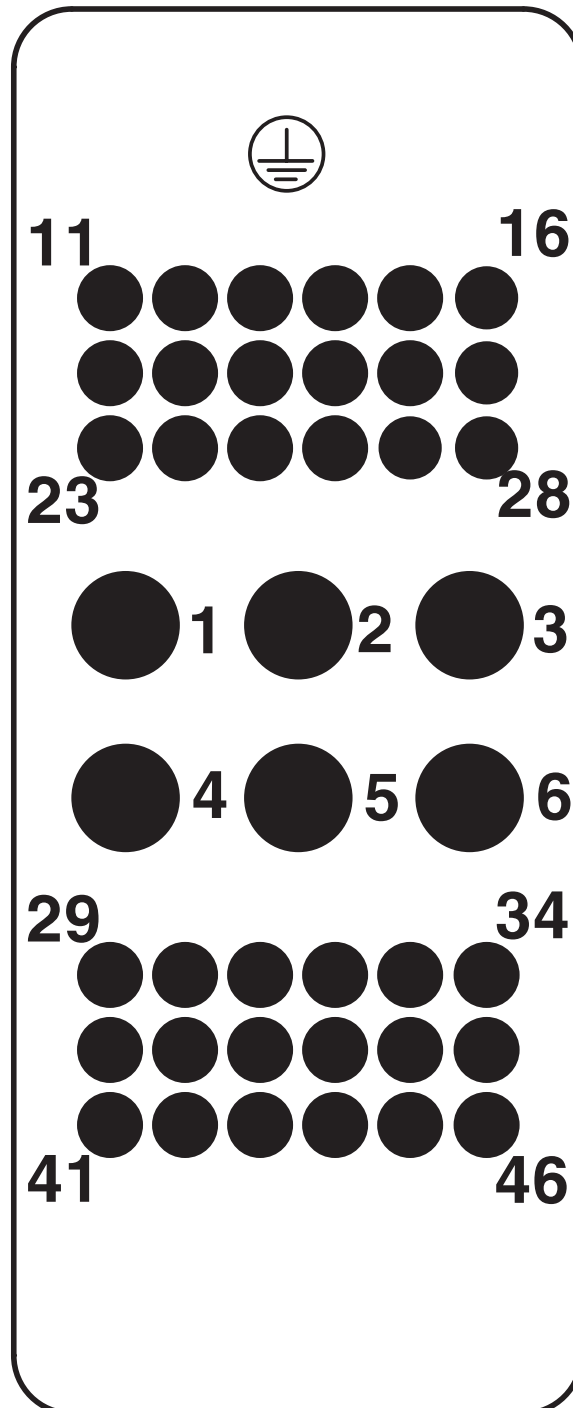
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Schematic diagram



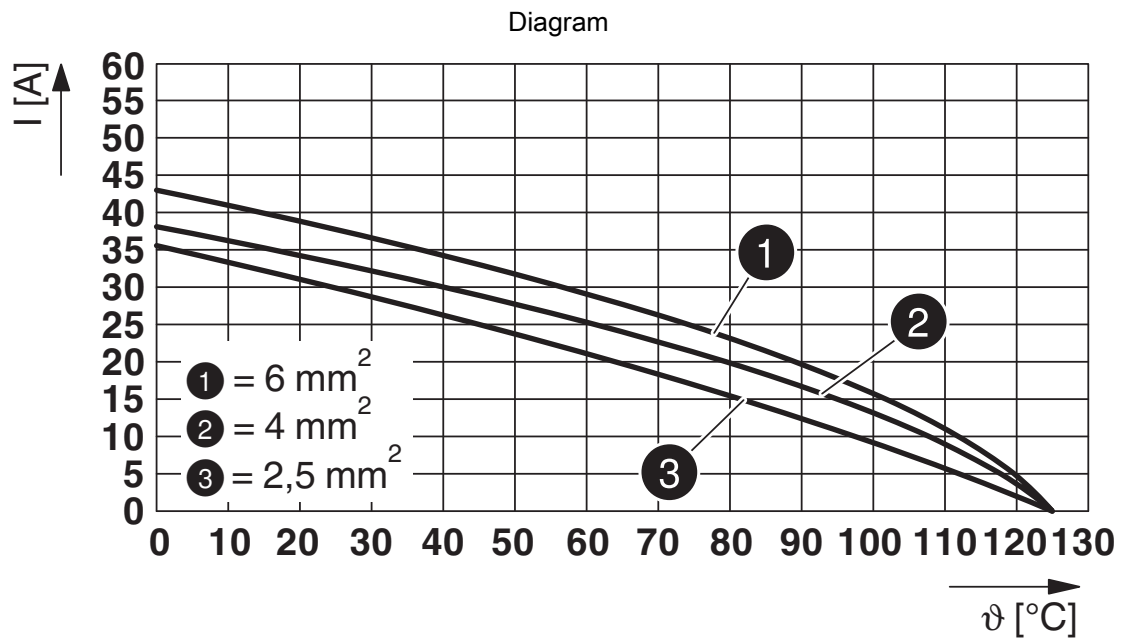
Connector pin assignment, connection side

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Derating diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1636376>

|  UL Recognized Approval ID: E118976 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| Power | 600 V | 40 A | - 10 | - |
| Control | 600 V | 10 A | 14 | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440205 |
| ECLASS-15.0 | 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 | 5.759 kg CO2e |
|---------|---------------|

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