# HC-M-02-CT-M - Contact insert module

1414360

https://www.phoenixcontact.com/us/products/1414360

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Contact insert module, number of positions: 2, power contacts: 2, control contacts: 0, Pin, Crimp connection, 830 V, 40 A, 1.5 $mm^2$ ... 10 $mm^2$, application: Power

## Commercial data

| | |
|---|---|
| Item number | 1414360 |
| Packing unit | 5 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF62 |
| Product key | AF7ACE |
| GTIN | 4055626025032 |
| Weight per piece (including packing) | 11.8 g |
| Weight per piece (excluding packing) | 10.926 g |
| Customs tariff number | 85389099 |
| Country of origin | PL |

## Technical data

### Notes

| | |
|---|---|
| General | For HEAVYCON housing type B6 to B48, HC-M-B...MF-... hinged module carrier frame required, CK4,0..... crimp contacts, 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 | Modular contact insert |
| Series | HC-M-02 |
| Application | Power |
| Number of positions | 2 |
| Connection profile | 2 |
| Contact numbering | 1 - 2 |
| Number of module slots | 1 |
| No. of power contacts | 2 |
| No. of control contacts | 0 |
| Contact material type | turned |

#### Insulation characteristics

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

### Connection data

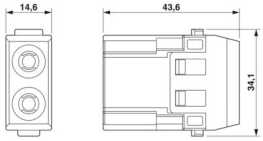
#### Connection technology

| | |
|---|---|
| Connection technology | Crimp connection |
| Connection in acc. with standard | IEC / EN |

#### Conductor connection

| | |
|---|---|
| Conductor cross-section | 1.5 mm² ... 10 mm² |
| Connection cross section AWG | 16 ... 8 |
| Stripping length of the individual wire | 9 mm (for 1.5 mm² ... 2.5 mm²) |
| | 14 mm (for 4 mm² ... 6 mm²) |
| | 14 mm (for 10 mm²) |

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 34.2 mm |
| Height | 43.7 mm |
| Length | 14.6 mm |

Mechanical characteristics

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

## Electrical properties

| | |
|---|---|
| Rated voltage (III/2) contacts | 1000 V |
| Rated voltage (III/3) | 830 V |
| Rated surge voltage (III/2) | 8 kV |
| Rated surge voltage (III/3) | 8 kV |
| Rated surge voltage | 8 kV |
| Rated current | 40 A |
| SCCR | 5 kA (UL 2237) |

## Mechanical properties

Mechanical data

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

## Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | Copper alloy |
| Contact surface material | Ag |
| Contact carrier material | PC |

## Environmental and real-life conditions

Ambient conditions

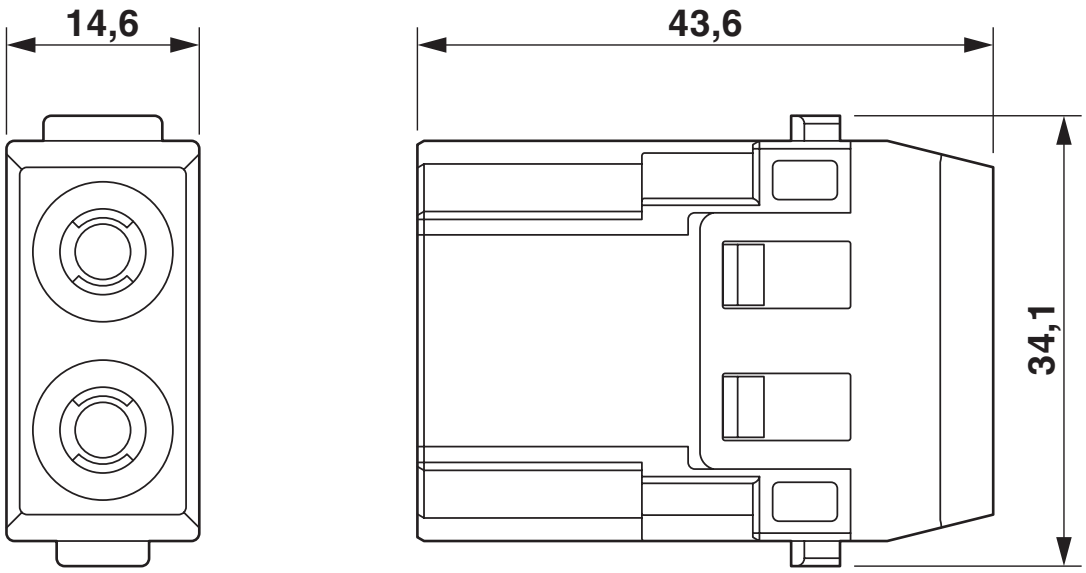
| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 125 °C |

## Standards and regulations

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

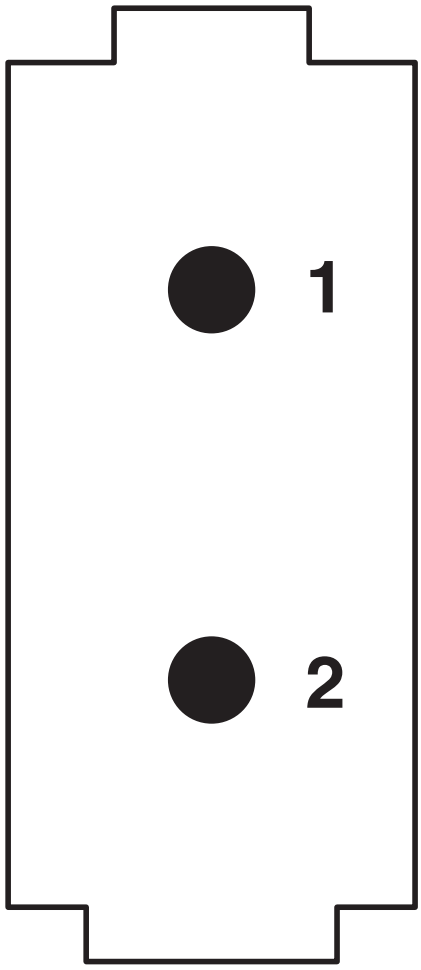
## Drawings

Dimensional drawing



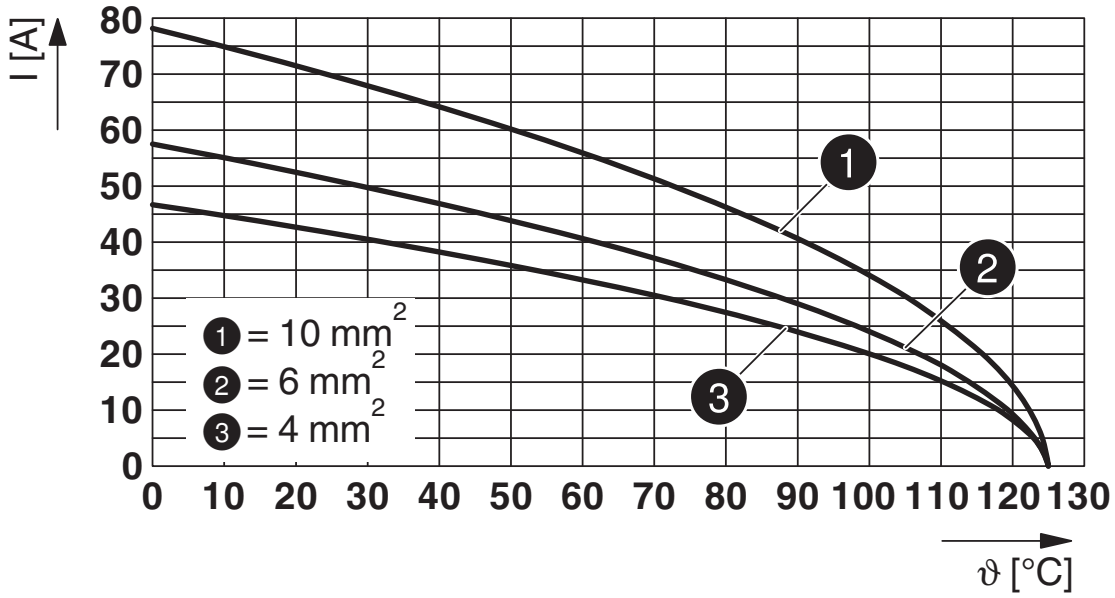

Male insert

Schematic diagram




Connector pin assignment, connection side

Diagram




Derating diagram

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414360

**DNV**
Approval ID: TAE000037S

**CSA**
Approval ID: 158887

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 34 A | - 10 | - |

**UL Recognized**
Approval ID: E118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 42 A | - 10 | - |

**UL Recognized**
Approval ID: E468743

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 42 A | - | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440217 |
| ECLASS-15.0 | 27440217 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000438 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## 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 | 0.069 kg CO2e |


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