# HC-M-25-CT-F - Contact insert module

1414375

https://www.phoenixcontact.com/us/products/1414375

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Contact insert module, number of positions: 25, power contacts: 0, control contacts: 25, Socket, Crimp connection, 30 V, 4 A, 0.08 $mm^2$ ... 0.5 $mm^2$, application: Signal

## Commercial data

| | |
|---|---|
| Item number | 1414375 |
| Packing unit | 5 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF62 |
| Product key | AF7ACE |
| GTIN | 4055626025285 |
| Weight per piece (including packing) | 8.8 g |
| Weight per piece (excluding packing) | 8.735 g |
| Customs tariff number | 85389099 |
| Country of origin | PL |

## Technical data

### Notes

| | |
|---|---|
| General | For HEAVYCON housing type B6 to B48, snap in frames necessary, crimp contacts VS-...CD-1,0... (Crimp contacts not included in scope of supply) |
| General | Connectors may be operated only when there is no load/voltage. |
| General | The use of guide pins (HC-CST) and sockets (HC-CBU) is recommended to prevent tip collision due to misalignment. |

### 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-25 |
| Application | Signal |
| Number of positions | 25 |
| Connection profile | 25 |
| Contact numbering | 1 - 25 |
| Number of module slots | 1 |
| No. of power contacts | 0 |
| No. of control contacts | 25 |
| Contact material type | turned |

Insulation characteristics

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

### Connection data

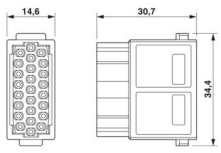
Connection technology

| | |
|---|---|
| Connection technology | Crimp connection |

Conductor connection

| | |
|---|---|
| Conductor cross-section | 0.08 mm² ... 0.5 mm² |
| Connection cross section AWG | 28 ... 20 |
| Stripping length of the individual wire | 4.2 mm |

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |

| | |
|---|---|
| Width | 34.2 mm |
| Height | 30.65 mm |
| Length | 14.6 mm |

Mechanical characteristics

| | |
|---|---|
| Minimum housing height | 52 mm |
| Contact diameter | 1 mm |

## Electrical properties

| | |
|---|---|
| Rated voltage (III/2) contacts | 60 V |
| Rated voltage (III/3) | 30 V |
| Rated surge voltage (III/2) | 0.8 kV |
| Rated surge voltage (III/3) | 0.8 kV |
| Rated surge voltage | 0.8 kV |
| Rated current | 4 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 | Au |
| Contact carrier material | PC |

## Environmental and real-life conditions

Ambient conditions

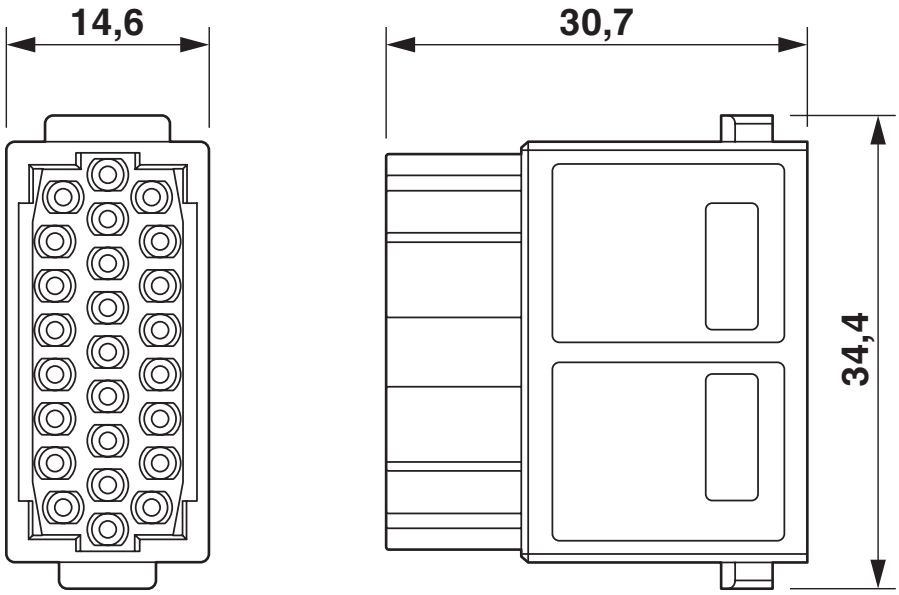
| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 125 °C |

## 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) |

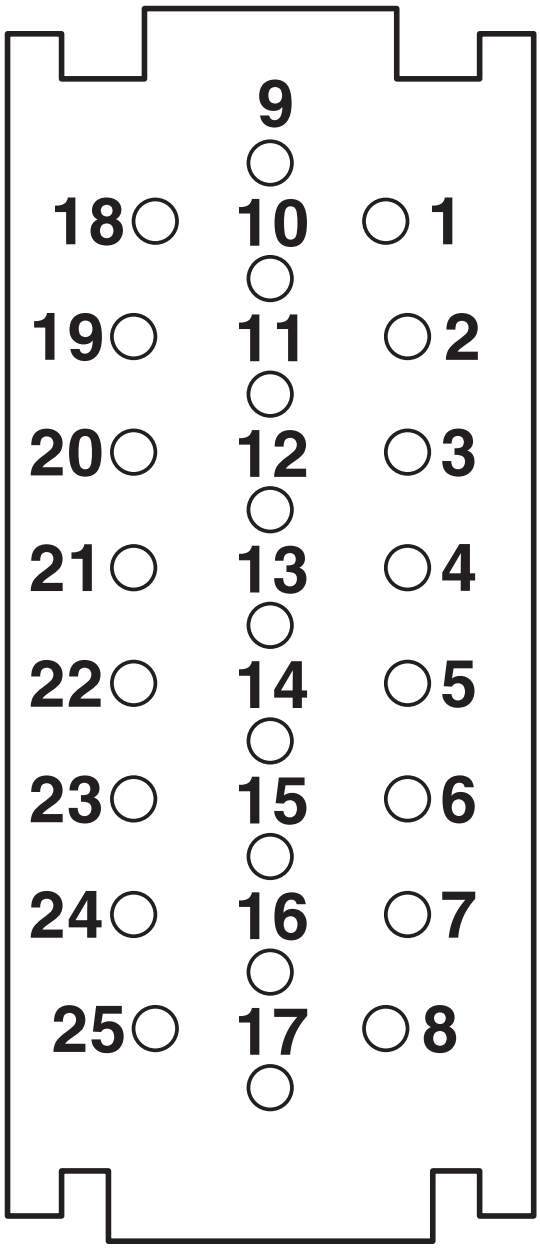
## Drawings

Dimensional drawing



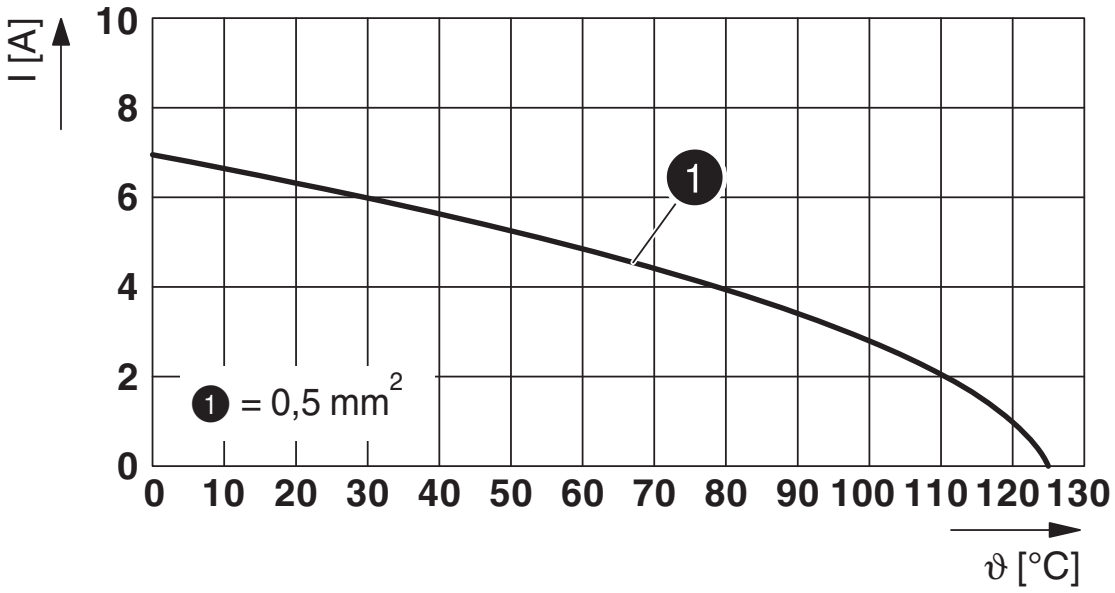

Female insert

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/1414375

**DNV**
Approval ID: TAE000037S

**CSA**
Approval ID: 158887

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 30 V | 4 A | - 20 | - |

**UL Recognized**
Approval ID: E118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 50 V | 5 A | - 20 | - |

**UL Recognized**
Approval ID: E468743

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 50 V | 5 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% |


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