# HC-M-05L-TPT-M - Contact insert module

1423961

https://www.phoenixcontact.com/us/products/1423961

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Contact insert module, number of positions: 5, power contacts: 5, control contacts: 0, number of connections per position: 2, Pin, Push-in connection, 230 V/400 V, 16 A, 0.25 $mm^2$ ... 1.5 $mm^2$, application: Power

## Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- Double conductor connection per pos.

## Commercial data

| | |
|---|---|
| Item number | 1423961 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF62 |
| Product key | AF7ACE |
| GTIN | 4055626365800 |
| Weight per piece (including packing) | 18 g |
| Weight per piece (excluding packing) | 17 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

## Technical data

### Notes

| | |
|---|---|
| General | Use only flexible conductors with ferrule (in conjunction with CRIMPFOX 6 only) |
| General | Connectors may be operated only when there is no load/voltage. |
| General | For HEAVYCON housing type B6 to B48, HC-M-B...MF-... module carrier frame required |

### 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-05-T |
| Application | Power |
| Number of positions | 5 |
| Connection profile | 5 |
| Contact numbering | 1 - 5 |
| Number of connections per position | 2 |
| Number of module slots | 1 |
| No. of power contacts | 5 |
| No. of control contacts | 0 |
| Contact material type | rolled |

#### Insulation characteristics

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

### Connection data

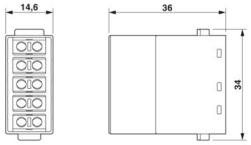
#### Connection technology

| | |
|---|---|
| Connection technology | Push-in connection |
| Number of connections per position | 2 |

#### Conductor connection

| | |
|---|---|
| Conductor cross-section | 0.25 mm² ... 1.5 mm² |
| Connection cross section AWG | 24 ... 16 |
| Stripping length of the individual wire | 8 mm ±1 mm |

### Dimensions

| | |
|---|---|
| Dimensional drawing |   |
| Width | 34 mm |
| Height | 36 mm |
| Length | 14.6 mm |

Mechanical characteristics

| | |
|---|---|
| Contact diameter | 2.5 mm |

## Electrical properties

| | |
|---|---|
| Rated voltage (III/3) | 230 V (Conductor-PE) |
| | 400 V (Conductor-Conductor) |
| Rated voltage for power contacts | 230/400 V |
| Rated surge voltage | 4 kV |
| Rated current | 16 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 | PA |

## Environmental and real-life conditions

Ambient conditions

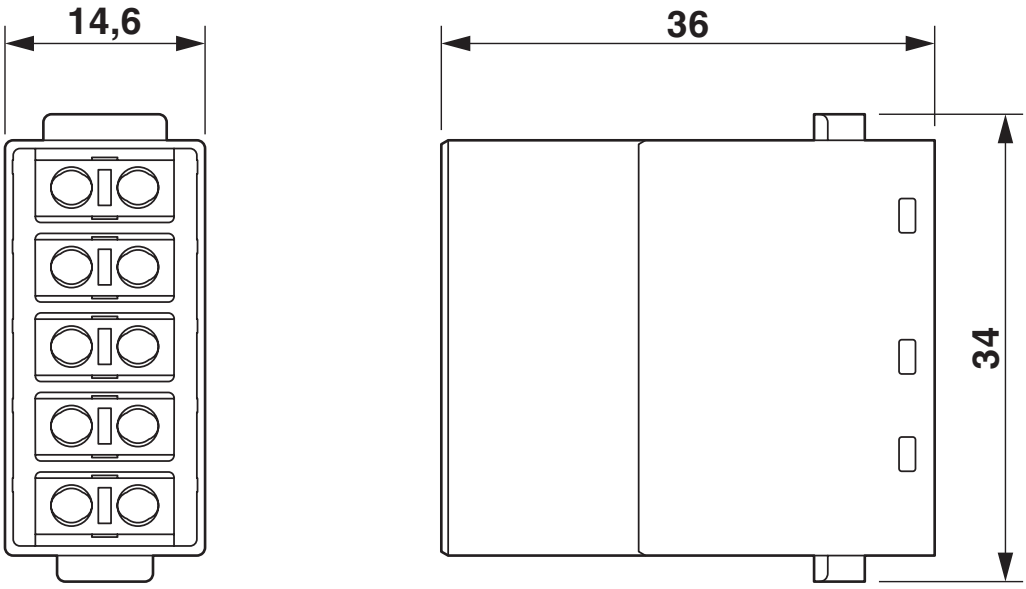
| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 125 °C |

## Standards and regulations

| | |
|---|---|
| Constructional and testing regulations | DIN EN 61984 |
| | DIN EN 60664 |
| Tests | DIN EN 61984 |
| | DIN EN 60664 |
| Standards/regulations | PA: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

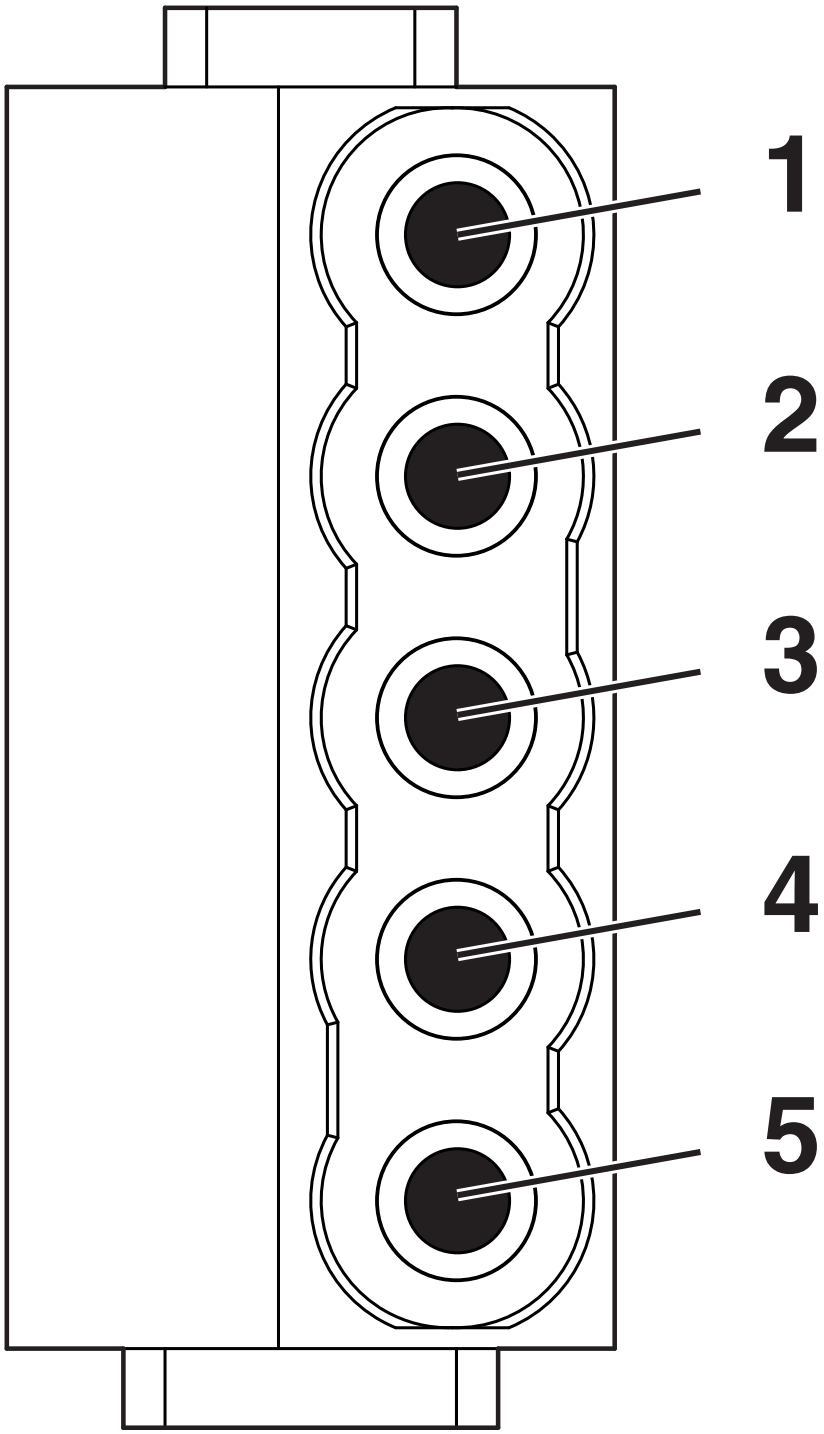
## Drawings

Dimensional drawing



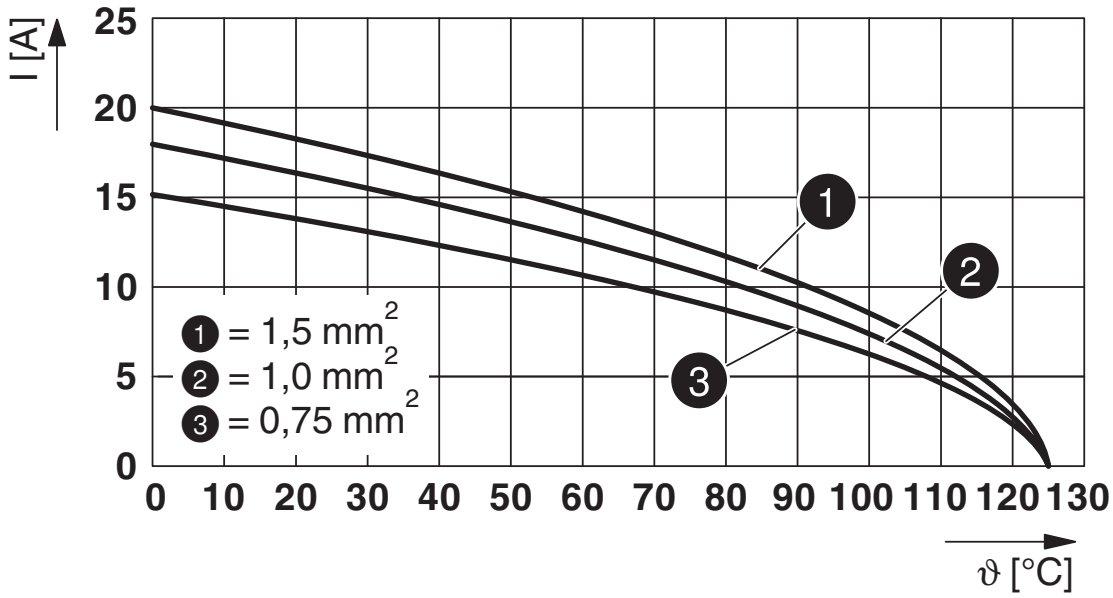

Dimensional drawing

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/1423961

**UL Recognized**
Approval ID: E468743

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 16 A | - | - |

**CSA**
Approval ID: 158887

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 12 A | - 16 | - |

**UL Recognized**
Approval ID: E118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 16 A | - | - |

**VDE Zeichengenehmigung**
Approval ID: 40050148

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 400 V | 10 A | - | 0.25 - 2.5 |

## 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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