

# HC-M-03/04-CT-F - Contact insert module



1414365

<https://www.phoenixcontact.com/us/products/1414365>

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Contact insert module, number of positions: 3+4, power contacts: 3, control contacts: 4, Socket, Crimp connection, 500 V, 40 A, 1.5 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Power/signal

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1414365       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF62          |
| Product key                          | AF7ACE        |
| GTIN                                 | 4055626025087 |
| Weight per piece (including packing) | 9.3 g         |
| Weight per piece (excluding packing) | 9.5 g         |
| Customs tariff number                | 85389099      |
| Country of origin                    | PL            |

## Technical data

### Mounting

|               |   |
|---------------|---|
| Assembly note | To ensure correct use, installation in housing with IP54 protection or better is required   |
|               | The module cannot be used simultaneously with HC-B...-TMB-SD-IP65 and HC-B...-TMS-SD-IP65 protective covers. Not suitable for CK1,6-ED-...POF fiber optic contacts. |

### Product properties

|                         |                          |
|-------------------------|--------------------------|
| Product type            | Modular contact insert   |
| Series                  | HC-M-03/04               |
| Application             | Power/signal             |
| Number of positions     | 7                        |
| Connection profile      | 3+4                      |
| Contact numbering       | 1 - 3 (power contacts)   |
|                         | 1 - 4 (control contacts) |
| Number of module slots  | 1                        |
| No. of power contacts   | 3                        |
| No. of control contacts | 4                        |
| Contact material type   | turned                   |

### Insulation characteristics

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

### Connection data


#### Connection technology

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

#### Conductor connection

|   |   |
|---|---|
| Conductor cross-section                 | 1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> (power contacts)      |
|   | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (control contacts) |
| Connection cross section AWG            | 16 ... 10 (power contacts)                                      |
|   | 26 ... 14 (control contacts)                                    |
| Stripping length of the individual wire | 9 mm (14 mm (4 mm <sup>2</sup> ... 6 mm <sup>2</sup> ))         |
|   | 6 mm (6 mm (2,5 mm <sup>2</sup> ))                              |

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 34.2 mm  |

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|        |         |
|--------|---------|
| Height | 39.1 mm |
| Length | 14.6 mm |

## Mechanical characteristics

|                        |       |
|------------------------|-------|
| Minimum housing height | 52 mm |
| Contact diameter       | 4 mm  |

## Electrical properties

|                                |                          |
|--------------------------------|--------------------------|
| Rated voltage (III/2) contacts | 960 V (control contacts) |
| Rated voltage (III/3)          | 500 V (power contacts)   |
|                                | 690 V (control contacts) |
| Rated surge voltage (III/2)    | 8 kV                     |
| Rated surge voltage (III/3)    | 6 kV                     |
| Rated surge voltage            | 8 kV (power contacts)    |
|                                | 8 kV (control contacts)  |
| Rated current                  | 40 A (power contacts)    |
|                                | 10 A (control contacts)  |
| 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                    |
| Material of contact surface, power contact   | Ag                    |
| Material of contact surface, control contact | Ag (alternatively Au) |
| Standards/regulations                        | PC                    |

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### Testing

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

# HC-M-03/04-CT-F - Contact insert module

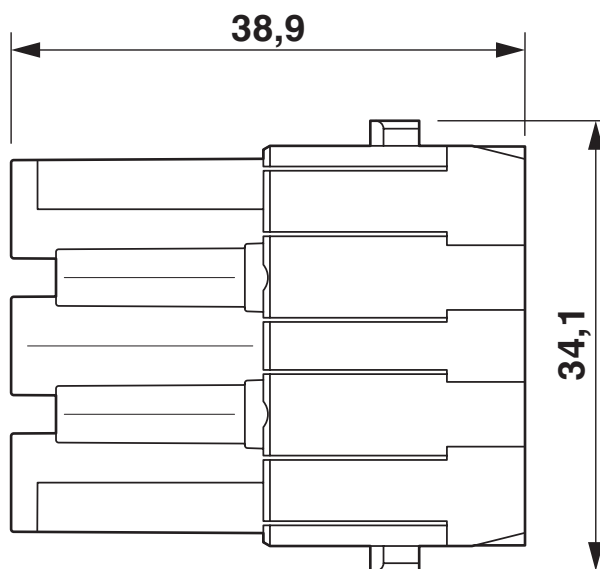
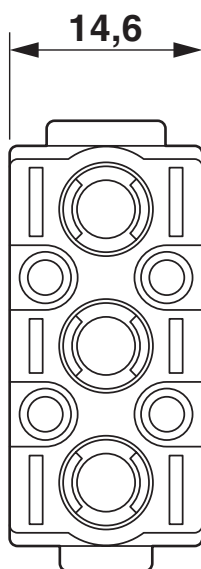


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## Drawings

Dimensional drawing



Female insert

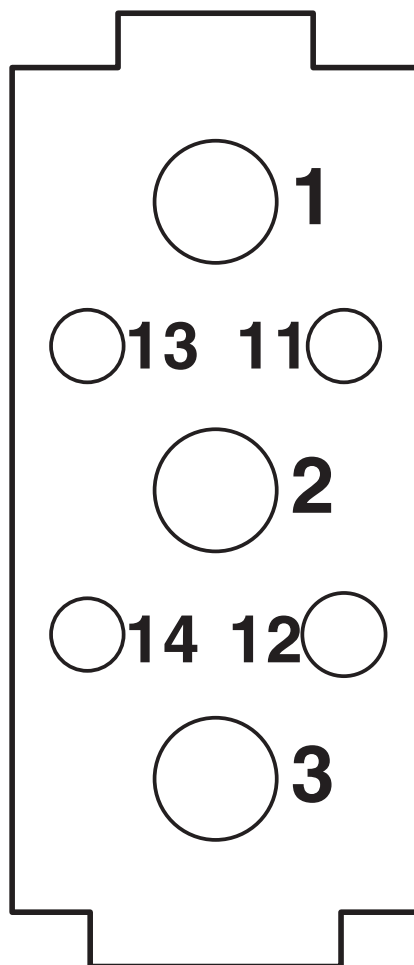
# HC-M-03/04-CT-F - Contact insert module



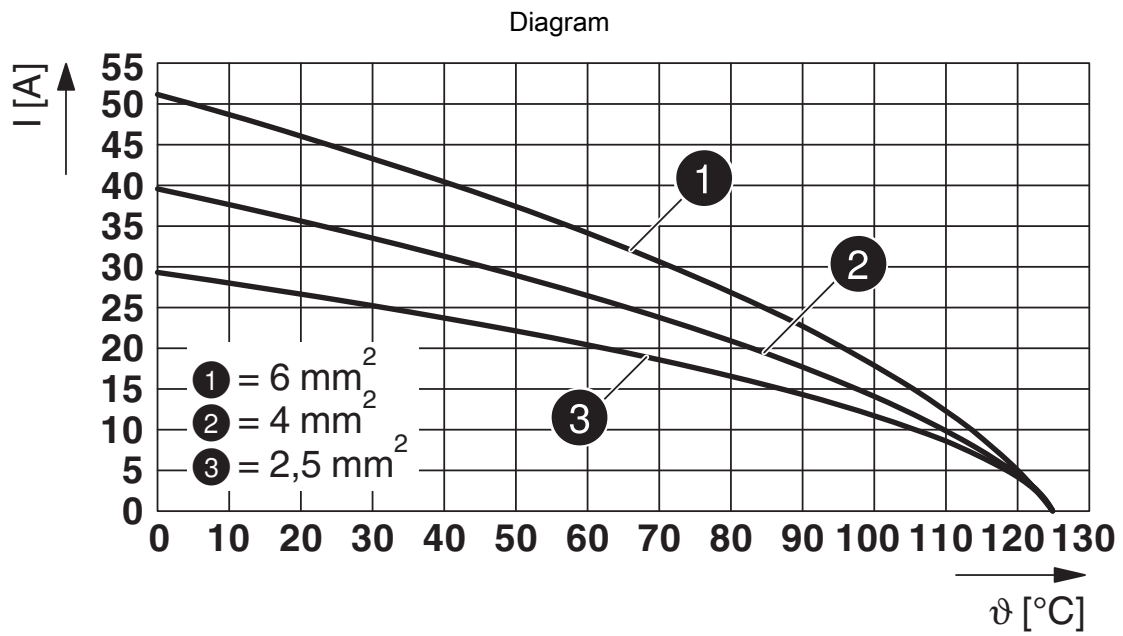
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Schematic diagram



Connector pin assignment, connection side



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414365>

### 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                 | 33 A                  | - 10              | -                    |



### 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              | -                    |



### UL Recognized

Approval ID: E468743



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Approval ID: E468743

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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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 | 0.064 kg CO2e |
|---------|---------------|

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