

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Contact insert module, number of positions: 6, power contacts: 6, control contacts: 0, Socket, Crimp connection, 500 V, 16 A, 0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>, application: Power

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1414369             |
| Packing unit                         | 5 pc                |
| Minimum order quantity               | 5 pc                |
| Sales key                            | BF62                |
| Product key                          | BF7ACE              |
| Catalog page                         | Page 579 (C-2-2019) |
| GTIN                                 | 4055626025223       |
| Weight per piece (including packing) | 8.76 g              |
| Weight per piece (excluding packing) | 8.48 g              |
| Customs tariff number                | 85389099            |
| Country of origin                    | PL                  |

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## Technical data

### Notes

|         |                                                                                                                                                               |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | For HEAVYCON housing type B6 to B48, HC-M-B...MF-... hinged module carrier frame required, CK2,5-ED... imp 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-06                |
| Application             | Power                  |
| Number of positions     | 6                      |
| Connection profile      | 6                      |
| Contact numbering       | 1 - 6                  |
| Number of module slots  | 1                      |
| No. of power contacts   | 6                      |
| No. of control contacts | 0                      |
| Contact material type   | turned                 |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### Insulation characteristics

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

### Connection data

#### Connection technology

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

#### Conductor connection

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Conductor cross section                 | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Connection cross section AWG            | 20 ... 12                                 |
| Stripping length of the individual wire | 7.5 mm                                    |

### Dimensions

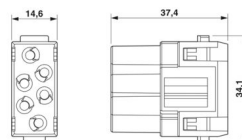
# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## Dimensional drawing



|        |         |
|--------|---------|
| Width  | 34.2 mm |
| Height | 37.4 mm |
| Length | 14.6 mm |

## Mechanical characteristics

|                        |        |
|------------------------|--------|
| Minimum housing height | 52 mm  |
| Contact diameter       | 2.5 mm |

## Electrical properties

|                                |       |
|--------------------------------|-------|
| Rated voltage (III/2) contacts | 830 V |
| Rated voltage (III/3)          | 500 V |
| Rated surge voltage            | 8 kV  |
| Rated current                  | 16 A  |

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

## 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-06P-CT-F - Contact insert module

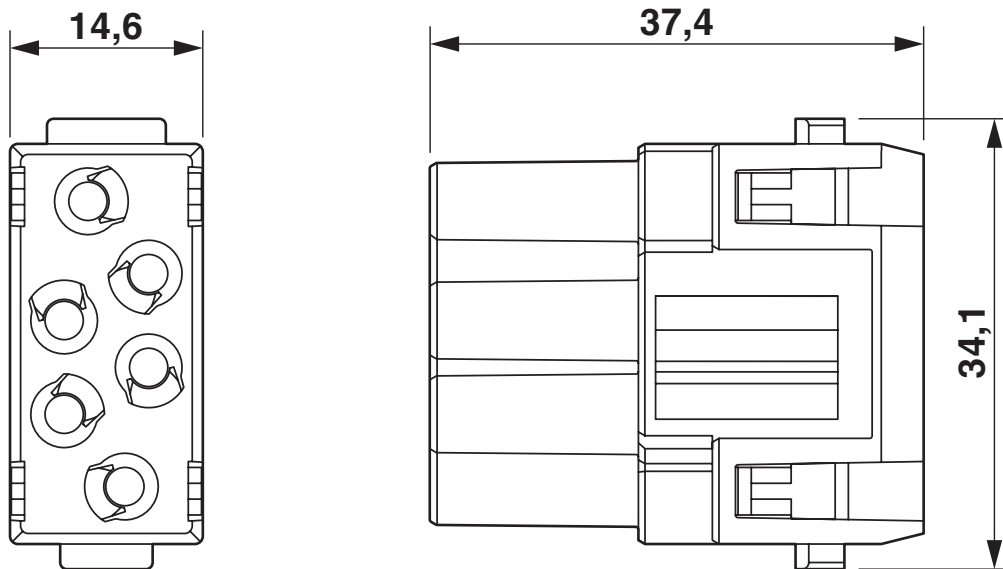


1414369

<https://www.phoenixcontact.com/us/products/1414369>

## Drawings

Dimensional drawing



Female insert

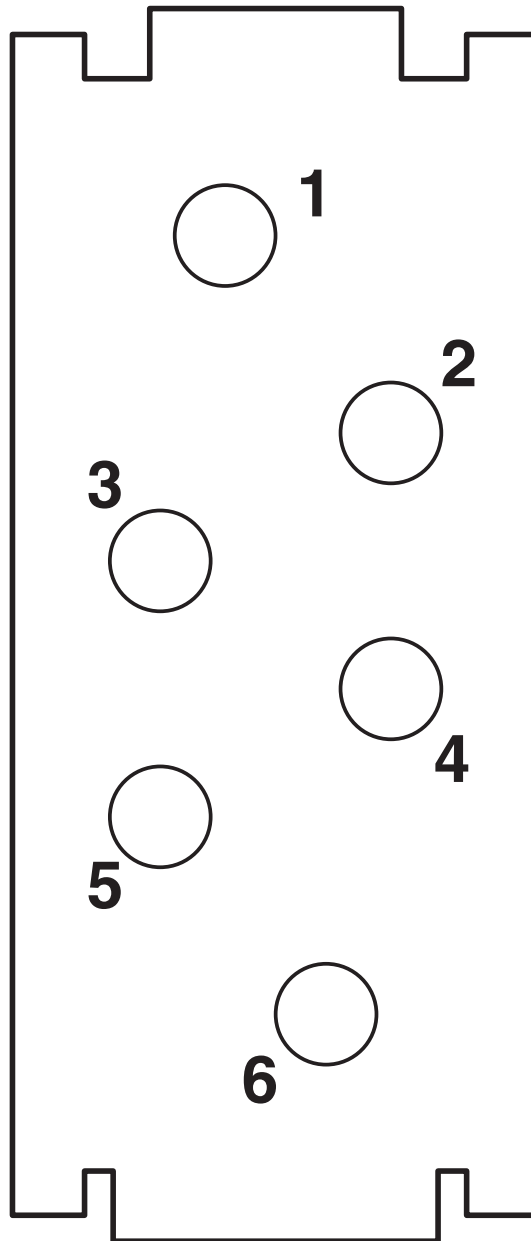
# HC-M-06P-CT-F - Contact insert module

1414369

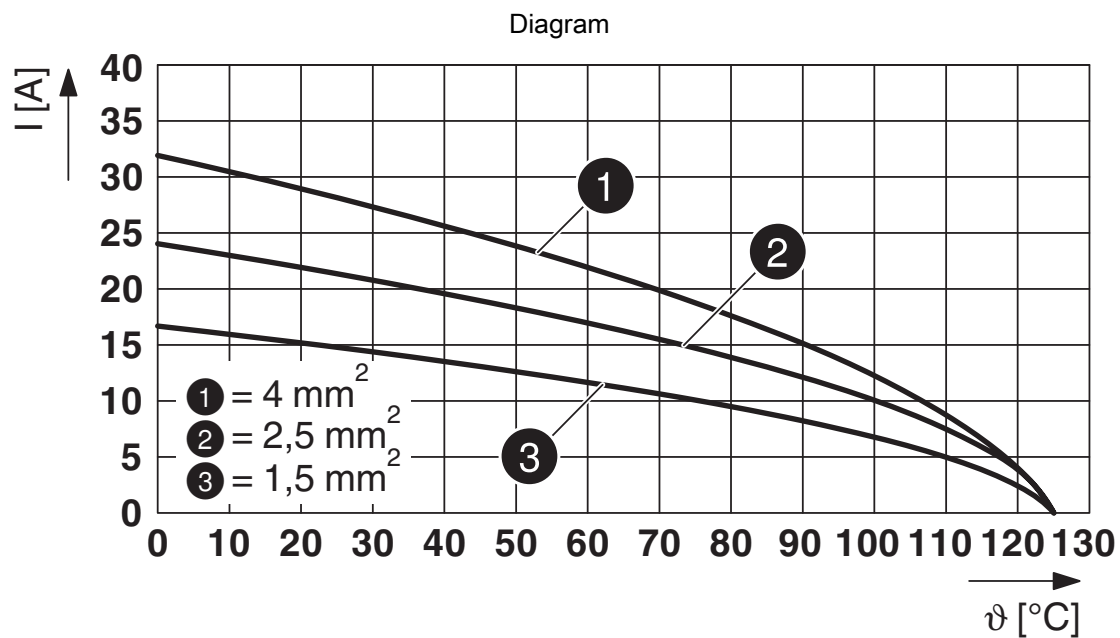
<https://www.phoenixcontact.com/us/products/1414369>



Schematic diagram



Connector pin assignment, connection side



Derating diagram

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414369>

|                                                             |  |  |  |  |
|-------------------------------------------------------------|--|--|--|--|
| <div><div>DNV</div><div>Approval ID: TAE000037S</div></div> |  |  |  |  |
|-------------------------------------------------------------|--|--|--|--|

|                                                                                                                                          |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <div><div> CSA</div><div>Approval ID: 13631</div></div> |                       |                       |                   |                             |
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                          | 600 V                 | 18 A                  | - 12              | -                           |

|                                                                                                                                                      |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <div><div> UL Recognized</div><div>Approval ID: E118976</div></div> |                       |                       |                   |                             |
|                                                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                                      | 600 V                 | 24 A                  | - 12              | -                           |

|                                                                                                                                                           |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <div><div> EAC</div><div>Approval ID: RU C-DE.BL08.B.00511</div></div> |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440217 |
| ECLASS-12.0 | 27440217 |
| ECLASS-13.0 | 27440217 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000438 |
|----------|----------|

### UNSPSC

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

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## 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%               |

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## Accessories

### HC-CBU-MOD - Coding element

1636130

<https://www.phoenixcontact.com/us/products/1636130>



Coding socket for coding up to 16 connectors, for HC Modular

---

### HC-CST-MOD - Coding element

1636127

<https://www.phoenixcontact.com/us/products/1636127>



Coding peg for coding up to 16 connectors, for HC Modular

## HC-M-06P-CT-F - Contact insert module

1414369

<https://www.phoenixcontact.com/us/products/1414369>



## HC-CP-CK2.5-PL - Coding element

1095419

<https://www.phoenixcontact.com/us/products/1095419>

Dummy socket for contact carrier with turned CK 2,5-ED... socket contacts. For HC-A../HC-BB../HC-M... series contact inserts.



---

## HC-M-MHR-PE16 - Cable lug

1636981

<https://www.phoenixcontact.com/us/products/1636981>

Cable lug for HEAVYCON-MODULAR; PE connection extension to 16 mm<sup>2</sup>, for crimping with crimp pliers



# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK2,5-ED-0,50BU AG - Crimp contact

1663640

<https://www.phoenixcontact.com/us/products/1663640>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

---

## CK2,5-ED-0,75BU AG - Crimp contact

1663653

<https://www.phoenixcontact.com/us/products/1663653>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK2,5-ED-1,00BU AG - Crimp contact

1663666

<https://www.phoenixcontact.com/us/products/1663666>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

---

## CK2,5-ED-1,50BU AG - Crimp contact

1663679

<https://www.phoenixcontact.com/us/products/1663679>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK2,5-ED-2,50BU AG - Crimp contact

1663682

<https://www.phoenixcontact.com/us/products/1663682>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

---

## CK2,5-ED-3,00BU AG - Crimp contact

1663695

<https://www.phoenixcontact.com/us/products/1663695>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 3 mm<sup>2</sup> ... 3 mm<sup>2</sup>, AWG 12

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK2,5-ED-4,00BU AG - Crimp contact

1663705

<https://www.phoenixcontact.com/us/products/1663705>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm<sup>2</sup> ... 4 mm<sup>2</sup>, AWG 12

---

## CK2,5-ED-0,50F AG - Crimp contact

1273612

<https://www.phoenixcontact.com/us/products/1273612>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK2,5-ED-0,75F AG - Crimp contact

1273611

<https://www.phoenixcontact.com/us/products/1273611>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.75 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

---

## CK2,5-ED-1,00F AG - Crimp contact

1273610

<https://www.phoenixcontact.com/us/products/1273610>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK2,5-ED-1,50F AG - Crimp contact

1273609

<https://www.phoenixcontact.com/us/products/1273609>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

---

## CK2,5-ED-2,50F AG - Crimp contact

1273607

<https://www.phoenixcontact.com/us/products/1273607>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK2,5-ED-3,00F AG - Crimp contact

1273606

<https://www.phoenixcontact.com/us/products/1273606>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 3 mm<sup>2</sup> ... 3 mm<sup>2</sup>, AWG 12

---

## CK2,5-ED-4,00F AG - Crimp contact

1273604

<https://www.phoenixcontact.com/us/products/1273604>



Crimp contact, contact diameter: 2.5 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 4 mm<sup>2</sup> ... 4 mm<sup>2</sup>, AWG 12

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK1,6-ED-0,37BU AU - Crimp contact

1674969

<https://www.phoenixcontact.com/us/products/1674969>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm<sup>2</sup> ... 0.37 mm<sup>2</sup>, AWG 26 ... 22

---

## CK1,6-ED-0,50BU AU - Crimp contact

1674480

<https://www.phoenixcontact.com/us/products/1674480>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK1,6-ED-0,75BU AU - Crimp contact

1672440

<https://www.phoenixcontact.com/us/products/1672440>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.75 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

---

## CK1,6-ED-1,00BU AU - Crimp contact

1674943

<https://www.phoenixcontact.com/us/products/1674943>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

# HC-M-06P-CT-F - Contact insert module



1414369

<https://www.phoenixcontact.com/us/products/1414369>

## CK1,6-ED-1,50BU AU - Crimp contact

1674930

<https://www.phoenixcontact.com/us/products/1674930>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

---

## CK1,6-ED-2,50BU AU - Crimp contact

1674985

<https://www.phoenixcontact.com/us/products/1674985>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

# HC-M-06P-CT-F - Contact insert module

1414369

<https://www.phoenixcontact.com/us/products/1414369>



## CK1,6-ED-BU-POF - Female contact

1885004

<https://www.phoenixcontact.com/us/products/1885004>



POF fiber optic socket contact, turned, for contact carriers (HC-DD...I-CT.../ HC-M-12-CT-F.../ HC-M-17-CT-F...) of CK1,6-ED... contacts

---

## HC-M-B06-MFH-B - Module carrier frame

1182085

<https://www.phoenixcontact.com/us/products/1182085>



Module carrier frame, size: B6, type : for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame

# HC-M-06P-CT-F - Contact insert module

1414369

<https://www.phoenixcontact.com/us/products/1414369>



## HC-M-B10-MFH-B - Module carrier frame

1182088

<https://www.phoenixcontact.com/us/products/1182088>



Module carrier frame, size: B10, type : for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame

---

## HC-M-B16-MFH-B - Module carrier frame

1182090

<https://www.phoenixcontact.com/us/products/1182090>



Module carrier frame, size: B16, type : for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame

# HC-M-06P-CT-F - Contact insert module

1414369

<https://www.phoenixcontact.com/us/products/1414369>



## HC-M-B24-MFH-B - Module carrier frame

1182094

<https://www.phoenixcontact.com/us/products/1182094>

Module carrier frame, size: B24, type : for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame



---

## HC-M-B06-MFH-H - Module carrier frame

1182087

<https://www.phoenixcontact.com/us/products/1182087>

Module carrier frame, size: B6, type : for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame



# HC-M-06P-CT-F - Contact insert module

1414369

<https://www.phoenixcontact.com/us/products/1414369>



## HC-M-B10-MFH-H - Module carrier frame

1182089

<https://www.phoenixcontact.com/us/products/1182089>

Module carrier frame, size: B10, type : for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ...  
6 mm<sup>2</sup>, application: Module carrier frame



---

## HC-M-B16-MFH-H - Module carrier frame

1182093

<https://www.phoenixcontact.com/us/products/1182093>

Module carrier frame, size: B16, type : for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ...  
6 mm<sup>2</sup>, application: Module carrier frame



## HC-M-06P-CT-F - Contact insert module

1414369

<https://www.phoenixcontact.com/us/products/1414369>



## HC-M-B24-MFH-H - Module carrier frame

1182095

<https://www.phoenixcontact.com/us/products/1182095>

Module carrier frame, size: B24, type : for the sleeve side (A, B, C, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame



---

## HC-M-06P-CT-M - Contact insert module

1414368

<https://www.phoenixcontact.com/us/products/1414368>



Contact insert module, number of positions: 6, power contacts: 6, control contacts: 0, Pin, Crimp connection, 500 V, 16 A, 0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>, application: Power

# HC-M-06P-CT-F - Contact insert module

1414369

<https://www.phoenixcontact.com/us/products/1414369>



## UNIFOX RT-CK 2.5 - Contact removal tool

1072067

<https://www.phoenixcontact.com/us/products/1072067>

Contact removal tool, for turned CK 2,5... contacts



---

## UNIFOX MT-CK 1.6/2.5 - Assembly tool

1089092

<https://www.phoenixcontact.com/us/products/1089092>

Assembly tool, for CK 1.6... crimp contacts for small conductor cross sections



---

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)