

HC-M-03-CT-F - Contact insert module



1414359

<https://www.phoenixcontact.com/us/products/1414359>

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Contact insert module, number of positions: 3, power contacts: 3, control contacts: 0, Socket, Crimp connection, 500 V, 40 A, 1.5 mm² ... 6 mm², application: Power

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1414359 |
| Packing unit | 5 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF62 |
| Product key | AF7ACE |
| GTIN | 4055626025025 |
| Weight per piece (including packing) | 12.84 g |
| Weight per piece (excluding packing) | 12.94 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 | <p>To ensure correct use, installation in housing with IP54 protection or better is required</p> <p>The UNIFOX RT-CK 4.0 tool (Item No. 1072064) is required for removing the crimp contacts.</p> <p>At every "C" contact chamber, the position of the contact retaining springs is marked with two black markings on the connection side. From the connection side, the tool is pushed over the contact in a position-oriented manner, so that it touches both the retaining springs. Then insert it up to the limit stop. Do not turn the inserted tool. Push the conductor out of the insulating body along with the tool from the connection side.</p> |
|---------------|---|

Product properties

| | |
|-------------------------|------------------------|
| Product type | Modular contact insert |
| Series | HC-M-03 |
| Application | Power |
| Number of positions | 3 |
| Connection profile | 3 |
| Contact numbering | 1 - 3 |
| Number of module slots | 1 |
| No. of power contacts | 3 |
| 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 mm ² ... 6 mm ² |
| Connection cross section AWG | 16 ... 8 |
| Stripping length of the individual wire | 9 mm (for 1.5 mm ² ... 2.5 mm ²) |

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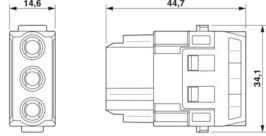


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14 mm (for 4 mm² ... 6 mm²)

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 34.2 mm |
| Height | 44.7 mm |
| Length | 14.6 mm |

Mechanical characteristics

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

Electrical properties

| | |
|--------------------------------|----------------|
| Rated voltage (III/2) contacts | 830 V |
| Rated voltage (III/3) | 500 V |
| Rated surge voltage (III/2) | 8 kV |
| Rated surge voltage (III/3) | 6 kV |
| Rated surge voltage | 6 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 |
| 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) |
|-----------------------|---|

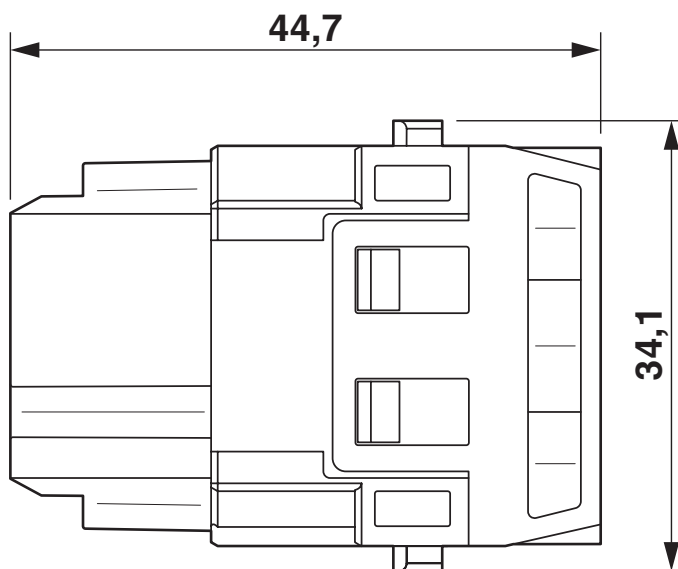
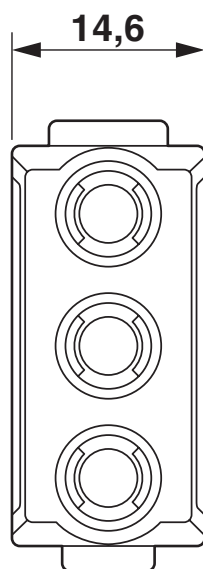
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Drawings

Dimensional drawing



Female insert

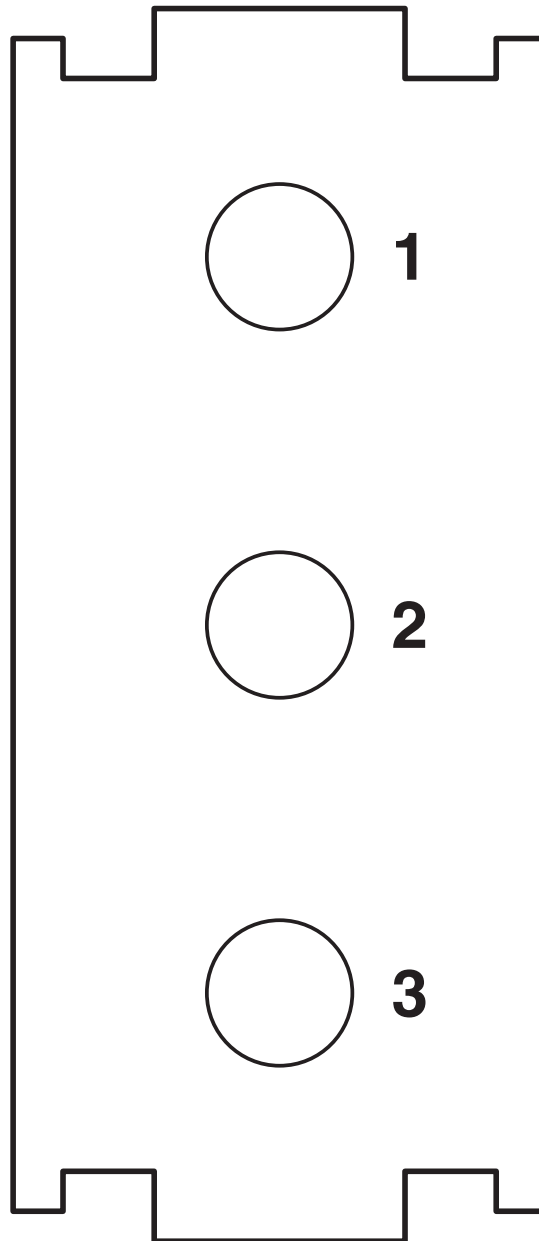
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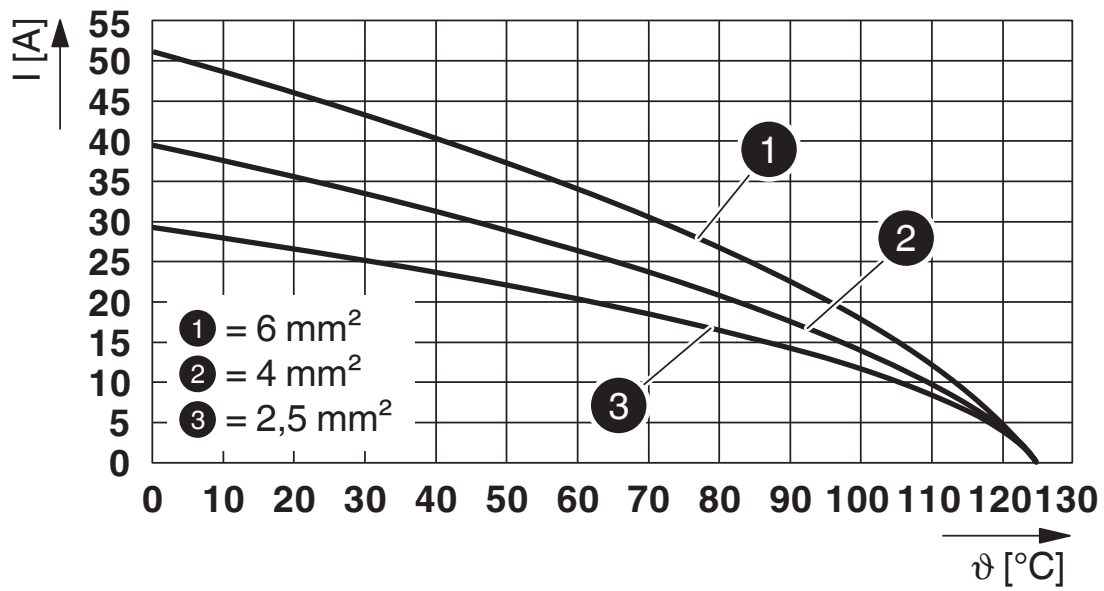
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Schematic diagram



Connector pin assignment, connection side

Diagram



Derating diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414359>

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 | | | | |
| | 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 | - | - |

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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 | 0.062 kg CO2e |
|---------|---------------|

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