

HC-M-02-CT-F - Contact insert module



1414361

<https://www.phoenixcontact.com/us/products/1414361>

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Contact insert module, number of positions: 2, power contacts: 2, control contacts: 0, Socket, Crimp connection, 830 V, 40 A, 1.5 mm² ... 10 mm², application: Power

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1414361 |
| Packing unit | 5 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF62 |
| Product key | AF7ACE |
| GTIN | 4055626025049 |
| Weight per piece (including packing) | 10.423 g |
| Weight per piece (excluding packing) | 10.423 g |
| Customs tariff number | 85389099 |
| Country of origin | PL |

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Technical data

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-02 |
| Application | Power |
| Number of positions | 2 |
| Connection profile | 2 |
| Contact numbering | 1 - 2 |
| Number of module slots | 1 |
| No. of power contacts | 2 |
| No. of control contacts | 0 |
| Contact material type | turned |

Insulation characteristics

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

Connection data

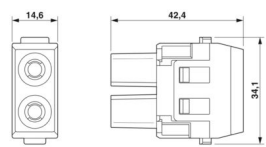
Connection technology

| | |
|----------------------------------|------------------|
| Connection technology | Crimp connection |
| Connection in acc. with standard | IEC / EN |

Conductor connection

| | |
|---|---|
| Conductor cross-section | 1.5 mm ² ... 10 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) |
| | 14 mm (for 4 mm ² ... 6 mm ²) |
| | 14 mm (for 10 mm ²) |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 34.2 mm |
| Height | 42.4 mm |
| Length | 14.6 mm |

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Mechanical characteristics

| | |
|------------------|------|
| Contact diameter | 4 mm |
|------------------|------|

Electrical properties

| | |
|--------------------------------|----------------|
| Rated voltage (III/2) contacts | 1000 V |
| Rated voltage (III/3) | 830 V |
| Rated surge voltage (III/2) | 8 kV |
| Rated surge voltage (III/3) | 8 kV |
| Rated surge voltage | 8 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) |
|-----------------------|---|

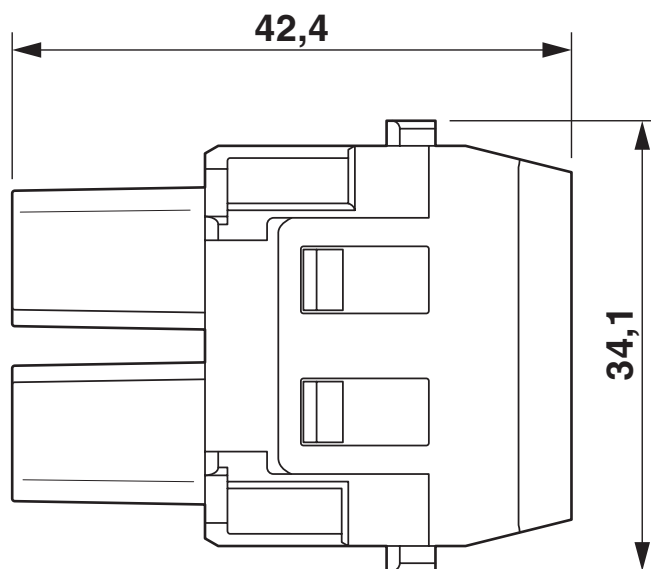
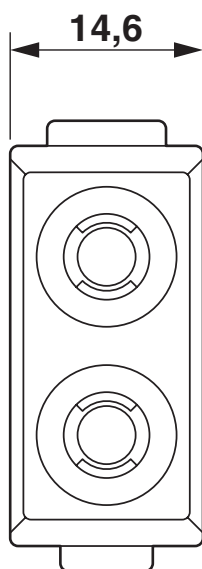
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Drawings

Dimensional drawing



Female insert

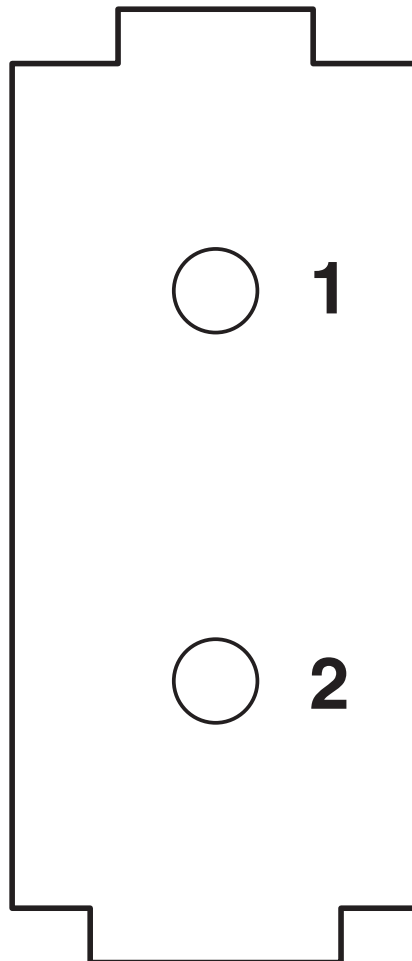
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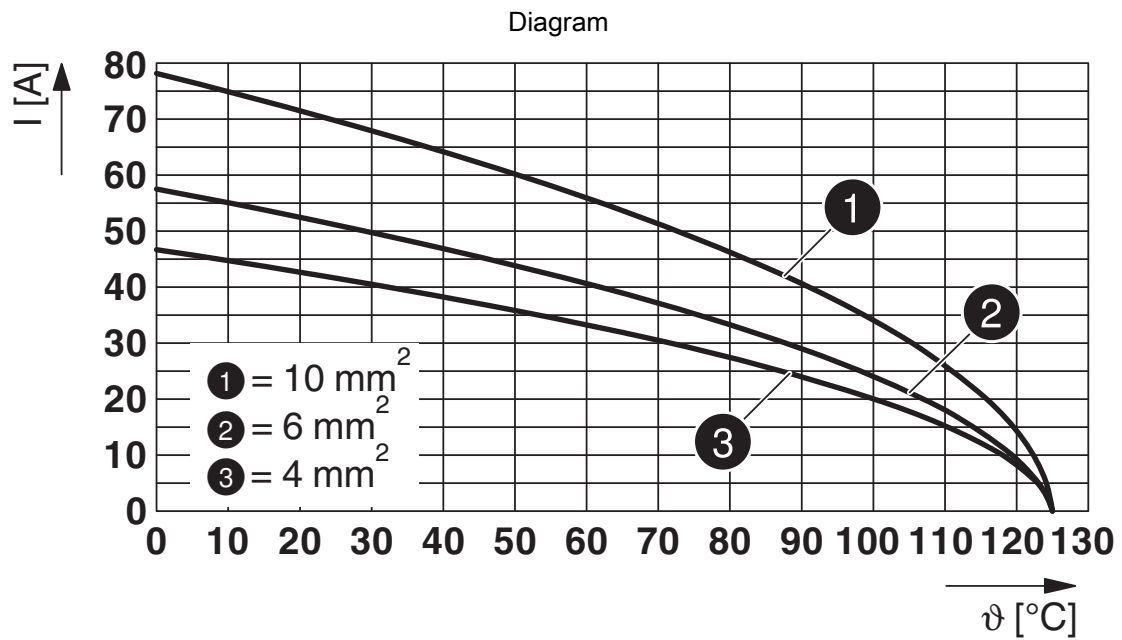
Schematic diagram



Connector pin assignment, connection side

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Derating diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414361>

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 | 34 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 | 0.07 kg CO2e |
|---------|--------------|

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