

HC-M-01-AT-M-40 - Contact insert module



1417381

<https://www.phoenixcontact.com/us/products/1417381>

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Contact insert module, number of positions: 1, power contacts: 1, control contacts: 0, Pin, Axial screw connection, 1000 V, 200 A, 6 mm² ... 70 mm², application: Power

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1417381 |
| Packing unit | 2 pc |
| Minimum order quantity | 2 pc |
| Sales key | BF62 |
| Product key | AF7ACE |
| GTIN | 4055626112626 |
| Weight per piece (including packing) | 69 g |
| Weight per piece (excluding packing) | 63.8 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

Technical data

Mounting

| | |
|-------------------------|--|
| <p>Assembly note</p> | <p>To ensure correct use, installation in housing with IP54 protection or better is required</p> |
| | <p>Note regarding axial connection technology:</p> <p>For flexible wires only. The specified conductor cross-sections refer to the geometric cross-section of the cable used. Use of cables with a geometric cross-section that differs greatly from the nominal cross-section of the cable should be checked before use.</p> <p>The wiring space for axial screw technology is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) should be checked before use.</p> <p>Assembly note</p> <p>Before assembly, ensure that the tapered screw is turned back all the way (chamber is open). Twisting the cables is not permitted. The wires must be inserted as far as they will go into the contact chamber (until the insulation touches the contact). Hold the wires in position and use the socket wrench to tighten. The used wire end should be cut off before connecting again. The connection screw may only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically supported at an appropriate distance from the connection point (e.g., when used in a sheet metal cut-out). DIN VDE 0100-520:2003-06 provides information on the correct way to do this. Unused connections must be tightened with maximum torque. Shrink the shrink sleeve over the connection point and the conductor. Temperature > 80°C.</p> |
| <p>Hexagonal socket</p> | <p>SW 5</p> |

Product properties

| | |
|-------------------------|------------------------|
| Product type | Modular contact insert |
| Series | HC-M-HS |
| Application | Power |
| Number of positions | 1 |
| Connection profile | 1 |
| Number of module slots | 2 |
| No. of power contacts | 1 |
| No. of control contacts | 0 |

Insulation characteristics

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

Connection data

Connection technology

| | |
|-----------------------|------------------------|
| Connection technology | Axial screw connection |
|-----------------------|------------------------|

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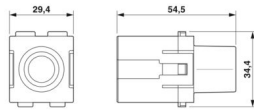
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Conductor connection

| | |
|---|--|
| Conductor cross-section | 6 mm ² ... 70 mm ² (The cross section specification refers to the geometric cross section of the cable used) |
| Connection cross section AWG | 10 ... 0 |
| Tightening torque | 4 Nm ... 6 Nm (6 mm ² ... 10 mm ²) |
| | 6 Nm ... 8 Nm (16 mm ² ... 25 mm ²) |
| | 8 Nm ... 10 Nm (35 mm ² ... 70 mm ²) |
| Stripping length of the individual wire | 15 mm (with an outside conductor diameter up to 12 mm) |
| | 19 mm (with an outside conductor diameter up to 16 mm) |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 34.2 mm |
| Height | 54.5 mm |
| Length | 29.4 mm |

Mechanical characteristics

| | |
|------------------------|--------|
| Minimum housing height | 72 mm |
| Contact diameter | 9.5 mm |

Electrical properties

| | |
|-----------------------|----------------|
| Rated voltage (III/3) | 1000 V |
| Rated surge voltage | 8 kV |
| Rated current | 200 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 |
|---------------------------------|-------------------|

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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)

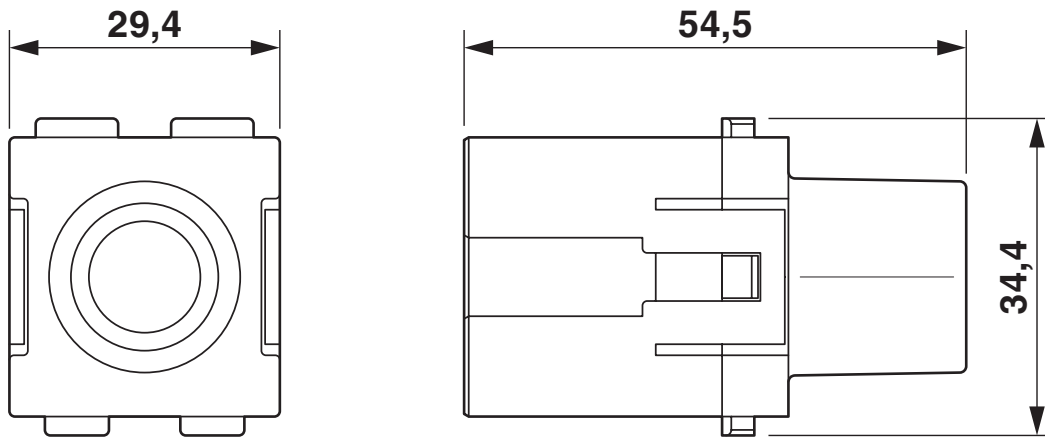
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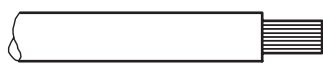
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Drawings

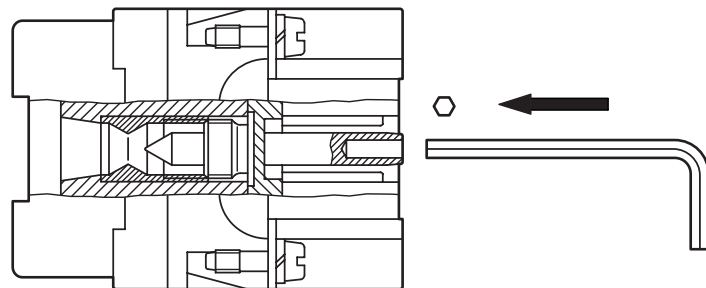
Dimensional drawing



Male insert



Schematic diagram



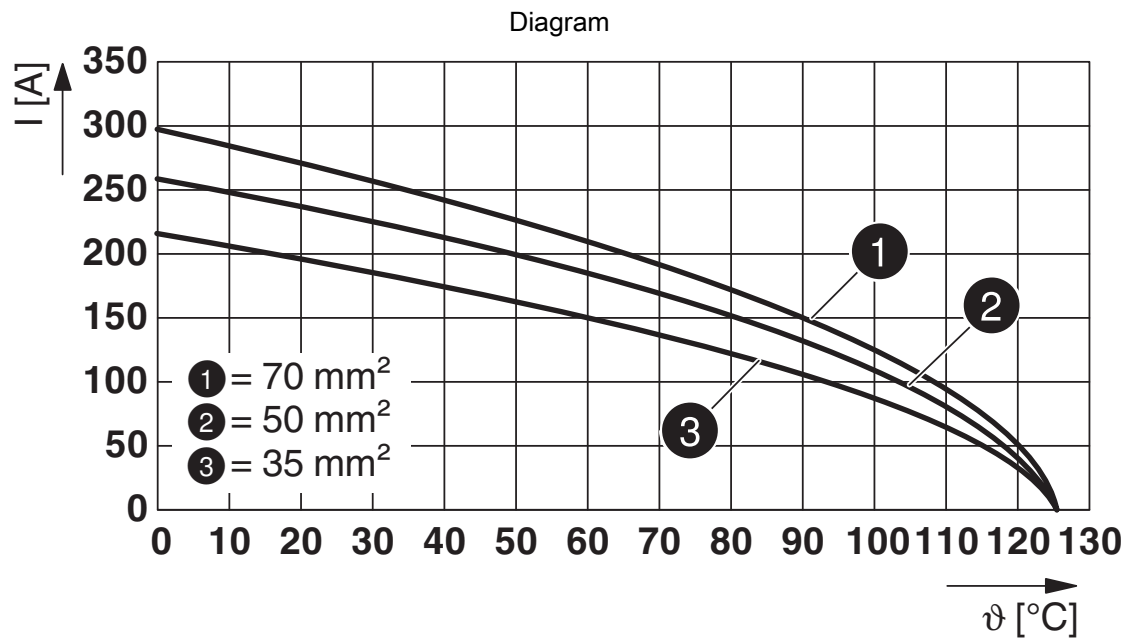
Axial screw connection

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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/1417381>

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 | 116 A | - 00 | - |



UL Recognized

Approval ID: E118976

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 600 V | 146 A | - 00 | - |



UL Recognized

Approval ID: E468743

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 600 V | 146 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 | 0.53 kg CO2e |
|---------|--------------|

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