

HC-M-02-CT-M-HV-16 - Contact insert module



1417408

<https://www.phoenixcontact.com/us/products/1417408>

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Contact insert module, number of positions: 2, power contacts: 2, control contacts: 0, Pin, Crimp connection, 2900 V/5000 V, 16 A, 0.5 mm² ... 4 mm², application: High-voltage

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1417408 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF62 |
| Product key | AF7ACE |
| GTIN | 4055626112732 |
| Weight per piece (including packing) | 55.8 g |
| Weight per piece (excluding packing) | 54 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 |
| | Assembly procedure: - Strip wire 9.5 mm, - connect the stripped part of the wire through the locking sleeve (for wire diameter > 3.2 mm), - crimp wire (with protracted locking sleeve) with CK2.5...ED crimp contact, - lock the locking sleeve with the crimp contact together with the module's insulating body. |

Product properties

| | |
|-------------------------|------------------------|
| Product type | Modular contact insert |
| Series | HC-M-HV |
| Application | High-voltage |
| Number of positions | 2 |
| Connection profile | 2 |
| Contact numbering | I, II |
| Number of module slots | 2 |
| 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 |
|-----------------------|------------------|

Conductor connection

| | |
|---|---|
| Conductor cross-section | 0.5 mm ² ... 4 mm ² |
| Connection cross section AWG | 20 ... 12 |
| Stripping length of the individual wire | 9.5 mm |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 34.1 mm |
| Height | 61.3 mm |

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| | |
|--------|---------|
| Length | 29.3 mm |
|--------|---------|

Mechanical characteristics

| | |
|------------------------|--------|
| Minimum housing height | 72 mm |
| Contact diameter | 2.5 mm |

Electrical properties

| | |
|----------------------------------|------------------------------|
| Rated voltage (III/3) | 2900 V (Conductor-PE) |
| | 5000 V (Conductor-Conductor) |
| Rated voltage for power contacts | 2900/5000 V |
| Rated surge voltage | 15 kV |
| Rated current | 16 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 (alternatively Au) |
| 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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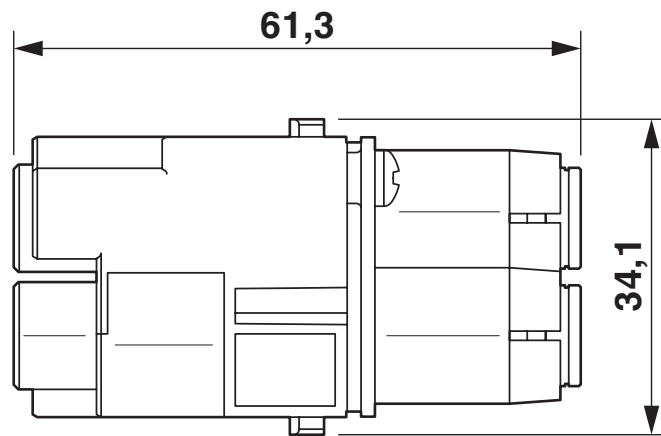
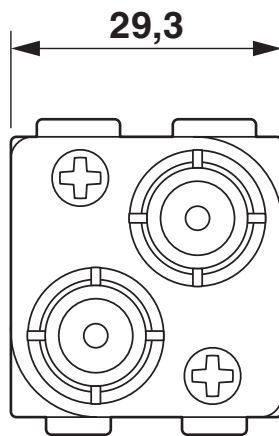


1417408

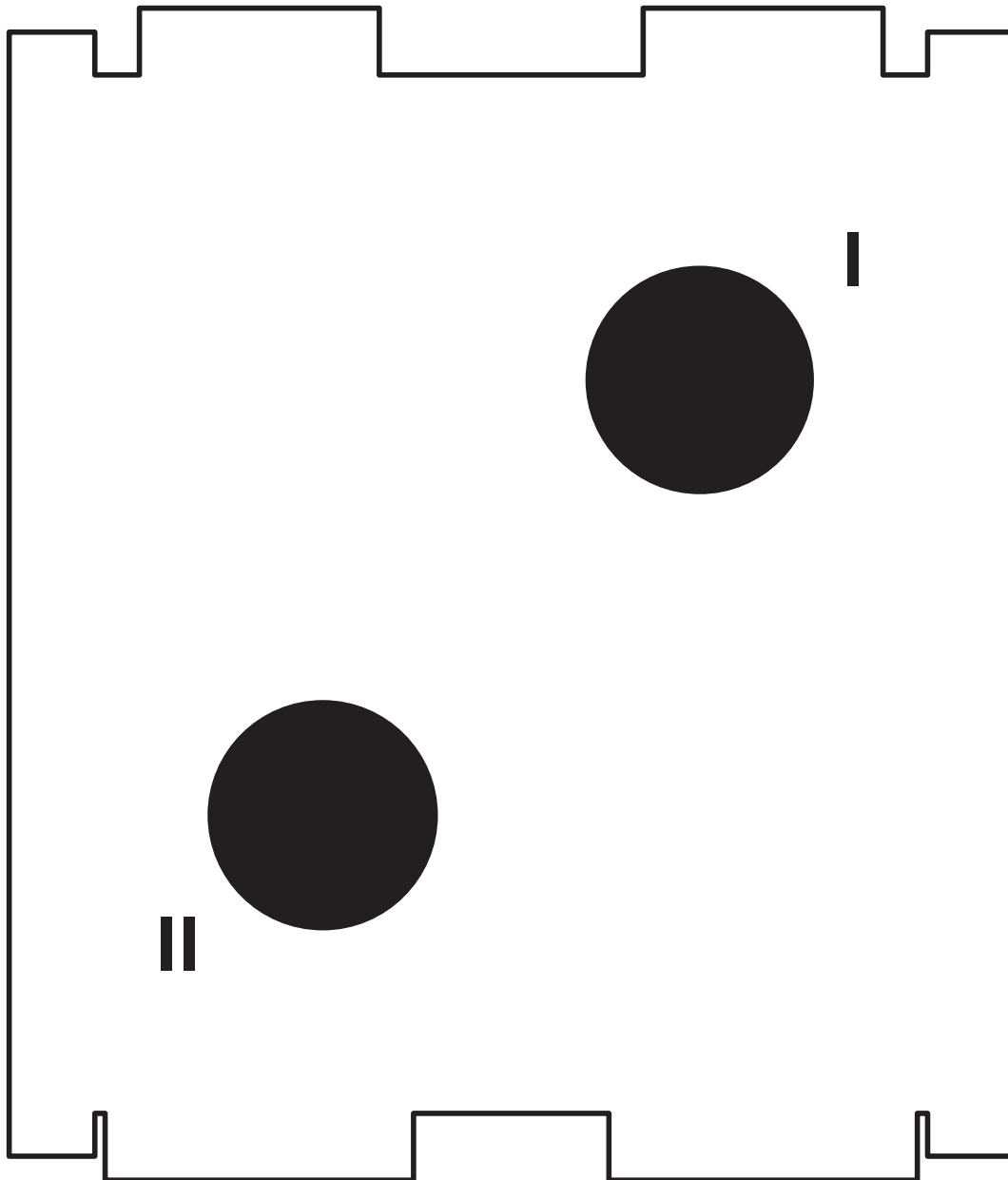
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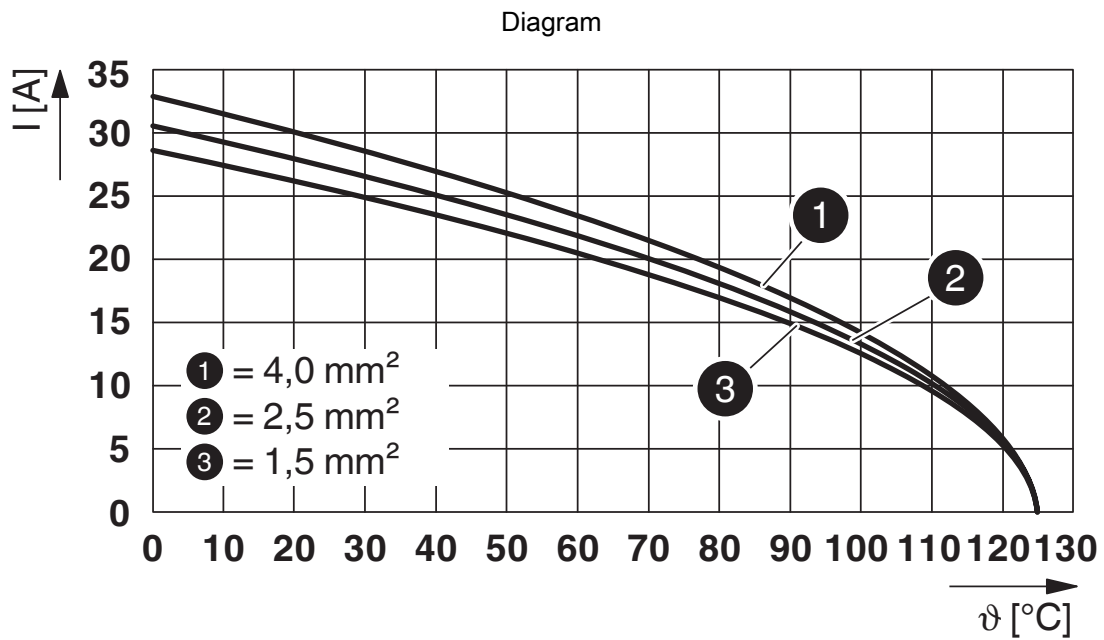
Drawings

Dimensional drawing



Schematic diagram





Derating diagram

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1417408

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1417408>

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 | 24 A | - 12 | - |



UL Recognized

Approval ID: E118976

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 600 V | 28 A | - 12 | - |



UL Recognized

Approval ID: E468743

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | | | |
| | 600 V | 28 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 | 5.333 kg CO2e |
|---------|---------------|

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