

# HC-M-20-CT-F - Contact insert module



1414373

<https://www.phoenixcontact.com/us/products/1414373>

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Contact insert module, number of positions: 20, power contacts: 20, control contacts: 0, Socket, Crimp connection, 690 V, 16 A, 0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>, application: Power

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1414373       |
| Packing unit                         | 2 pc          |
| Minimum order quantity               | 2 pc          |
| Sales key                            | BF62          |
| Product key                          | AF7ACE        |
| GTIN                                 | 4055626025261 |
| Weight per piece (including packing) | 22.6 g        |
| Weight per piece (excluding packing) | 22.6 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-20                |
| Application             | Power                  |
| Number of positions     | 20                     |
| Connection profile      | 20                     |
| Contact numbering       | 1 - 20                 |
| Number of module slots  | 2                      |
| No. of power contacts   | 20                     |
| No. of control contacts | 0                      |
| Contact material type   | turned                 |

### Insulation characteristics

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

### Connection data

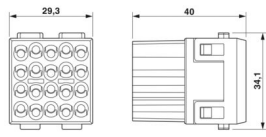
#### Connection technology

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

#### Conductor connection

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

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 34.2 mm  |
| Height              | 39.95 mm   |
| Length              | 29.4 mm  |

### Mechanical characteristics

|                  |        |
|------------------|--------|
| Contact diameter | 2.5 mm |
|------------------|--------|

### Electrical properties

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|                       |                |
|-----------------------|----------------|
| Rated voltage (III/3) | 690 V          |
| Rated surge voltage   | 6 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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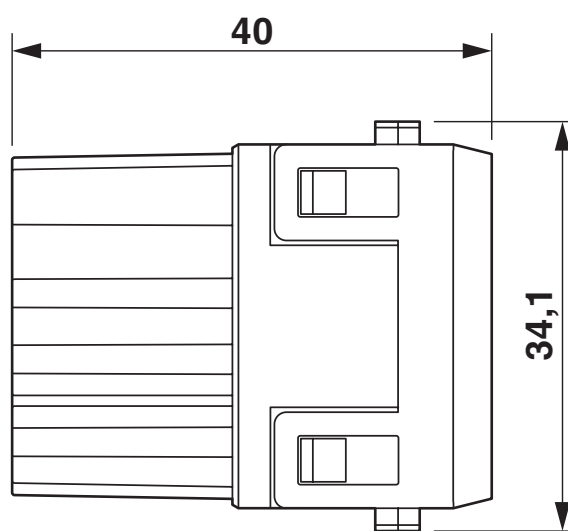
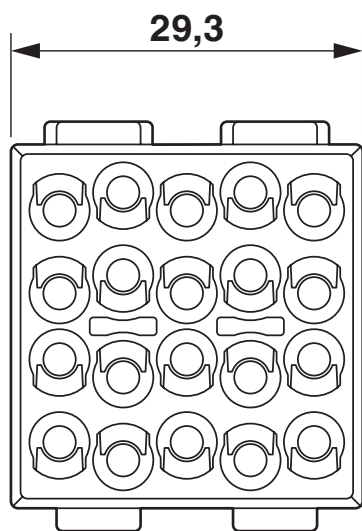


1414373

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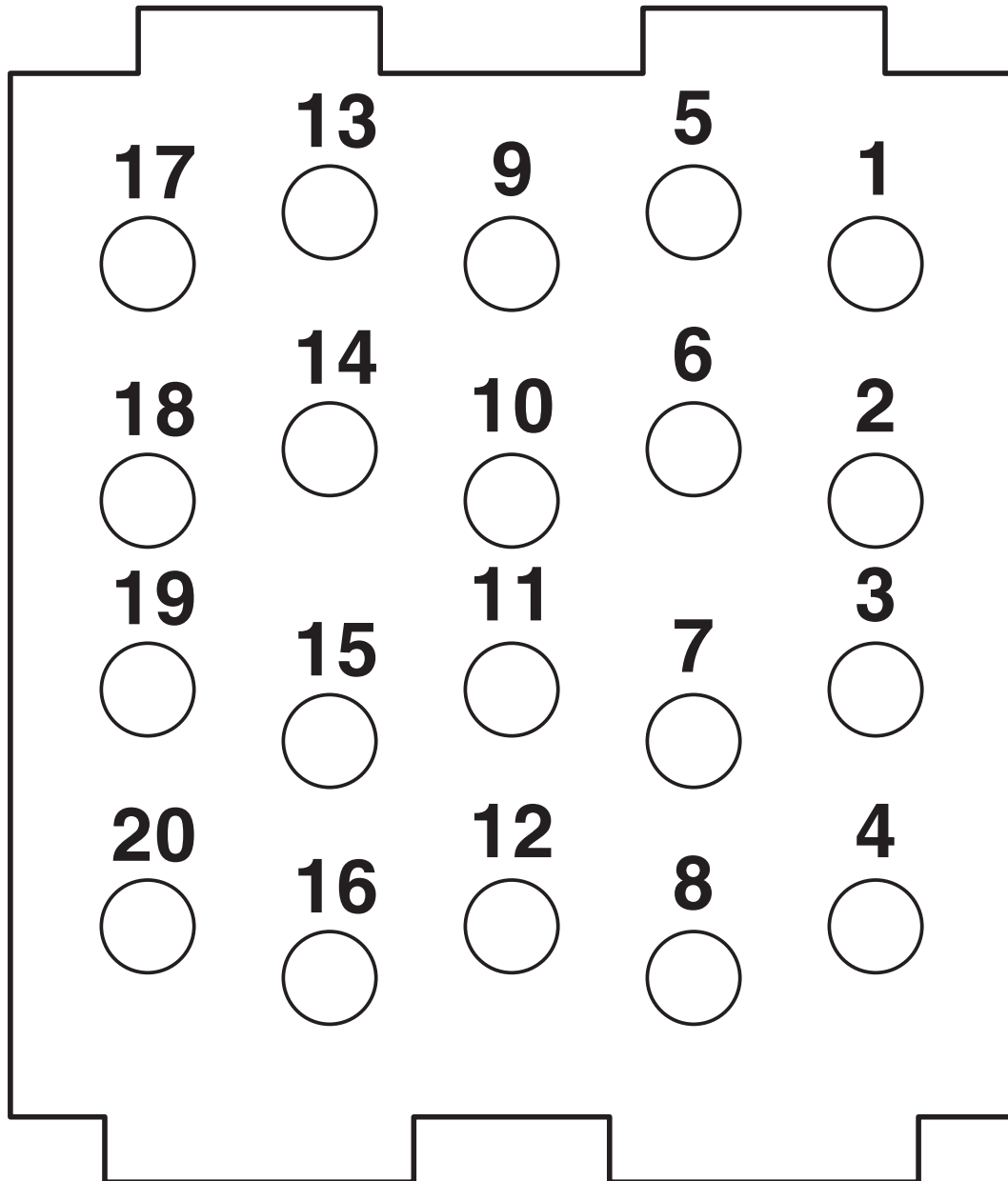
## Drawings

Dimensional drawing



Female insert

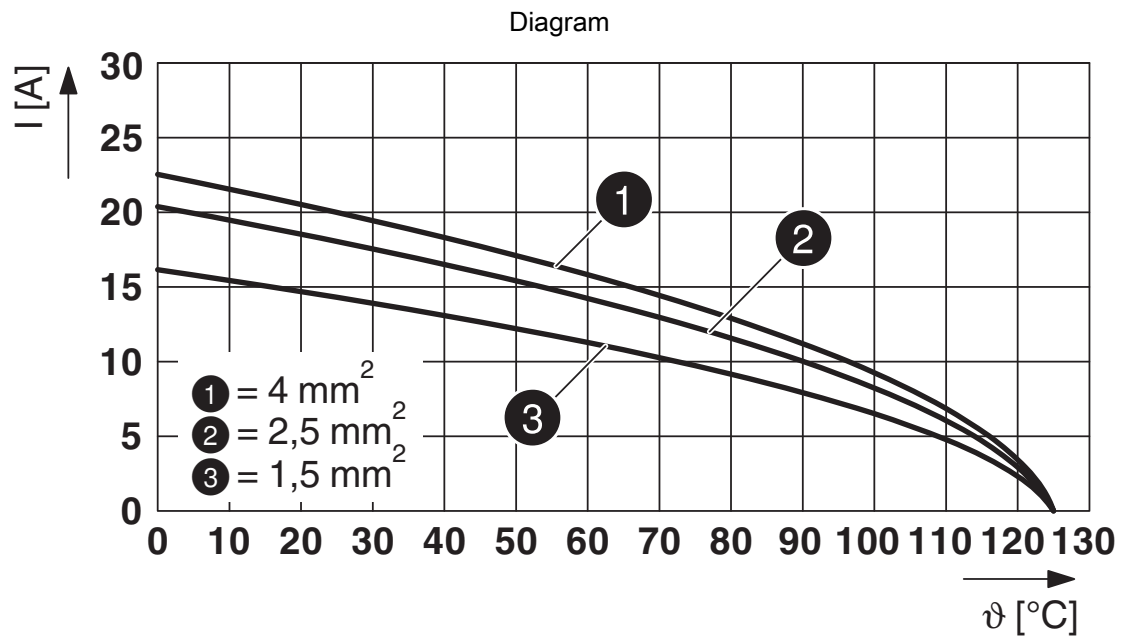
Schematic diagram



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/1414373>

### DNV

Approval ID: TAE000037S



### CSA

Approval ID: 158887

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 600 V                 | 14 A                  | - 12              | -                           |



### UL Recognized

Approval ID: E118976

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 600 V                 | 17.5 A                | - 12              | -                           |



### UL Recognized

Approval ID: E468743

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 600 V                 | 17.5 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 | 0.113 kg CO2e |
|---------|---------------|

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