

# HC-Q04-I-CT-M - Contact insert



1419898

<https://www.phoenixcontact.com/us/products/1419898>

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Contact insert, number of positions: 4, size: D7, number of connections per position: 1, Pin, Crimp connection, 830 V, 40 A, 1.5 mm<sup>2</sup> ... 10 mm<sup>2</sup>, application: Power, Only suitable for plastic housings, four coding options

## Your advantages

- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1419898       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF61          |
| Product key                          | AF7ABJ        |
| GTIN                                 | 4055626256177 |
| Weight per piece (including packing) | 12.8 g        |
| Weight per piece (excluding packing) | 12 g          |
| Customs tariff number                | 85389099      |
| Country of origin                    | CN            |

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## Technical data

### Notes

|         |  |
|---------|--|
| General | for HC-STA-D07 housing, CK 4,0 crimp contacts                  |
| General | Connectors may be operated only when there is no load/voltage. |
| General | Order crimp contacts separately                                |

### Mounting

|               |   |
|---------------|---|
| Assembly note | To ensure correct use, installation in housing with IP54 protection or better is required |
|---------------|---|

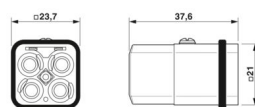
### Product properties

|                                    |  |
|------------------------------------|--|
| Product type                       | Contact insert with a fixed no. of positions |
| Series                             | HC-HS  |
| Application                        | Power  |
| Type                               | D7   |
| Number of positions                | 4  |
| Connection profile                 | 4  |
| Contact numbering                  | 1 - 4  |
| Number of connections per position | 1  |
| Contact material type              | turned                                       |

### Insulation characteristics

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

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 21 mm  |
| Height              | 40 mm  |
| Length              | 21 mm  |

### Mechanical characteristics

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

### Connection data

#### Connection technology

|                                    |                  |
|------------------------------------|------------------|
| Connection technology              | Crimp connection |
| Number of connections per position | 1                |
| Connection in acc. with standard   | IEC / EN         |

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## Conductor connection

|   |  |
|---|--|
| Conductor cross-section                 | 1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                               |
| Connection cross section AWG            | 16 ... 10  |
| Tightening torque                       | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
| Stripping length of the individual wire | 9 mm (1.5 mm <sup>2</sup> ... 6.0 mm <sup>2</sup> )                      |

## Electrical properties

|                       |       |
|-----------------------|-------|
| Rated voltage (III/3) | 830 V |
| Rated surge voltage   | 8 kV  |
| Rated current         | 40 A  |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 500 |
|-----------------------------|-------|

## Material specifications

|  |                 |
|--|-----------------|
| Flammability rating according to UL 94 | V0              |
| Seal material                          | NBR, conductive |
| Contact material                       | Copper alloy    |
| Contact surface material               | Ag              |
| Contact carrier material               | PC              |
| Standards/regulations                  | PC              |

## Environmental and real-life conditions

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Degree of protection            | IP20   |
| Ambient temperature (operation) | -40 °C ... 125 °C (including heating up of contacts) |

## Standards and regulations

|  |                            |
|--|----------------------------|
| Constructional and testing regulations | DIN VDE 0627/86            |
|  | DIN VDE 0110/02.79         |
|  | DIN VDE 0110-1/04.97       |
|  | IEC 60664-1, DIN IEC 60512 |
|  | IEC 60352                  |
| Tests                                  | DIN VDE 0627/86            |
|  | DIN VDE 0110/02.79         |
|  | DIN VDE 0110-1/04.97       |
|  | IEC 60664-1, DIN IEC 60512 |
|  | IEC 60352                  |

### 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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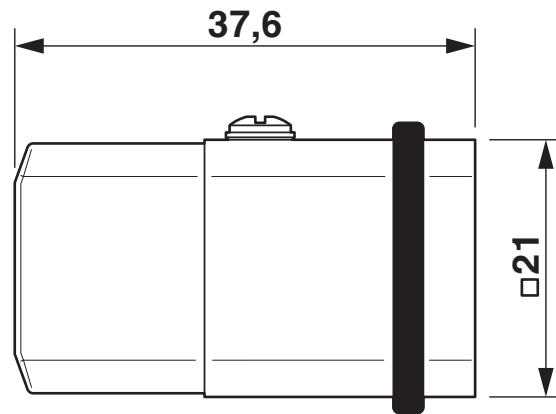
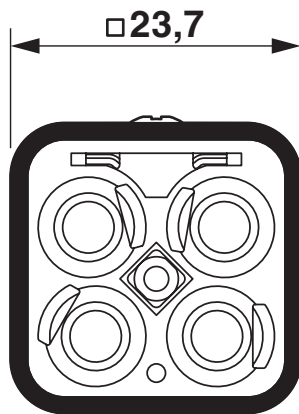
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## Drawings

### Dimensional drawing



Male insert

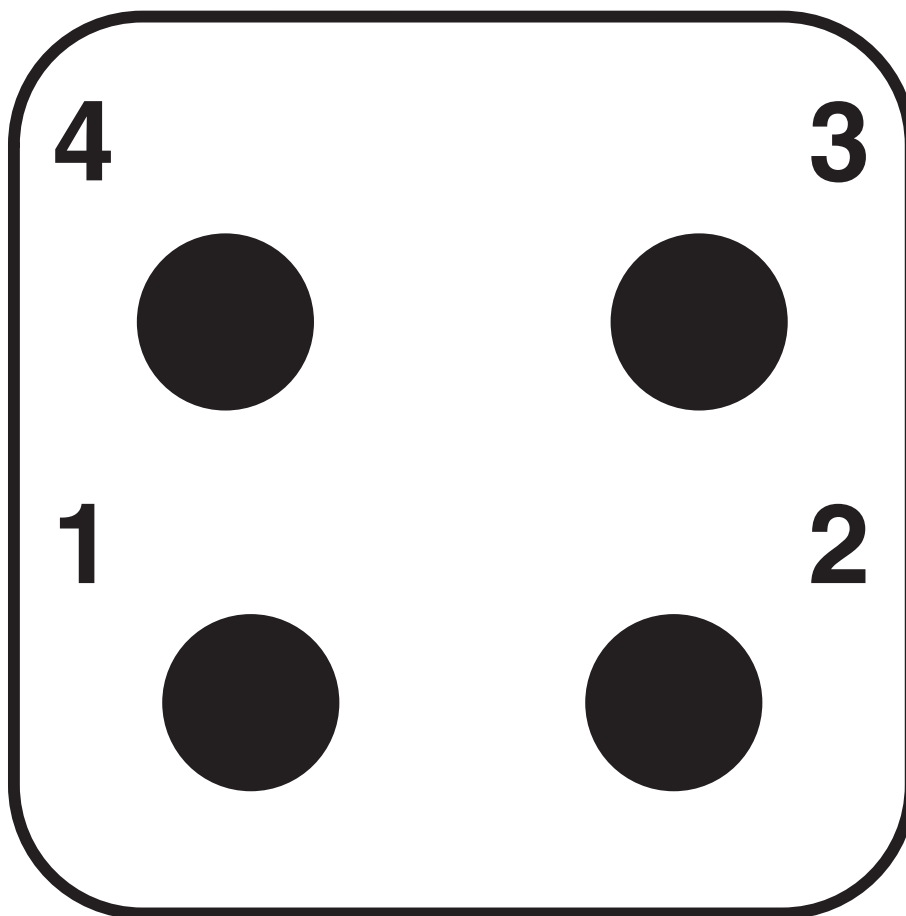
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Schematic diagram

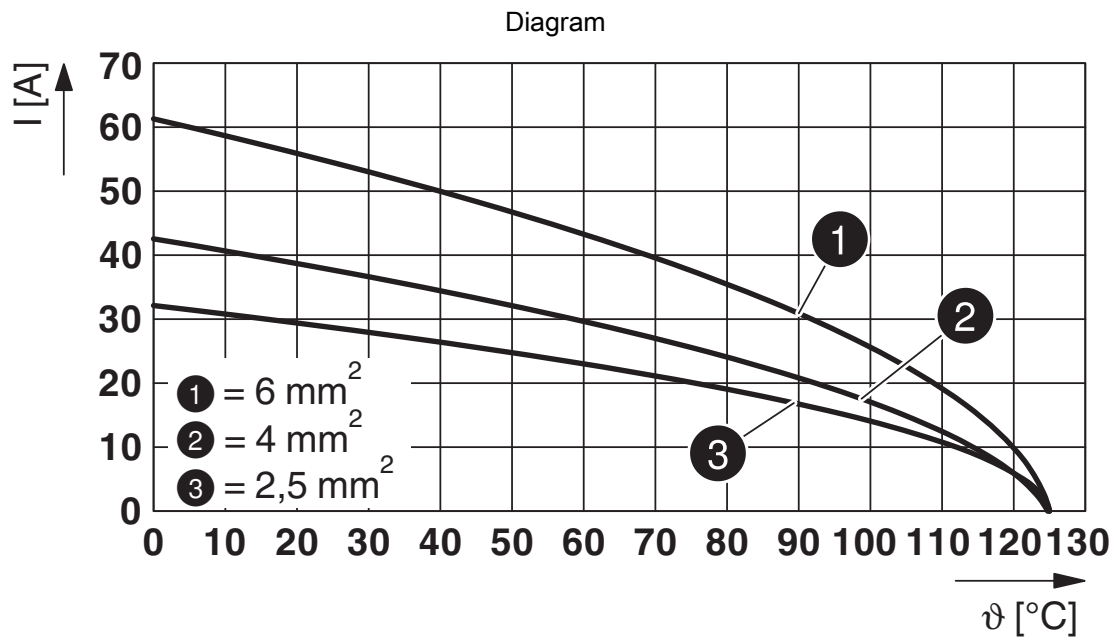


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Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1419898>

|  <b>UL Recognized</b><br>Approval ID: E118976 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 600 V                 | 50 A                  | - 8               | -                           |

|  <b>UL Recognized</b><br>Approval ID: E468743 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 600 V                 | 45 A                  | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440205 |
| ECLASS-15.0 | 27440205 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000438 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121500 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

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