

# HC-Q02-I-CT-F - Contact insert

1419895

<https://www.phoenixcontact.com/pc/products/1419895>



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Contact insert, number of positions: 2+PE, size: D7, number of connections per position: 1, Socket, Crimp connection, 400 V, 40 A, 1.5 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Power

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1419895             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | BF7ABJ              |
| Catalog page                         | Page 511 (C-2-2019) |
| GTIN                                 | 4055626256146       |
| Weight per piece (including packing) | 9.5 g               |
| Weight per piece (excluding packing) | 9.4 g               |
| Customs tariff number                | 85389099            |
| Country of origin                    | CN                  |

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## Technical data

### Notes

|         |                                                                                           |
|---------|-------------------------------------------------------------------------------------------|
| General | For HC-D7 housing, crimp contacts CK 4,0. Crimp contacts not included in scope of supply. |
| General | Connectors may be operated only when there is no load/voltage.                            |

### Mounting

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

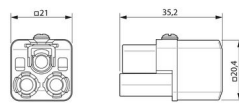
### Product properties

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Type                               | D7                                           |
| Product type                       | Contact insert with a fixed no. of positions |
| Number of positions                | 2                                            |
| Connection profile                 | 2+PE                                         |
| Contact numbering                  | 1 - 2                                        |
| Application                        | Power                                        |
| Number of connections per position | 1                                            |
| Contact material type              | turned                                       |
| Series                             | HC-HS                                        |

### Insulation characteristics

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

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 21 mm                                                                                |
| Height              | 34.8 mm                                                                              |
| Length              | 21 mm                                                                                |

### Mechanical characteristics

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

### Connection data

#### Connection technology

|                                    |                               |
|------------------------------------|-------------------------------|
| Connection technology              | Crimp connection              |
|                                    | Crimp connection (PE contact) |
| Number of connections per position | 1                             |

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|                                  |          |
|----------------------------------|----------|
| Connection in acc. with standard | IEC / EN |
|----------------------------------|----------|

## Conductor connection

|                                         |                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------|
| Conductor cross section                 | 1.5 mm <sup>2</sup> ... 6 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 ... 6.0 mm <sup>2</sup> )                                      |
|                                         | 11 mm (for 10 mm <sup>2</sup> )                                          |

## Electrical properties

|                       |       |
|-----------------------|-------|
| Rated voltage (III/3) | 400 V |
| Rated surge voltage   | 6 kV  |
| Rated current         | 40 A  |

## 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: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| 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

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|                       |                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|
| 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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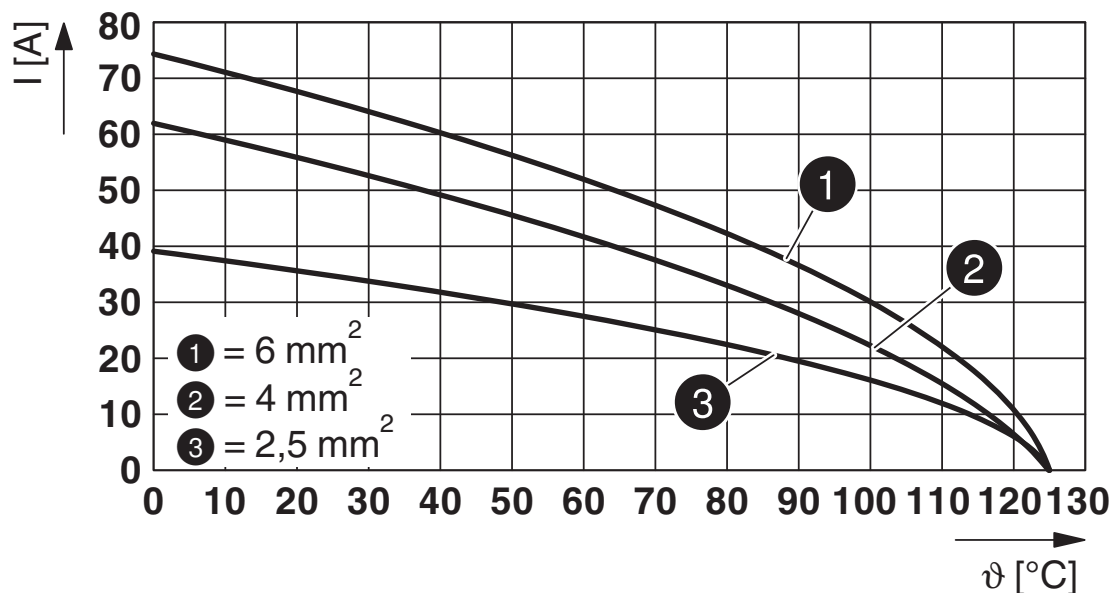
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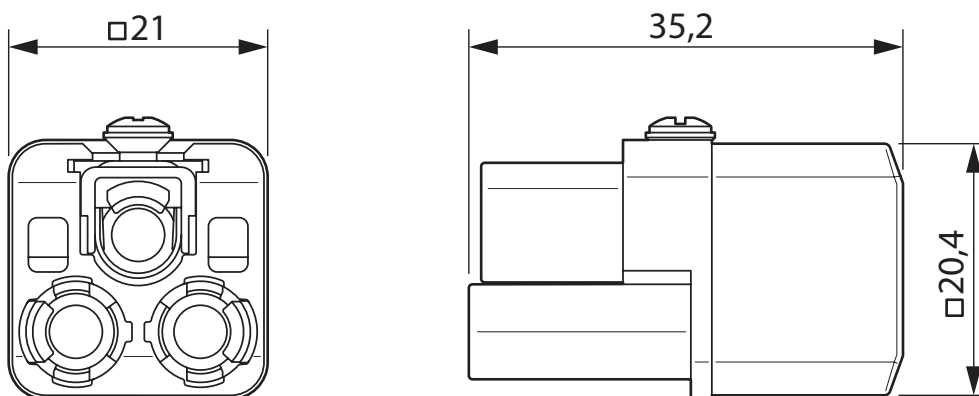
## Drawings

Diagram



Derating diagram

Dimensional drawing



Female insert

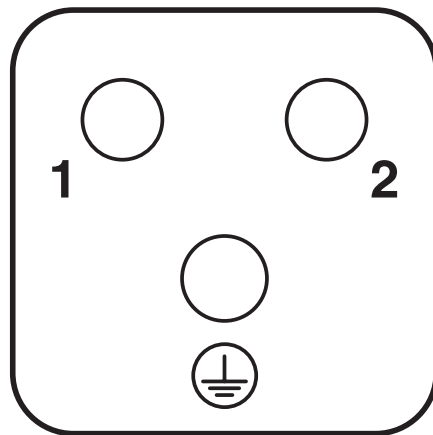
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Schematic diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1419895>

|                                                                                   |                                              |                                |                   |                               |
|-----------------------------------------------------------------------------------|----------------------------------------------|--------------------------------|-------------------|-------------------------------|
|  | <b>UL Recognized</b><br>Approval ID: E118976 |                                |                   |                               |
|                                                                                   | Nominal voltage U <sub>N</sub>               | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                                                                   | 600 V                                        | 50 A                           | - 8               | -                             |

|                                                                                   |                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------|
|  | <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00511 |
|-----------------------------------------------------------------------------------|-------------------------------------------------|

|                                                                                   |                                              |                                |                   |                               |
|-----------------------------------------------------------------------------------|----------------------------------------------|--------------------------------|-------------------|-------------------------------|
|  | <b>UL Recognized</b><br>Approval ID: E468743 |                                |                   |                               |
|                                                                                   | Nominal voltage U <sub>N</sub>               | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                                                                   | 600 V                                        | 45 A                           | -                 | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440205 |
| ECLASS-12.0 | 27440205 |
| ECLASS-13.0 | 27440205 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000438 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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