

## Contact insert - HC-B06-I-TPT-F - 1423016

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Contact insert, number of positions: 6+PE, size: B6, number of connections per position: 2, Socket, Push-in connection, 500 V, 16 A, 0.25 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, application: Power

### Your advantages

- ✓ For fast coding with plastic profile
- ✓ Significant time savings during conductor connection
- ✓ Double conductor connection per pos.

**RoHS**

COMPLIANT

### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                 |
| GTIN         |  |
| GTIN         | 4055626322599                                                                        |

### Technical data

#### General

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Note                               | only use flexible conductors with ferrules                               |
|                                    | Connectors may be operated only when there is no load/voltage.           |
| Connection method                  | Push-in connection                                                       |
| Torque                             | 0.8 Nm ... 1.2 Nm (PE connection)                                        |
|                                    | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
| Number of connections per position | 2                                                                        |
| Degree of pollution                | 3                                                                        |
| Overvoltage category               | III                                                                      |
| Number of positions                | 6+PE                                                                     |
| Insertion/withdrawal cycles        | ≥ 500                                                                    |
| Size                               | B6                                                                       |
| Contact numbering                  | 1 - 6                                                                    |
| Conductor cross section            | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                             |

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### Technical data

#### General

|                                         |                                                                                           |
|-----------------------------------------|-------------------------------------------------------------------------------------------|
| Connection cross section AWG            | 24 ... 16                                                                                 |
| Stripping length of the individual wire | 8 mm ±1 mm                                                                                |
| Assembly instructions                   | To ensure correct use, installation in housing with IP54 protection or better is required |

#### Ambient conditions

|                                 |                   |
|---------------------------------|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
|---------------------------------|-------------------|

#### Material data

|                          |              |
|--------------------------|--------------|
| Contact material         | Copper alloy |
| Contact surface material | Ag           |
| Contact carrier material | PC           |

#### Electrical characteristics

|                       |       |
|-----------------------|-------|
| Rated voltage (III/3) | 500 V |
| Rated surge voltage   | 6 kV  |
| Rated current         | 16 A  |

#### Standards and Regulations

|                                        |              |
|----------------------------------------|--------------|
| Constructional and testing regulations | DIN EN 61984 |
|                                        | DIN EN 60664 |
|                                        | IEC 60352    |
| Flammability rating according to UL 94 | V0           |

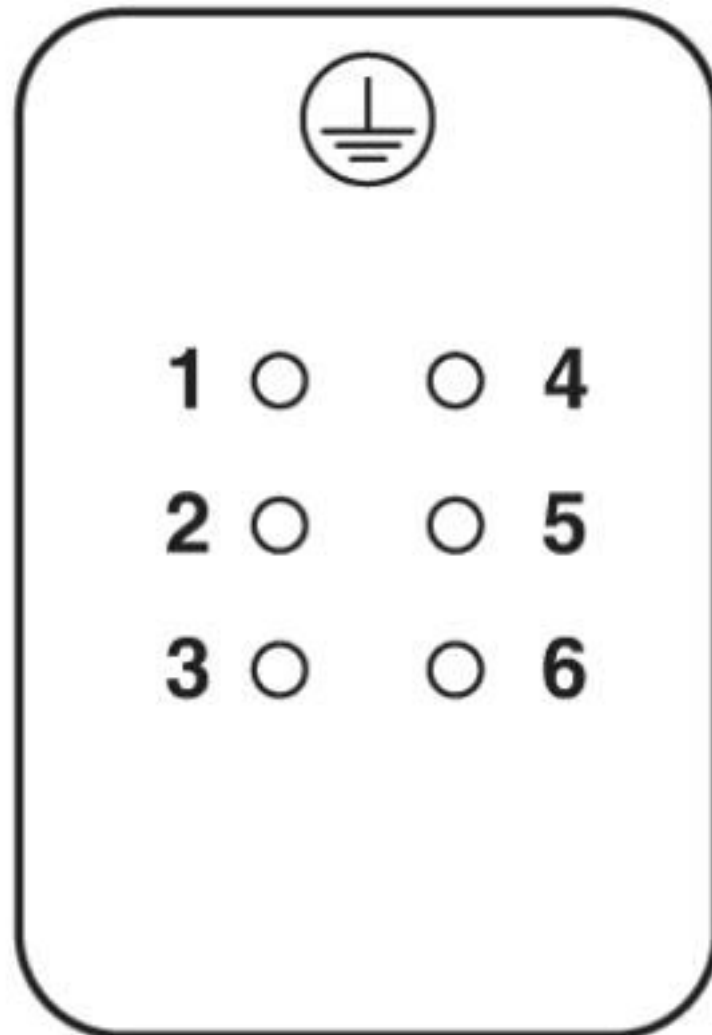
#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

## Contact insert - HC-B06-I-TPT-F - 1423016

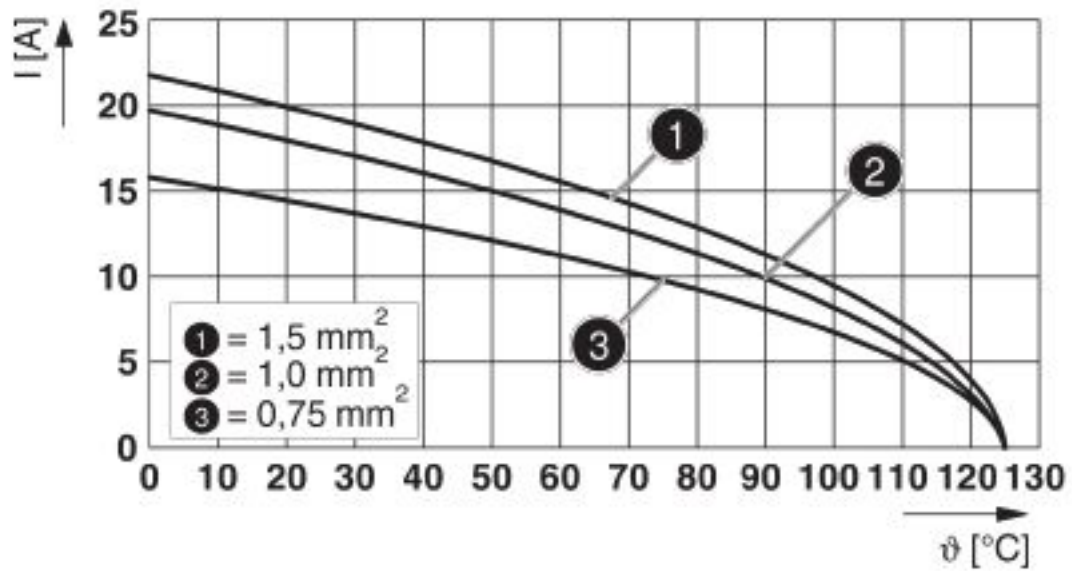
Schematic diagram



Connector pin assignment, connection side

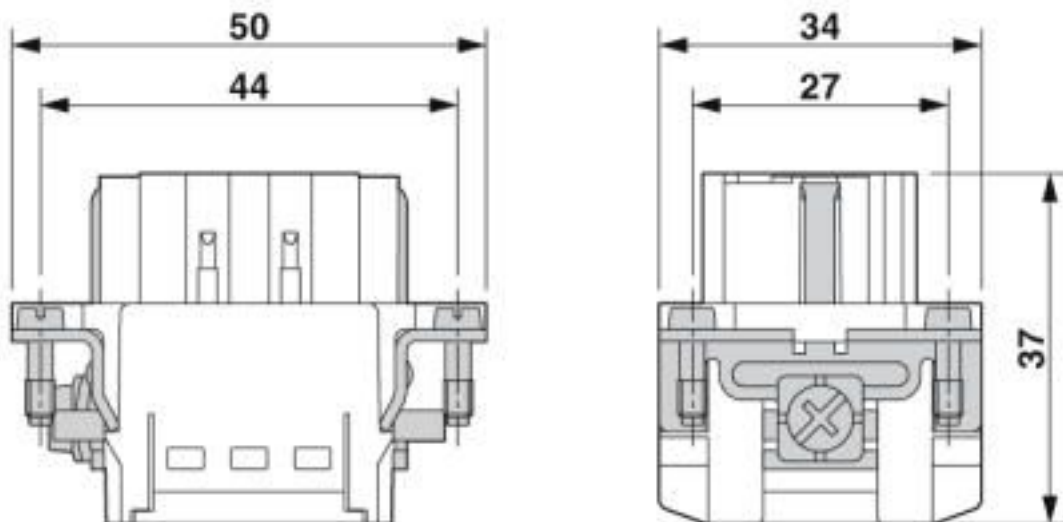
## Contact insert - HC-B06-I-TPT-F - 1423016

Diagram



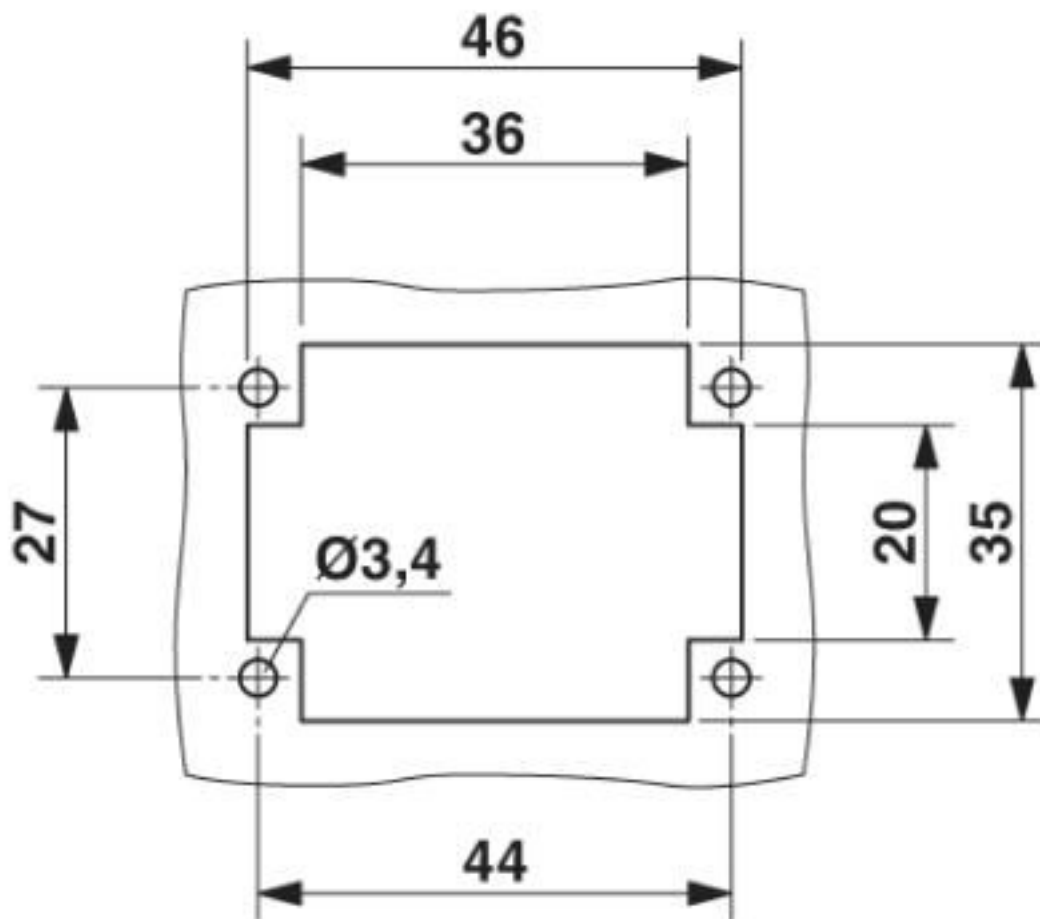
Derating diagram

Dimensional drawing



## Contact insert - HC-B06-I-TPT-F - 1423016

Dimensional drawing



Mounting cutout when used without housing

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440205 |
| eCl@ss 5.1    | 27261200 |
| eCl@ss 6.0    | 27261200 |
| eCl@ss 7.0    | 27440205 |
| eCl@ss 8.0    | 27440205 |
| eCl@ss 9.0    | 27440205 |

ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC000438 |
| ETIM 6.0 | EC000438 |
| ETIM 7.0 | EC000438 |

## Contact insert - HC-B06-I-TPT-F - 1423016

### Approvals

#### Approvals

#### Approvals

CSA / UL Recognized / EAC / EAC

#### Ex Approvals

### Approval details

|                    |                                                                                   |                                                                                                                                         |       |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    |                                                                                   |                                                                                                                                         |       |
| Nominal voltage UN |                                                                                   | 600 V                                                                                                                                   |       |
| Nominal current IN |                                                                                   | 11 A                                                                                                                                    |       |
| mm²/AWG/kcmil      |                                                                                   | 16                                                                                                                                      |       |

|                    |                                                                                     |                                                                                                                                                       |         |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E118976 |
|                    |                                                                                     |                                                                                                                                                       |         |
| Nominal voltage UN |                                                                                     | 600 V                                                                                                                                                 |         |
| Nominal current IN |                                                                                     | 14 A                                                                                                                                                  |         |
| mm²/AWG/kcmil      |                                                                                     | 16                                                                                                                                                    |         |

|     |                                                                                     |               |
|-----|-------------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-------------------------------------------------------------------------------------|---------------|

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00511 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

### Accessories

#### Accessories

#### Coding element

## Contact insert - HC-B06-I-TPT-F - 1423016

### Accessories

Coding profile - CP-HC - 1686478



Coding profile, 4 coding profiles per strip, for insertion in coding keyways

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Coding element - HC-CBU - 1676860



Coding socket for coding up to 16 connectors

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Coding bolt - HC-CB - 1772722



Coding pin, prevents mismating of up to six connectors with an identical number of positions

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Coding element - HC-CST - 1676857



Coding peg for coding up to 16 connectors

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### Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

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### Docking frame

## Contact insert - HC-B06-I-TPT-F - 1423016

### Accessories

Docking frames - HC-B 6-ANDOCK - 1586112



Docking frames for racks, for type B6 contact inserts, with 4 M5 flat headed screws, slide-in offset for x/y axis of  $\pm 1.5$  mm

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### Mounting material

Screw - HC-B-PES - 1604997



PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64

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PE multiplier - HC-B-3PE - 1644326



PE multiplier, for three PE connections, for HC-B (besides HC-B..E..ZZ) / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

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Strain relief clamp - HC-B-ZG - 1685327



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit

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Strain relief clamp - HC-B-ZS - 1685330



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit

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### Additional products

## Contact insert - HC-B06-I-TPT-F - 1423016

### Accessories

Contact insert - HC-B06-I-TPT-M - 1423015



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