1417379

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Contact insert module, number of positions: 1, power contacts: 1, control contacts: 0, Socket, Axial screw connection, 1000 V, 200 A, 6 mm<sup>2</sup> ... 70 mm<sup>2</sup>, application: Power

### Commercial data

| Item number                          | 1417379             |
|--------------------------------------|---------------------|
| Packing unit                         | 2 pc                |
| Minimum order quantity               | 2 pc                |
| Sales key                            | BF62                |
| Product key                          | BF7ACE              |
| Catalog page                         | Page 573 (C-2-2019) |
| GTIN                                 | 4055626112602       |
| Weight per piece (including packing) | 62.75 g             |
| Weight per piece (excluding packing) | 61.4 g              |
| Customs tariff number                | 85366990            |
| Country of origin                    | PL                  |

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### Technical data

### Notes

| General | For HEAVYCON HC-B6 to B48 housing (housing height: min. 72 mm), HC-M-BMF module carrier frame required, axial connection for 5 mm Allen key |
|---------|---|
| General | Connectors may be operated only when there is no load/voltage.  |
| General | The axial screw connection must be established using a 5 mm<br>Allen key (for stranded conductors only)                                     |

### Mounting

| Assembly instructions       To ensure correct use, installation in housing with IP54 protection or better is required         Note regarding axial connection       technology:         Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used. Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use.         The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before use.         Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be cut off before reconnection. The terminal screw must only be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct | or better is required         Note regarding axial connection<br>technology:         Only for stranded wires. The specified conductor cross sections<br>refer to the geometric cross section of the cable used.<br>Cables with a geometric cross section which deviates<br>significantly from the nominal cable cross section must be<br>checked before use.         The axial connection technology connection space is designed<br>for fine strand cables according to VDE 0295 Class 5. Deviating<br>cable structures (e.g., Class 6 cables) must be checked before<br>use.         Assembly instructions         Before assembly, ensure that the tapered screw is fully loosened<br>(chamber is open). Cables must not be twisted. The wires must<br>be pushed into the contact chamber as far as they will go (until<br>the insulation touches the contact). Hold the wires in position and<br>tighten using an Allen key. The used wire end must be cut off<br>before reconnection. The terminal screw must only be<br>retightened once to prevent the litz wires from breaking. To<br>prevent damage to the contact, the wire/cable must be<br>mechanically held at an appropriate distance from the connection<br>point (e.g., when used in a plate cut out). For notes on correct<br>execution, see DIN VDE 0100-520:2003-06. Unused connections<br>must be tightened with maximum torque. | or better is required Note regarding axial connection technology: Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used. Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use. The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before use. Assembly instructions Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be retightened once to prevent the litz wires from breaking. To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct execution, see DIN VDE 0100-520:2003-06. Unused connection   | 0                     |  |
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#### **Product properties**

| Product type            | Modular contact insert |
|-------------------------|------------------------|
| Number of positions     | 1                      |
| Connection profile      | 1                      |
| Application             | Power                  |
| Number of module slots  | 2                      |
| No. of power contacts   | 1                      |
| No. of control contacts | 0                      |
| Series                  | HC-M-HS                |

Overvoltage category

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| Degree of pollution                     | 3  |
|---|--|
| Connection data                         |  |
| Connection technology                   |  |
| Connection technology                   | Axial screw connection   |
| Conductor connection                    |  |
| Conductor cross section                 | 6 mm <sup>2</sup> 70 mm <sup>2</sup> (The cross section specification refers to the geometric cross section of the cable used) |
| Connection cross section AWG            | 10 0   |
| Tightening torque                       | 4 Nm 6 Nm (6 mm <sup>2</sup> 10 mm <sup>2</sup> )  |
|   | 6 Nm 8 Nm (16 mm <sup>2</sup> 25 mm <sup>2</sup> )   |
|   | 8 Nm 10 Nm (35 mm <sup>2</sup> 70 mm <sup>2</sup> )  |
| Stripping length of the individual wire | 15 mm (with an outside conductor diameter up to 12 mm)   |
|   | 19 mm (with an outside conductor diameter up to 16 mm)   |
| Dimensions                              |  |
| Dimensional drawing                     |  |
| Width                                   | 34.2 mm  |
| Height                                  | 60 mm  |
| Length                                  | 29.4 mm  |
| Mechanical characteristics              |  |
| Minimum housing height                  | 72 mm  |
| Contact diameter                        | 9.5 mm   |
| Electrical properties                   |  |
| Rated voltage (III/3)                   | 1000 V   |
| Rated surge voltage                     | 8 kV   |
| Rated current                           | 200 A  |
| lechanical properties                   |  |
| Mechanical data                         |  |
| Insertion/withdrawal cycles             | ≥ 500  |
| Naterial specifications                 |  |
| Flammability rating according to UL 94  | V0   |
| Contact material                        | Copper alloy   |
| Contact surface material                | Ag   |
| Contact carrier material                | PC   |
|   |  |

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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)    |
|--------------------|--------------------------------------|--|
| En                 | vironmental and real-life conditions |  |
| Ambient conditions |                                      |  |
|                    | Ambient temperature (operation)      | -40 °C 125 °C  |
|                    | andards and regulations              |  |
|                    | Testing                              |  |
|                    | Standards/regulations                | PC: Fire protection in rail vehicles - requirement sets R22, R23,<br>and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

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## Classifications

#### ECLASS

| ECLASS-11.0 | 27440217 |
|-------------|----------|
| ECLASS-12.0 | 27440217 |
| ECLASS-13.0 | 27440217 |

### ETIM

|        | ETIM 9.0    | EC000438 |  |
|--------|-------------|----------|--|
| UNSPSC |             |          |  |
|        | UNSPSC 21.0 | 39121400 |  |

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### Environmental product compliance

| REACh SVHC | Lead 7439-92-1   |
|------------|--|
|            |  |
|            |  |
| China RoHS | Environmentally Friendly Use Period = 50 years   |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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