

# HC-STA-A03PT-BWS-HS-M20-ELCAL - Connector set



1424451

<https://www.phoenixcontact.com/us/products/1424451>

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Connector set, number of positions: 3, connection method: Push-in connection, connection cross section: AWG 26- 16

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1424451       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF63          |
| Product key                          | AF7AFX        |
| GTIN                                 | 4055626372808 |
| Weight per piece (including packing) | 133 g         |
| Weight per piece (excluding packing) | 135 g         |
| Customs tariff number                | 85366990      |
| Country of origin                    | CN            |

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## Set consists of

### HC-A03-I-PT-M - Contact insert

1585252

<https://www.phoenixcontact.com/us/products/1585252>



Contact insert, number of positions: 3+PE, size: D7, number of connections per position: 1, Pin, Push-in connection, 230 V/400 V, 10 A, 0.14 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>

### HC-A03-I-PT-F - Contact insert

1585265

<https://www.phoenixcontact.com/us/products/1585265>



Contact insert, number of positions: 3+PE, size: D7, number of connections per position: 1, Socket, Push-in connection, 230 V/400 V, 10 A, 0.14 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>

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## HC-STA-D07-BWS-EL-AL - Housing

1419249

<https://www.phoenixcontact.com/us/products/1419249>



Panel mounting base D7, with single locking latch, material: Die-cast aluminum, salt water resistant, height: 25.5 mm, cable gland: none, Standard

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## HC-STA-D07-HHFS-1STM20-EL-AL - Housing

1419235

<https://www.phoenixcontact.com/us/products/1419235>



Sleeve housing D7, for single locking latch, material: Die-cast aluminum, salt water resistant, cable outlets: 1, lateral, 1x M20, height: 52.8 mm, cable gland: none, Standard

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## G-INS-M20-S68N-NNES-S - Cable gland

1411163

<https://www.phoenixcontact.com/us/products/1411163>



Cable gland, material for screw connection: Brass, nickel-plated, application: Standard, external cable diameter 6 mm ... 12 mm, shielding: no, connecting thread: M20 x 1.5, color: silver-colored, with O-ring

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## Technical data

### Product properties

|                      |                  |
|----------------------|------------------|
| Product type         | Connector set    |
| Housing type         | Complete housing |
| Application          | Standard         |
| Type                 | D7               |
| Number of positions  | 3                |
| No. of cable outlets | 1                |
| Protective cover     | no               |

### Insulation characteristics

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

### Electrical properties

|                                  |                             |
|----------------------------------|-----------------------------|
| Rated voltage (III/3)            | 230 V (Conductor-PE)        |
|                                  | 400 V (Conductor-Conductor) |
| Rated voltage for power contacts | 230/400 V                   |
| Rated surge voltage              | 4 kV                        |
| Rated current                    | 10 A                        |

### Connection data

|   |   |
|---|---|
| Connection method                       | Push-in connection  |
| Connection technology                   | Push-in connection  |
| Conductor cross-section                 | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule) |
|   | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule) |
| Connection cross section AWG            | 26 ... 16 (with ferrule)                                    |
| Stripping length of the individual wire | 10 mm   |

### Dimensions

#### Installation dimensions

|                               |       |
|-------------------------------|-------|
| Width of the assembly cutout  | 21 mm |
| Length of the assembly cutout | 21 mm |

### Material specifications

|  |  |
|--|--|
| Material Housing                       | Die-cast aluminum, saltwater-resistant |
| Flammability rating according to UL 94 | V0                                     |
| Seal material                          | NBR, conductive                        |
| Contact material                       | Copper alloy                           |
| Contact surface material               | Ag                                     |
| Contact carrier material               | PC                                     |
| Locking latch material                 | PA                                     |

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## Cable/line

|   |                                |
|---|--------------------------------|
| External cable diameter                 | 6 mm ... 12 mm                 |
|   | 10 mm ... 12 mm (for UL 514 B) |
| Stripping length of the individual wire | 10 mm                          |

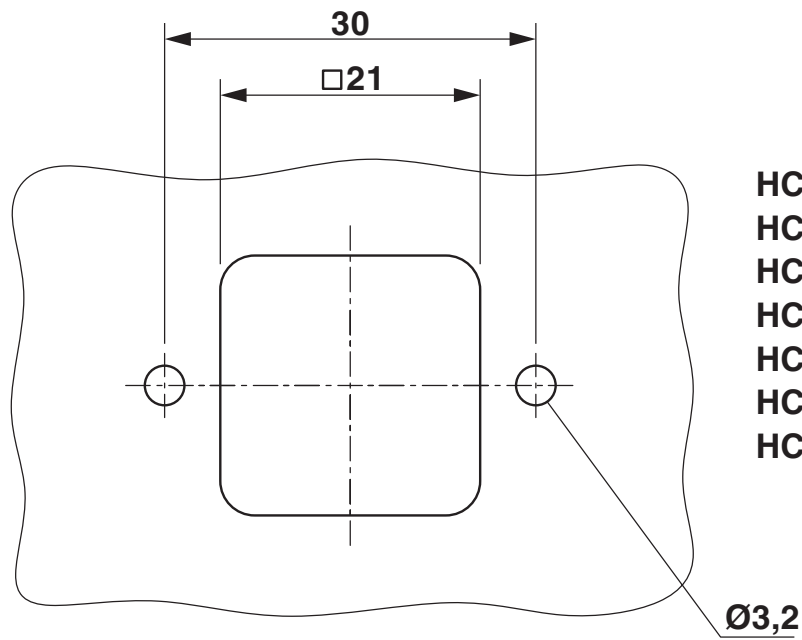
## Environmental and real-life conditions

### Ambient conditions

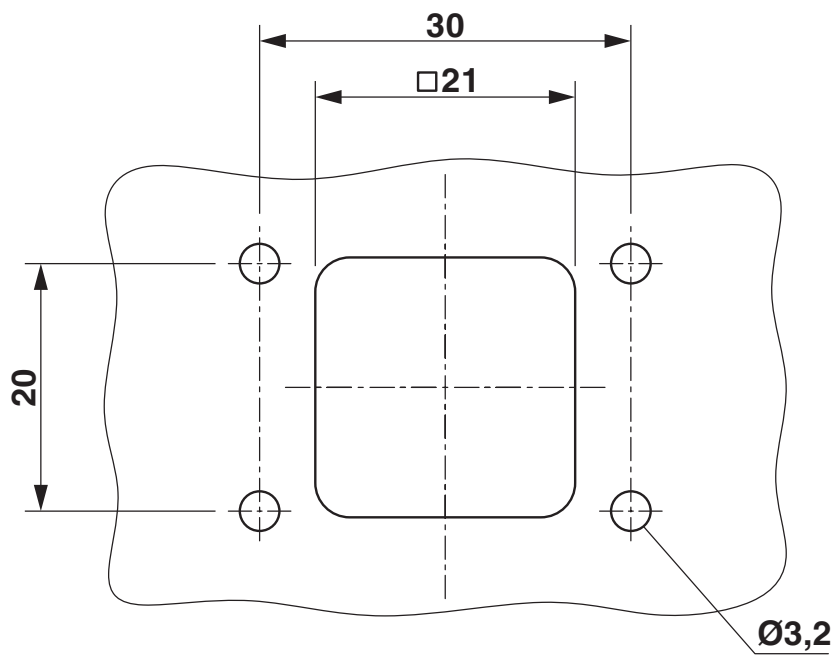
|                                 |                   |
|---------------------------------|-------------------|
| Degree of protection            | IP66              |
|                                 | IP67              |
| Enclosure rating (NEMA)         | 4 (UL 50e)        |
|                                 | 4X (UL 50e)       |
|                                 | 12 (UL 50e)       |
| Impact strength                 | IK06              |
| Ambient temperature (operation) | -40 °C ... 100 °C |

Drawings

Dimensional drawing



- HC-A03
- HC-A04
- HC-D07
- HC-D08
- HC-Q05
- HC-Q07
- HC-Q12



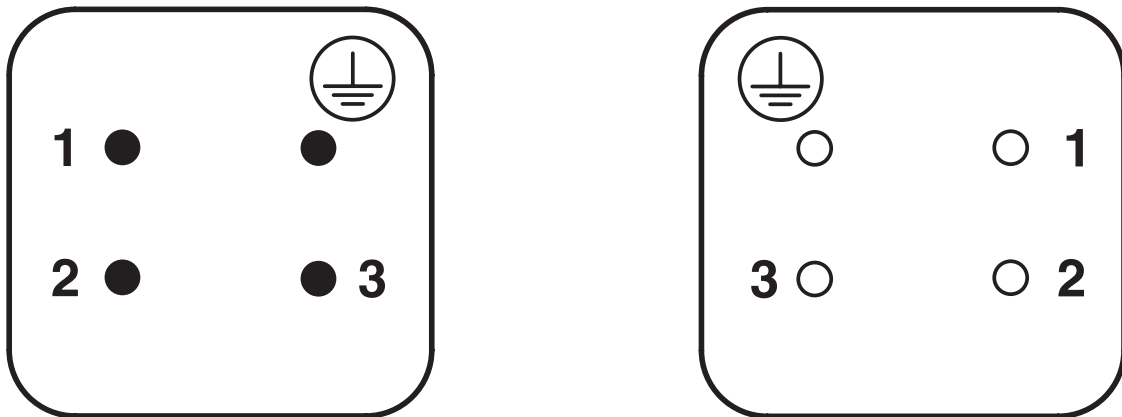
- HC-Q02
- HC-Q03
- HC-Q04

Mounting cutout

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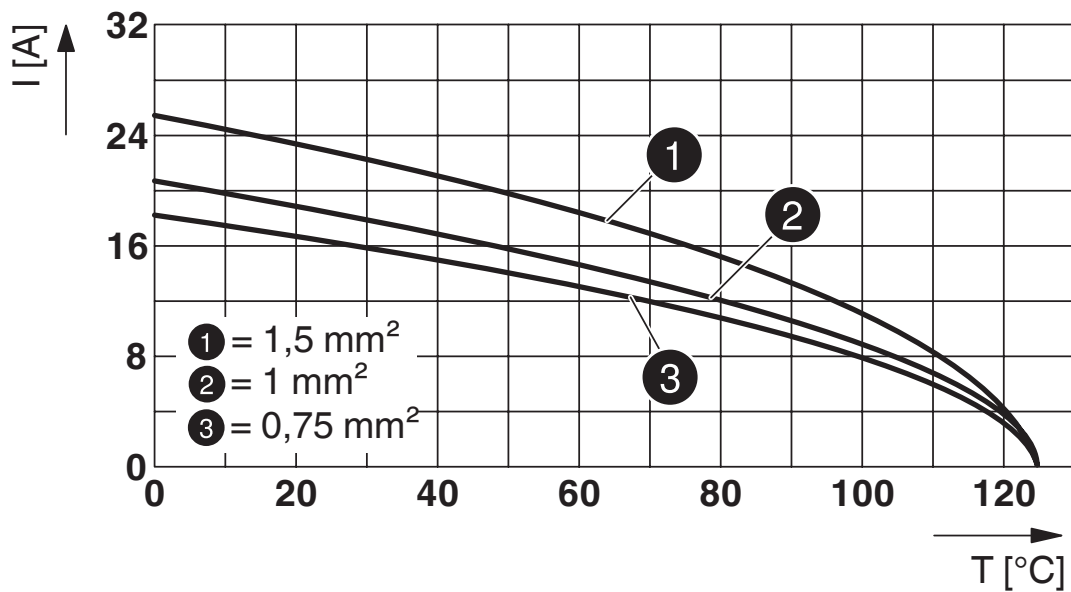
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Schematic diagram



Pin assignment, connection side, pin left, socket right

Diagram



Derating diagram

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424451>

**DNV**

Approval ID: TAE000037S

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440113 |
| ECLASS-15.0 | 27440113 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002636 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |      |
|---|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 844760ae-52bd-4bcd-a240-c8a42cf80162 |

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