

# SH-8EPS48AH000S - Device connector rear mounting



1627206

<https://www.phoenixcontact.com/us/products/1627206>

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M23, Device connector rear mounting, series: SH, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, contact connection type: Pin, Crimp connection, Flat gasket, Central fastening M26 x 1, Panel thickness min.: 1.5 mm, Panel thickness max.: 5 mm, coding: N

## Your advantages

- All housing can be fitted with pin or socket contacts
- A total of eight contacts are available for signal transmission
- Safe use in the field, thanks to high degree of protection
- Consistent EMC protection for reliable connection solutions in the industrial environment

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1627206             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | AB33                |
| Product key                          | ABRCDR              |
| Catalog page                         | Page 120 (C-2-2019) |
| GTIN                                 | 4055626408217       |
| Weight per piece (including packing) | 74.3 g              |
| Weight per piece (excluding packing) | 57.9 g              |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

## Technical data

### Notes

#### Safety note

##### Safety note

**WARNING:** The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.

- **WARNING:** Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.

- **WARNING:** Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.

- The products are suitable for applications in plant, controller, and electrical device engineering.

- When operating the connectors in outdoor applications, they must be separately protected against environmental influences.

- Assembled products may not be manipulated or improperly opened.

- Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at [phoenixcontact.com/products](https://www.phoenixcontact.com/products)).

- When using the product in direct connection with third-party manufacturers, the user is responsible.

- For operating voltages > 50 V AC, conductive connector housings must be grounded

- Ensure that the protective or functional ground has been properly connected.

- VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector

- Only use tools recommended by Phoenix Contact

- The installation notes/Design In documents online on the download page at [phoenixcontact.com/products](https://www.phoenixcontact.com/products) must be observed for this product.

- Operate the connector only when it is fully plugged in and interlocked.

- Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.

- Observe the minimum bending radius of the cable. Lay the cable without twisting it.

- The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

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## Product properties

|                        |                                   |
|------------------------|-----------------------------------|
| Product type           | Circular connectors (device side) |
| Data management status |                                   |
| Article revision       | 08                                |

## Material specifications

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

## Connector

### Insulating body

|                                      |                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------|
| Note                                 | Order information: Crimp contacts, 8 x Ø 1 mm, 5 x Ø 2 mm, order separately |
| Protection against electric shock    | IEC 61984 and VDE 0623                                                      |
| Coding                               | N                                                                           |
| Insulation body material             | PA 6.6                                                                      |
| Insertion/withdrawal cycles          | 100                                                                         |
| Connection method                    | Crimp connection                                                            |
| Contact switching type               | Pin                                                                         |
| Application                          | Hybrid                                                                      |
| Number of positions                  | 13                                                                          |
| Connection profile                   | 8+4+PE                                                                      |
| Contact diameter                     | 2 mm                                                                        |
| Litz wire cross-section              | 0.25 mm <sup>2</sup>                                                        |
| Litz wire cross-section              | 4 mm <sup>2</sup>                                                           |
| Rated current                        | 30 A                                                                        |
| Rated surge voltage                  | 6 kV                                                                        |
| Rated voltage (II/3) power contact   | 850 V DC                                                                    |
| Rated voltage (III/3) power contact  | 630 V AC                                                                    |
| Contact diameter                     | 1 mm                                                                        |
| Litz wire cross-section              | 0.06 mm <sup>2</sup>                                                        |
| Litz wire cross-section              | 1 mm <sup>2</sup>                                                           |
| Nominal current per signal contact   | 8 A                                                                         |
| Note                                 | for max. connection cross section                                           |
| Rated surge voltage                  | 1.5 kV                                                                      |
| Rated voltage (III/3) signal contact | 50 V                                                                        |
| Installation height                  | 2000 m                                                                      |

### Housing

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Housing material                  | CuZn                                |
| Type of locking                   | for standard and SPEEDCON interlock |
| Degree of protection (plugged in) | IP67                                |

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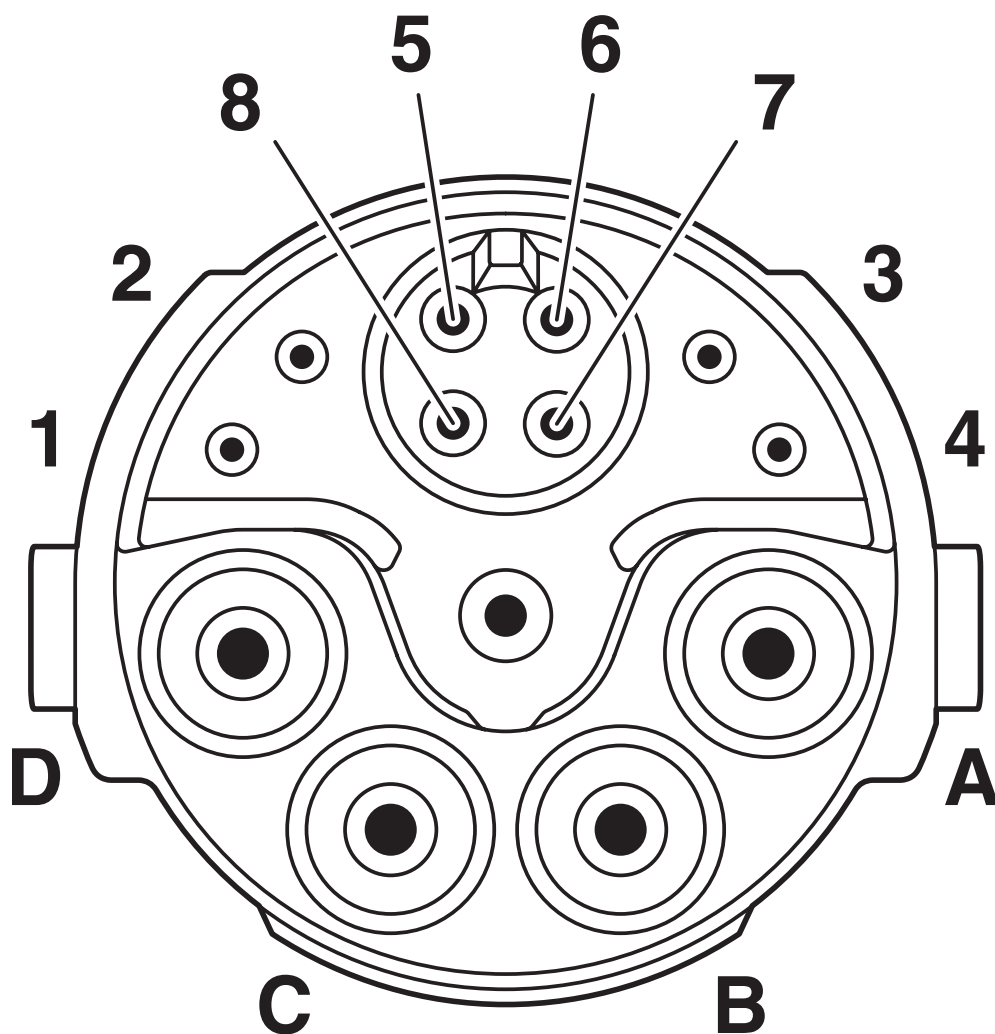
|             |     |
|-------------|-----|
| Thread type | M23 |
|-------------|-----|

## Environmental and real-life conditions

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Ambient conditions                       |                                        |
| Ambient temperature (operation)          | -40 °C ... 115 °C (see derating curve) |
| Ambient temperature (storage/transport)  | 15 °C ... 25 °C                        |
| Permissible humidity (storage/transport) | 50 % ... 65 %                          |

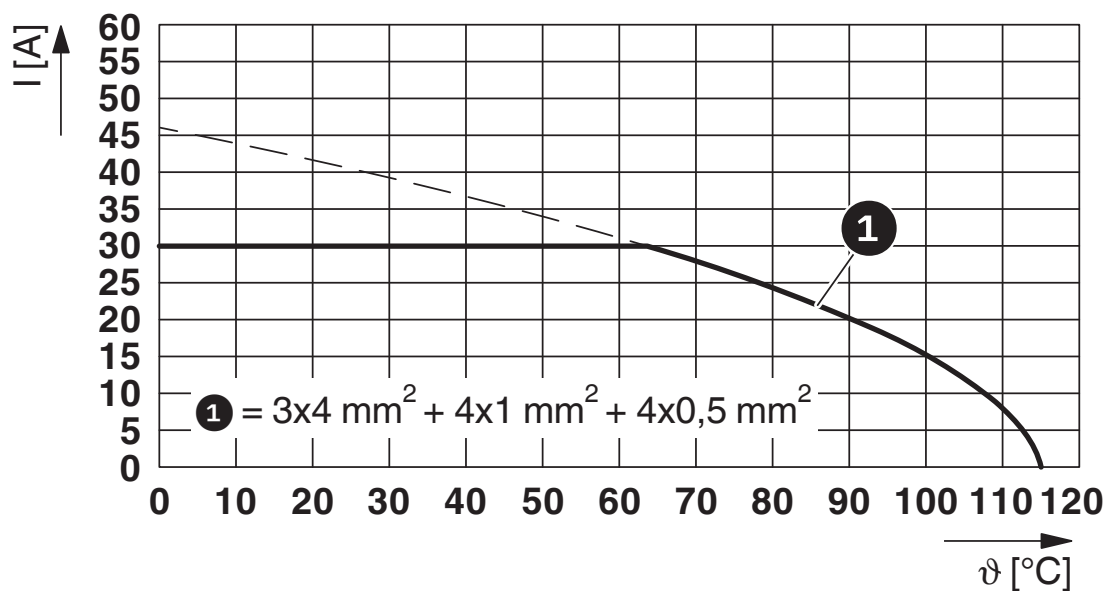
## Drawings

Schematic diagram



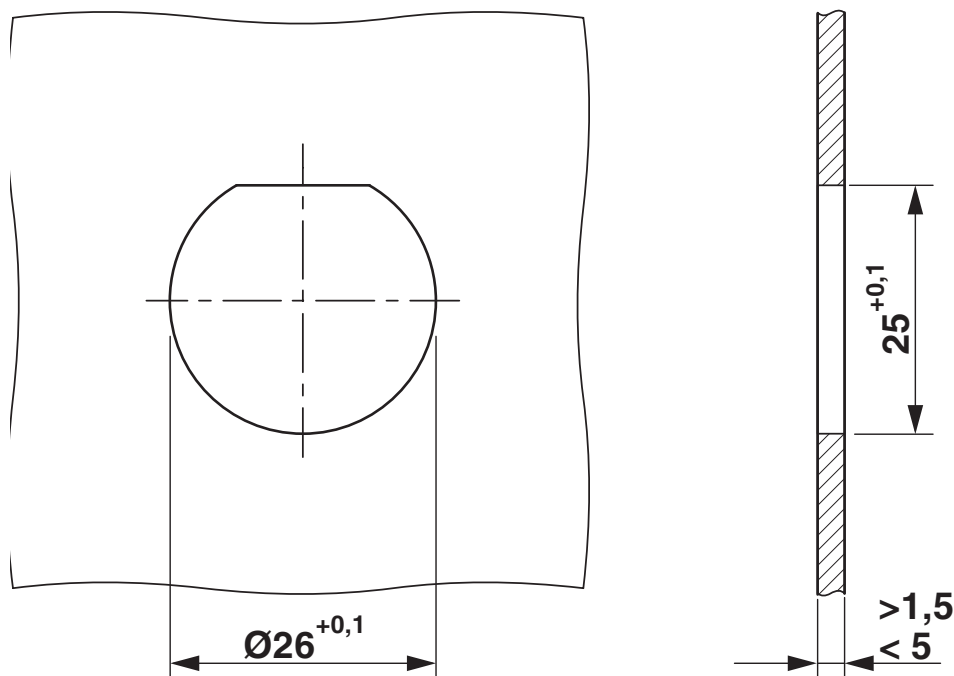
Pin assignment of pin, signal

Diagram



$I$  = current strength,  $\vartheta$  = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant

Dimensional drawing



Installation dimensions

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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1627206>



**cUL Recognized**

Approval ID: E153698-20181206



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440109 |
| ECLASS-12.0 | 27440109 |
| ECLASS-13.0 | 27440109 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003569 |
|----------|----------|

### UNSPSC

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

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%               |