

# CA-06P1N12HZ00 - Device connector rear mounting



1619850

<https://www.phoenixcontact.com/us/products/1619850>

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M23, Device connector rear mounting, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 6, Direction of rotation: Standard, contact connection type: Pin, Solder connection, Axial seal, coding: N, this item is expected to be lead-free from Q1 2027 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance. This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives.

## Your advantages

- Safe use in the field, thanks to high degree of protection
- Connector for flexible on-site assembly
- Consistent EMC protection for reliable transmission of signals
- Solder connection: proven connection technology for various litz wires
- Application-specific panel mounting optionally with thread or anti-rotation protection and lock nut

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1619850                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAER                         |
| GTIN                                 | 4046356821162                  |
| Weight per piece (including packing) | 50.3 g                         |
| Weight per piece (excluding packing) | 46.489 g                       |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|              |                                   |
|--------------|-----------------------------------|
| Product type | Circular connectors (device side) |
|--------------|-----------------------------------|

### Connector

#### Insulating body

|                                                        |                                          |
|--------------------------------------------------------|------------------------------------------|
| Coding                                                 | N                                        |
| Material (Insulating body)                             | PBT                                      |
| Material (Contact)                                     | CuZn                                     |
| Material (Contact surface)                             | Ni/Au                                    |
| Insertion/withdrawal cycles                            | 100                                      |
| Connection method                                      | Solder connection                        |
| Contact switching type                                 | Pin                                      |
| Application                                            | Signal                                   |
| Number of positions                                    | 6                                        |
| Direction of rotation                                  | Standard                                 |
| Connection profile                                     | 6                                        |
| Number Contact (Contact group 1)                       | 0                                        |
| Rated voltage Contact (Contact group 1)                | 48 V AC                                  |
|                                                        | 74 V DC                                  |
| Rated surge voltage                                    | 1.5 kV                                   |
| Overvoltage category                                   | III                                      |
| Degree of pollution                                    | 3                                        |
| Number Contact (Contact group 2)                       | 6                                        |
| Diameter Contact (Contact group 2)                     | 2 mm                                     |
| Litz wire cross-section max. Contact (Contact group 2) | 2.5 mm <sup>2</sup>                      |
| Rated current Contact (Contact group 2)                | 20 A (for max. connection cross section) |

#### Housing

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Type                              | Feed-through header                  |
| Thread type                       | M23                                  |
| Design                            | straight                             |
| Type of locking                   | for standard and SPEEDCON interlock  |
| Pg screw connection               | none                                 |
| Mounting type                     | Rear wall/screw mounting (M25 x 1,5) |
| Assembly note                     | Central fastening                    |
| Material (Housing)                | GD-Zn                                |
| Material (Rotating parts)         | CuZn                                 |
| Degree of protection (plugged in) | IP67                                 |
| Seal for the device               | Axial seal                           |

### Environmental and real-life conditions

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## Ambient conditions

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

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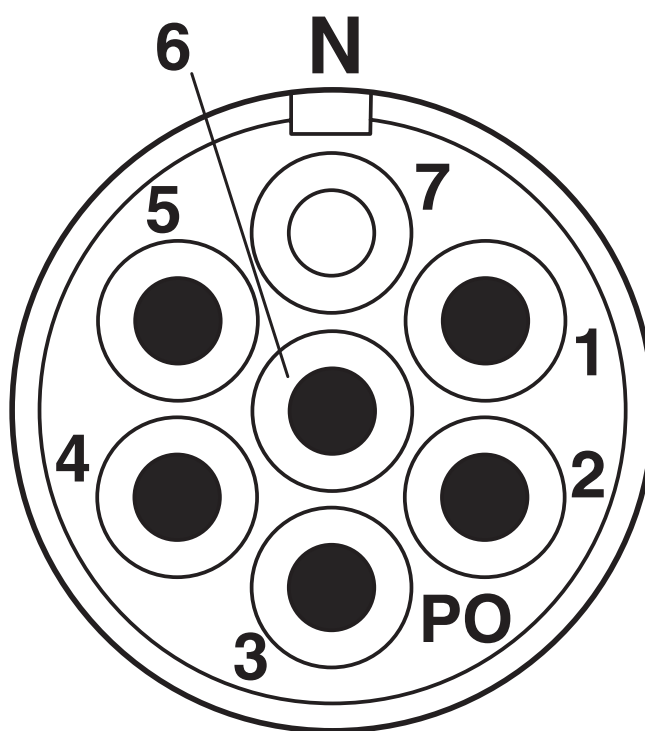
## Drawings

Schematic diagram



Connector pin assignment

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1619850>

|  <b>cUL Recognized</b><br>Approval ID: E335019-20141210 |                                |                                |                   |                               |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                                          | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                    |                                |                                |                   |                               |
|                                                                                                                                          | 48 V                           | 10 A                           | 14                | -                             |

|  <b>UL Recognized</b><br>Approval ID: E335019-20141210 |                                |                                |                   |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                                         | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                   |                                |                                |                   |                               |
|                                                                                                                                         | 48 V                           | 20 A                           | 14                | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

### ETIM

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

### 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                                | b8468e83-eb0b-4a11-a804-c464a1d8a09c |

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