

M23-09S1N8AWB00S - Device connector front mounting

PHOENIX CONTACT

1132740  
<https://www.phoenixcontact.com/us/products/1132740>

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M23, Device connector front mounting, series: M23 PRO, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, 4x Ø2,7, flange dimensions: 26 mm x 26 mm, coding: N, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

Your advantages

- Solutions with cross-manufacturer compatibility for standard and fast locking systems
- Modern, consistent design for highly convenient operation
- Crimping connection: vibration- and temperature-resistant assembly
- All housing can be fitted with pin or socket contacts
- Safe use in the field, thanks to high degree of protection

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1132740       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB30          |
| Product key                          | ABRABL        |
| GTIN                                 | 4063151238452 |
| Weight per piece (including packing) | 41.1 g        |
| Weight per piece (excluding packing) | 41 g          |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |



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## Technical data

### Notes

|                    |  |
|--------------------|--|
| Order information: | Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately |
| Notes on operation | Please observe the derating curve.                     |

### 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> ).  |
|             | • 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> 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.  |

|             |   |
|-------------|---|
| Safety note | • 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 |



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warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

## Product properties

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

## Data management status

|                  |    |
|------------------|----|
| Article revision | 04 |
|------------------|----|

## Material specifications

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

## Connector

### Insulating body

|                             |   |
|-----------------------------|---|
| Note                        | Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately |
| Coding                      | N   |
| Insulation body material    | PA 6.6  |
| Insertion/withdrawal cycles | 100   |
| Connection method           | Crimp connection  |
| Contact switching type      | Socket  |
| Application                 | Signal  |
| Number of positions         | 9   |
| Direction of rotation       | Standard  |
| Connection profile          | 8+1   |

|  |      |
|--|------|
| Contact diameter <b>Power contacts</b> | 2 mm |
|--|------|

|  |                     |
|--|---------------------|
| Litz wire cross-section <b>Power contacts</b> min. | 0.5 mm <sup>2</sup> |
|--|---------------------|

|  |                     |
|--|---------------------|
| Litz wire cross-section <b>Power contacts</b> max. | 2.5 mm <sup>2</sup> |
|--|---------------------|

|                                     |      |
|-------------------------------------|------|
| Rated current <b>Power contacts</b> | 20 A |
|-------------------------------------|------|

|      |                                   |
|------|-----------------------------------|
| Note | for max. connection cross section |
|------|-----------------------------------|

|               |       |
|---------------|-------|
| Rated voltage | 300 V |
|---------------|-------|

|                     |        |
|---------------------|--------|
| Rated surge voltage | 2.5 kV |
|---------------------|--------|

|                      |    |
|----------------------|----|
| Overvoltage category | II |
|----------------------|----|

|                     |   |
|---------------------|---|
| Degree of pollution | 3 |
|---------------------|---|

|   |      |
|---|------|
| Contact diameter <b>Signal contacts</b> | 1 mm |
|---|------|

|   |                      |
|---|----------------------|
| Litz wire cross-section <b>Signal contacts</b> min. | 0.08 mm <sup>2</sup> |
|---|----------------------|

|   |                   |
|---|-------------------|
| Litz wire cross-section <b>Signal contacts</b> max. | 1 mm <sup>2</sup> |
|---|-------------------|

|                                    |     |
|------------------------------------|-----|
| Nominal current per signal contact | 8 A |
|------------------------------------|-----|

|      |                                   |
|------|-----------------------------------|
| Note | for max. connection cross section |
|------|-----------------------------------|

|                              |       |
|------------------------------|-------|
| Rated voltage Signal contact | 300 V |
|------------------------------|-------|

|                     |        |
|---------------------|--------|
| Rated surge voltage | 2.5 kV |
|---------------------|--------|

|                      |    |
|----------------------|----|
| Overvoltage category | II |
|----------------------|----|



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|                     |        |
|---------------------|--------|
| Degree of pollution | 3      |
| Installation height | 2000 m |

## Housing

|                                   |   |
|-----------------------------------|---|
| Housing material                  | GD-Zn   |
| Flange dimensions                 | 26 mm x 26 mm                                 |
| Type of locking                   | for standard and ONECLICK fast locking system |
| Degree of protection (plugged in) | IP66 / IP68 (2m / 24h) / IP69K                |
| Thread type                       | M23   |

## Environmental and real-life conditions

### Ambient conditions

|  |                                     |
|--|-------------------------------------|
| Degree of protection                     | IP68                                |
| Ambient temperature (operation)          | -40 °C ... 105 °C (see to derating) |
| Ambient temperature (storage/transport)  | 15 °C ... 25 °C                     |
| Altitude                                 | 2000 m                              |
| Permissible humidity (storage/transport) | 50 % ... 65 %                       |
| Permanent temperature                    | 125 °C (DIN EN 60512-9-2 / 1000 h)  |



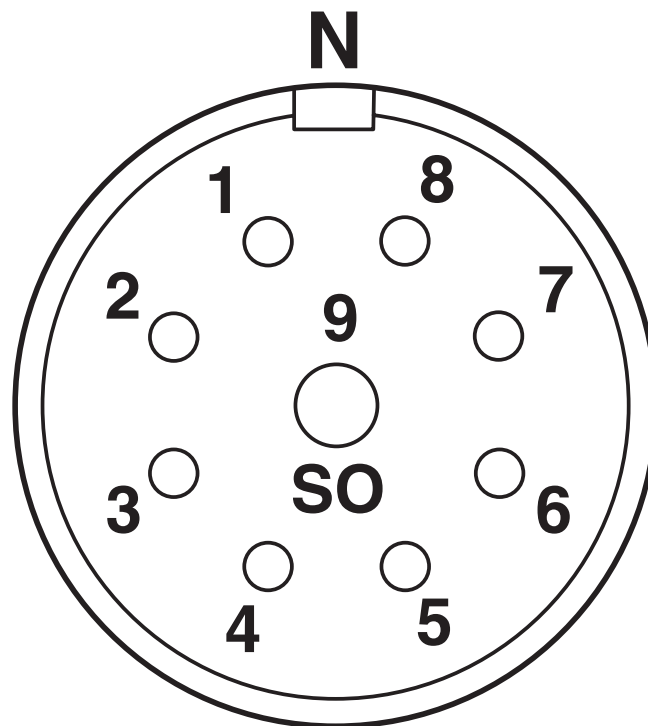
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## Drawings

Schematic diagram



Connector pin assignment

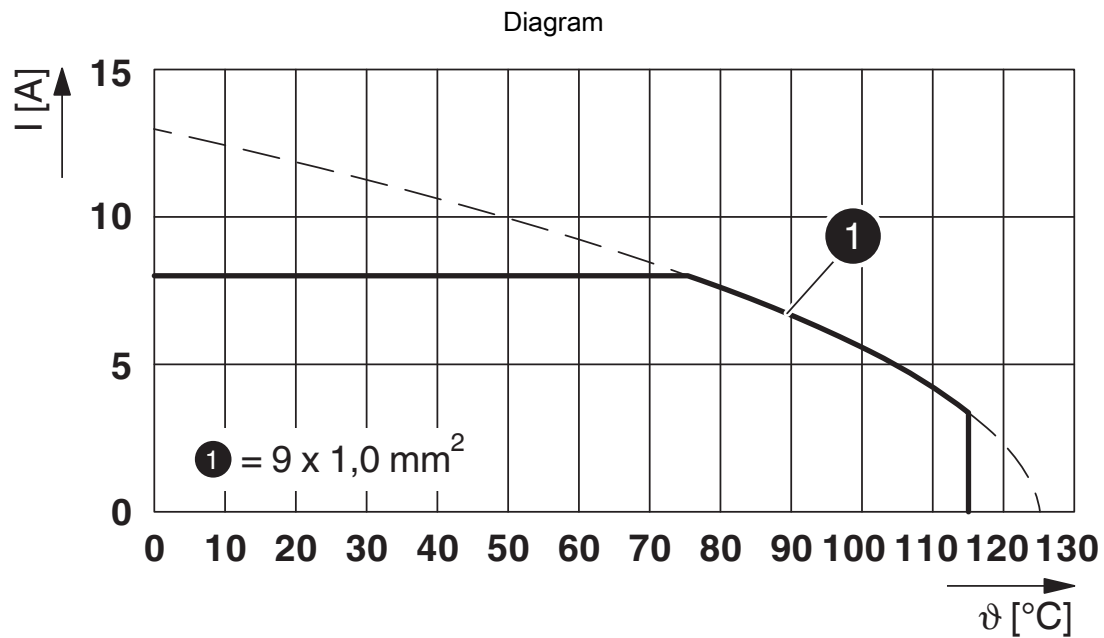


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$I$  = current strength,  $\vartheta$  = ambient temperature, 9x 8 A



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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 |
|-------------|----------|



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## 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%               |



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## Accessories

### CA-Z0001 - Contact removal tool

1620699

<https://www.phoenixcontact.com/us/products/1620699>



Unlocking tool for contact carriers for snapping in the M23 signal device connectors

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### RC-Z2220 - Contact insertion and removal tool

1604360

<https://www.phoenixcontact.com/us/products/1604360>



Positioning and removal tool for RC crimp contacts, pin/socket diameter: 2 mm



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## RC-Z2490 - Contact insertion and removal tool

1611803

<https://www.phoenixcontact.com/us/products/1611803>



Positioning and unlocking tool for RC crimp contacts (D-SUB) for pin/socket, diameter: 2 mm

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## RC-Z2097 - Contact insertion and removal tool

1604251

<https://www.phoenixcontact.com/us/products/1604251>



Insertion and removal tool for RC crimp contacts for pin/socket, diameter: 1 mm, connection cross-section: 0.08 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>



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## RC-Z2494 - Contact insertion and removal tool

1614123

<https://www.phoenixcontact.com/us/products/1614123>



Positioning and removal tool for RC crimp contacts, pin/socket diameter: 1 mm

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## RC-11S2000 - Crimp contact

1596772

<https://www.phoenixcontact.com/us/products/1596772>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241093



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## RC-12S2000 - Crimp contact

1599600

<https://www.phoenixcontact.com/us/products/1599600>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241093

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## RC-1KS2000 - Crimp contact

1602998

<https://www.phoenixcontact.com/us/products/1602998>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241572



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<https://www.phoenixcontact.com/us/products/1132740>

## RC-22S2000 - Crimp contact

1603327

<https://www.phoenixcontact.com/us/products/1603327>



Crimp contact, Socket, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Single contact, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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## RC-21S2000 - Crimp contact

1603315

<https://www.phoenixcontact.com/us/products/1603315>



Crimp contact, Socket, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>, Single contact, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)



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## RC-22S2300 - Crimp contact

1603330

<https://www.phoenixcontact.com/us/products/1603330>



Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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## RC-22S2400 - Crimp contact

1603332

<https://www.phoenixcontact.com/us/products/1603332>



Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)



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## RC-21S2300 - Crimp contact

1603318

<https://www.phoenixcontact.com/us/products/1603318>



Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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## RC-21S2400 - Crimp contact

1616500

<https://www.phoenixcontact.com/us/products/1616500>



Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)



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## RC-5SS2000 - Crimp contact

1603530

<https://www.phoenixcontact.com/us/products/1603530>



Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range: 0.5 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241633

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## RC-59S2000 - Crimp contact

1603501

<https://www.phoenixcontact.com/us/products/1603501>



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: 0.75 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241633



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## RC-5CS2000 - Crimp contact

1603517

<https://www.phoenixcontact.com/us/products/1603517>



Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range: 1 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241635

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## RC-5AS2000 - Crimp contact

1603509

<https://www.phoenixcontact.com/us/products/1603509>



Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241635



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## PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

<https://www.phoenixcontact.com/us/products/1055753>

Plastic protective cap, M23, degree of protection: IP20, series: M23 PRO



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## PROT-M23PRO-OT-IP67 - Plastic protective cap

1055749

<https://www.phoenixcontact.com/us/products/1055749>

Plastic protective cap, M23, degree of protection: IP67, series: M23 PRO Signal





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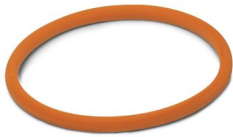
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## M23PRO-VIB-ORING-OR - Sealing ring

1521137

<https://www.phoenixcontact.com/us/products/1521137>

Vibration O-ring, optional accessory for M23 PRO device connectors



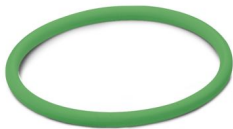
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## M23PRO-VIB-ORING-GN - Sealing ring

1521138

<https://www.phoenixcontact.com/us/products/1521138>

Vibration O-ring, optional accessory for M23 PRO device connectors





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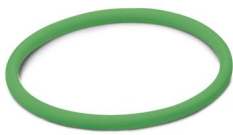
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## M23PRO-VIB-ORING-OR - Sealing ring

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Vibration O-ring, optional accessory for M23 PRO device connectors



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