# M23-12S1N8AW600S - Device connector front mounting

1629083

https://www.phoenixcontact.com/us/products/1629083

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The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

M23, Device connector front mounting, application: Signal, series: M23 PRO, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, flange dimensions: 28 mm x 28 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 | 1629083 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB30 |
| Product key | ABRABL |
| GTIN | 4055626762944 |
| Weight per piece (including packing) | 43.5 g |
| Weight per piece (excluding packing) | 26.532 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

# Technical data

## Notes

| | |
|---|---|
| Order information: | Order 12 x 1 mm crimp contacts separately |
| Notes on operation | Please observe the derating curve. |

### Safety note

| | |
|---|---|
| Safety note | • 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. |

## Product properties

| | |
|---|---|
| Product type | Circular connectors (device side) |
| Product family | M23 PRO |

## Material specifications

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

## Connector

### Insulating body

| | |
|---|---|
| Note | Order information: Order crimp contacts Ø 1 mm separately |
| Coding | N |
| Material (Insulating body) | PA 6.6 |
| Insertion/withdrawal cycles | 100 |
| Connection method | Crimp connection |
| Contact switching type | Socket |
| Application | Signal |
| Number of positions | 12 |
| Direction of rotation | Standard |
| Connection profile | 12 |
| Installation height | 2000 m |
| Number (Signal contacts) | 12 |
| Contact diameter (Signal contacts) | 1 mm |
| Litz wires Min. cross section (Signal contacts) | 0.08 mm² |
| Litz wires Max. cross section (Signal contacts) | 1 mm² |
| Rated current Contact (Signal contacts) | 8 A (for max. connection cross section) |
| Rated voltage Contact (Signal contacts) | 150 V |
| Rated surge voltage | 2.5 kV |
| Overvoltage category | III |
| Degree of pollution | 3 |

### Housing

| | |
|---|---|
| Type | Flange housing |
| Thread type | M23 |

| | |
|---|---|
| Design | straight |
| Type of locking | for standard and ONECLICK fast locking system |
| Mounting type | Front mounting/square flange (4x Ø 3.2 mm) |
| Flange dimensions | 28 mm x 28 mm |
| Housing material | GD-Zn |
| Seal material | FKM |
| Degree of protection (plugged in) | IP66/IP68 (2 m / 24 h) IP69K |

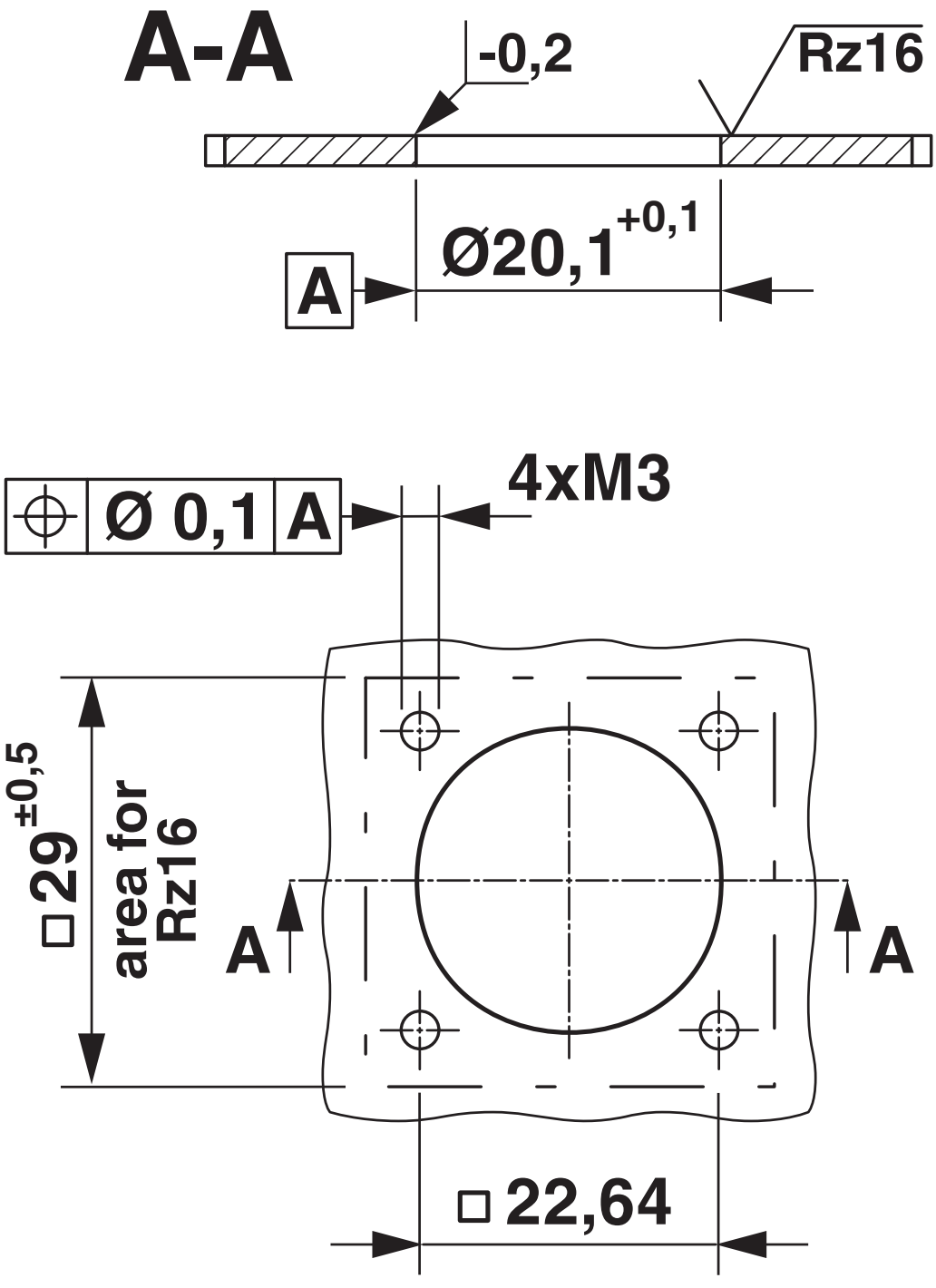
## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP68 |
| Ambient temperature (operation) | -40 °C ... 105 °C (see to derating) |
| Altitude | 2000 m |
| Permanent temperature | 125 °C (DIN EN 60512-9-2 / 1000 h) |

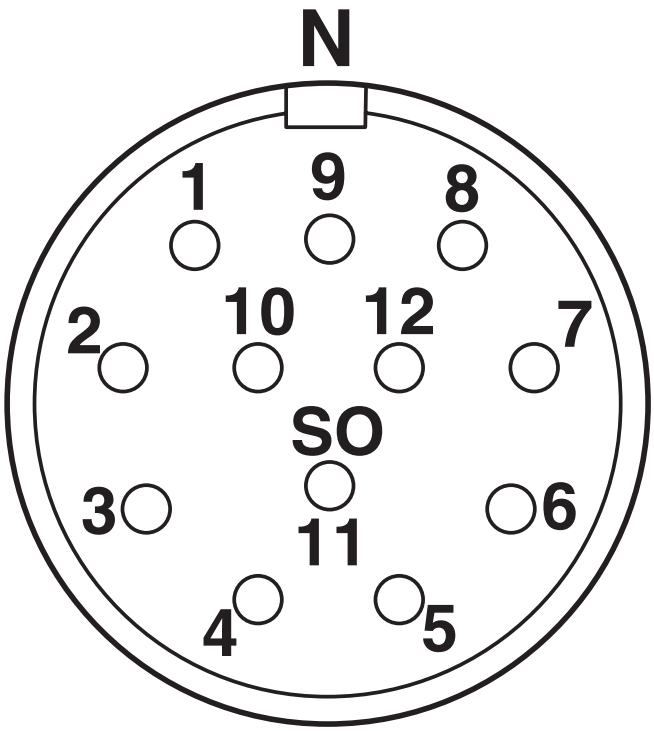
## Drawings

Dimensional drawing



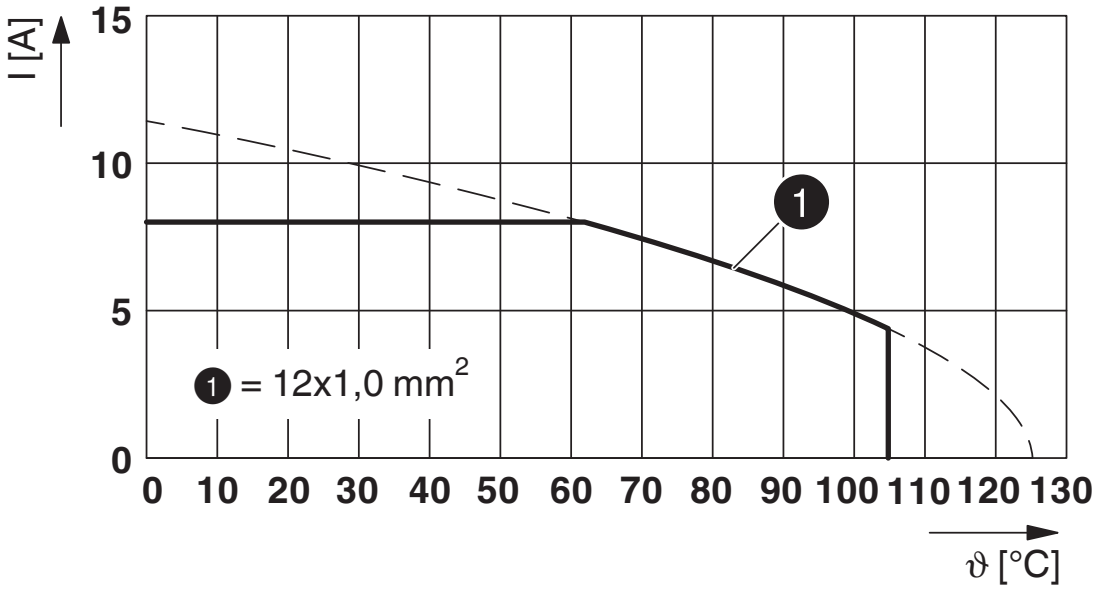

Installation dimensions

Schematic diagram




Connector pin assignment

Diagram




I = current strength, ϑ = ambient temperature, 12x 8 A

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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1629083

**cUL Recognized**
Approval ID: E335019-20141210

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## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | 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% |


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