# SF-5ES1N8AY000 - Device connector front mounting with knurled nut

1607082

https://www.phoenixcontact.com/us/products/1607082

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CRIMP



The figure shows the 8-pos. (4+3+PE) product version

Device connector front mounting with knurled nut, application: Power, straight, Screw locking mechanism, M23, number of positions: 5+PE, contact connection type: Socket, Axial O-ring, shielded: yes, flange dimensions: 26 mm x 26 mm, degree of protection: IP67, number of positions: 6, connection method: Crimp connection, series: SF, 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.

## Commercial data

| | |
|---|---|
| Item number | 1607082 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB32 |
| Product key | ABRBFN |
| GTIN | 4046356278676 |
| Weight per piece (including packing) | 80.4 g |
| Weight per piece (excluding packing) | 65.99 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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## Technical data

### Notes

| | |
|---|---|
| Order information: | Order crimp contacts 6 x Ø 2 mm separately |
| Note on application | Series SF connectors are not compatible with series M23 PRO and must not be combined. |

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. |

### Mounting

| | |
|---|---|
| Mounting type | Front mounting/square flange (4x Ø 3.2 mm) |

### Product properties

| | |
|---|---|
| Product type | Circular connectors (device side) |
| Series | SF |
| Application | Power |
| Number of positions | 6 |
| Connection profile | 5+PE |
| Shielded | yes |
| Coding | N |
| Thread type | M23 |

### Dimensions

Housing

| | |
|---|---|
| Flange dimensions | 26 mm x 26 mm |

### Material specifications

| | |
|---|---|
| Material Housing | GD-Zn |
| Material Rotating parts | CuZn |
| Material Housing surface | Ni |
| Material Insulating body | PA 6.6 |
| Material Seal | FPM (O-ring) |

### Electrical properties

Contact: Contact group 1

| | |
|---|---|
| Contact diameter | 2 mm |
| Nominal current $I_N$ | 30 A |
| Nominal voltage $U_N$ | 630 V |
| Overvoltage category | III |

| | |
|---|---|
| Degree of pollution | 3 |
| Rated surge voltage | 6 kV |

Contact: Contact group 2

| | |
|---|---|
| Contact diameter | 2 mm |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Rated surge voltage | 4 kV |

## Connection data

Conductor connection

| | |
|---|---|
| Connection method | Crimp connection |
| Contact connection type | Socket |

## Connector

| | |
|---|---|
| Type | straight |

Connection 1

| | |
|---|---|
| Head design | Socket |

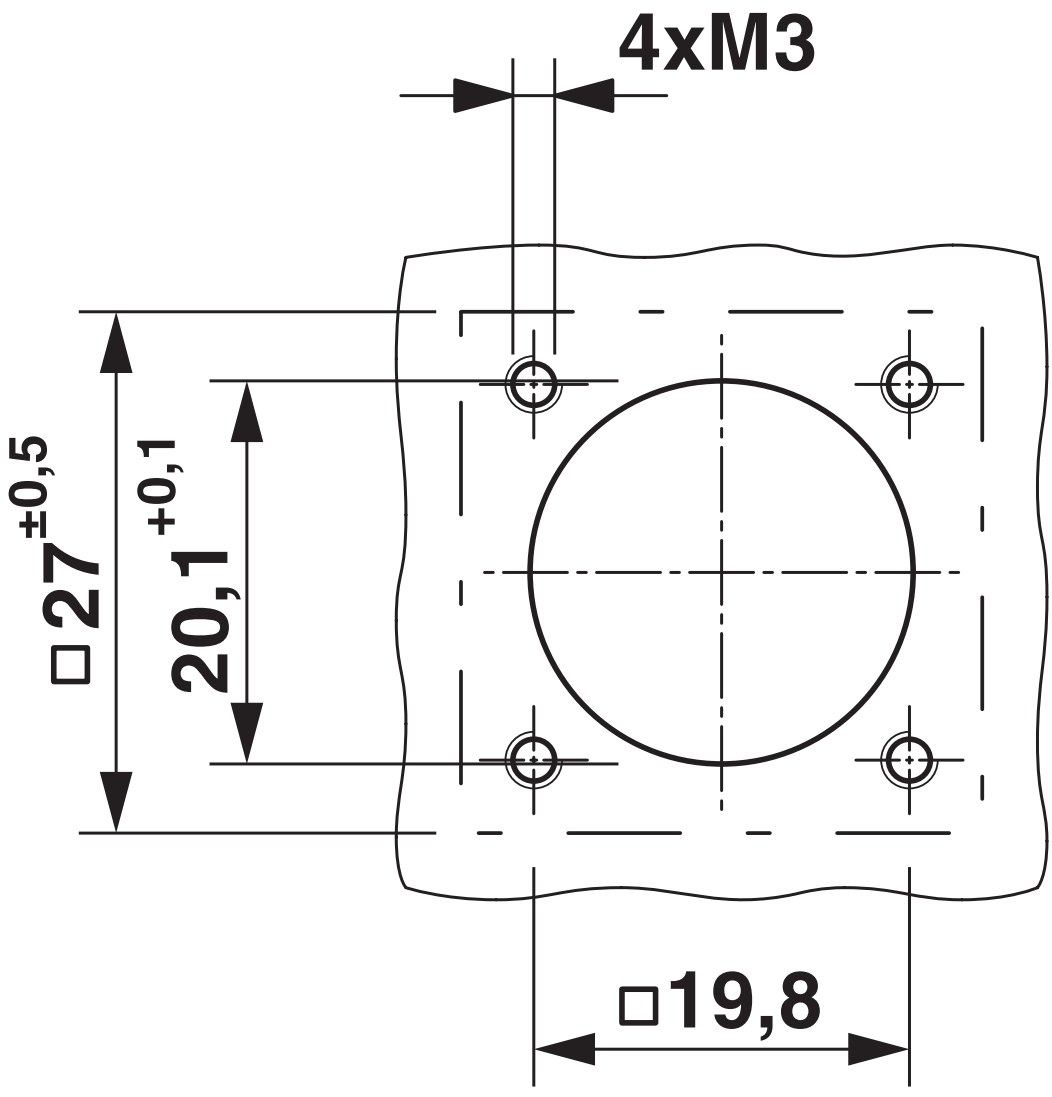
## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP67 |
| | IP67 |
| Ambient temperature (operation) | -40 °C ... 125 °C |
| Altitude | 3000 m |

## Drawings

Dimensional drawing



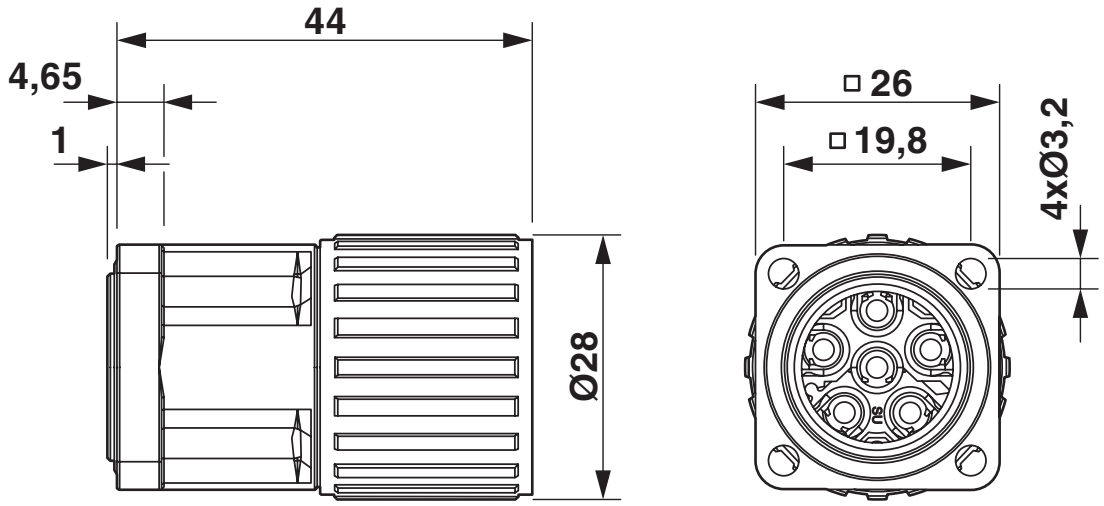

Installation dimensions

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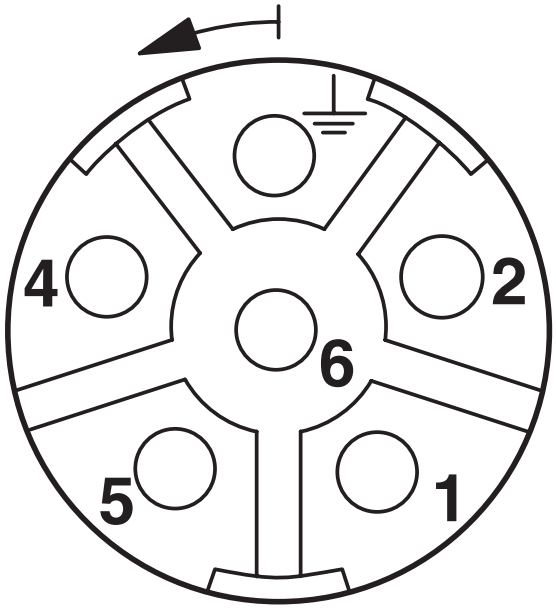
https://www.phoenixcontact.com/us/products/1607082

Dimensional drawing



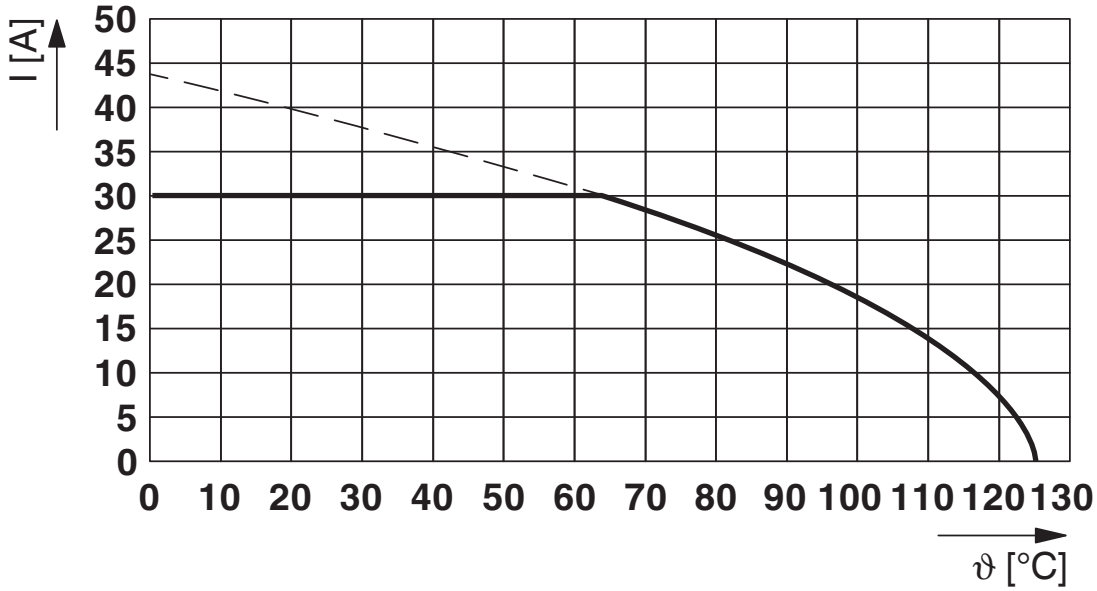

Dimensional drawing

Schematic diagram




Connector pin assignment

Diagram


I [A]
50
45
40
35
30
25
20
15
10
5
0
0 10 20 30 40 50 60 70 80 90 100 110 120 130
ϑ [°C]

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1607082

**cUL Recognized**
Approval ID: E153698-20041116

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 18 A | 12 | - |

**UL Recognized**
Approval ID: E153698-20041116

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 600 V | 27 A | 12 | - |

## 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 |
| 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 | a994eb38-0717-493f-958f-510482b3eed4 |


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