

# SF-7EE1N8AS000 - Panel feed-through



1605567

<https://www.phoenixcontact.com/us/products/1605567>

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Panel feed-through, straight, M23, M23, number of positions: 4+3+PE, contact connection type: Socket/pin, Axial O-ring, 4xM3, shielded: yes, degree of protection: IP67, cable diameter range: 0 mm ... 0 mm, number of positions: 8, connection method: Crimp connection, series: SF, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241924

## Commercial data

Item number	1605567
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB32
Product key	ABRBFJ
Catalog page	Page 159 (C-2-2019)
GTIN	4046356253635
Weight per piece (including packing)	192.53 g
Weight per piece (excluding packing)	192.53 g
Customs tariff number	85444290
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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## Mounting

Mounting	4x M3
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## Product properties

Product type	Circular connectors (device side)
Series	SF
Application	Power
Number of positions	8
Connection profile	4+3+PE
Shielded	yes
Coding	N
Thread type	M23

## Material specifications

Seal material	FPM
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM

## Electrical properties

### Contact

Max. current	30 A
Nominal voltage $U_N$	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	4 kV

### Contact

Max. current	9 A
Nominal voltage $U_N$	250 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV

## Connection data

### Conductor connection

Connection method	Crimp connection
Contact connection type	Socket/pin

## Connector

Type	straight
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### Connection 1

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Head design	Socket
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Connection 2

Head design	Plug
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Cable/line

External cable diameter	0 mm ... 0 mm
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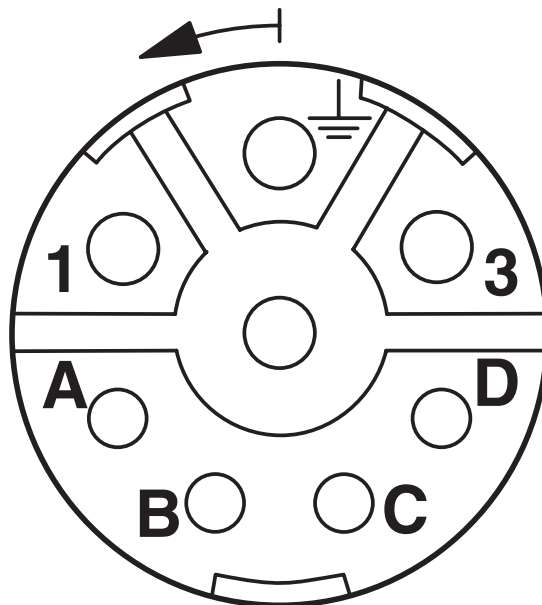
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 125 °C
Ambient temperature (storage/transport)	15 °C ... 25 °C
Altitude	3000 m
Permissible humidity (storage/transport)	50 % ... 65 %

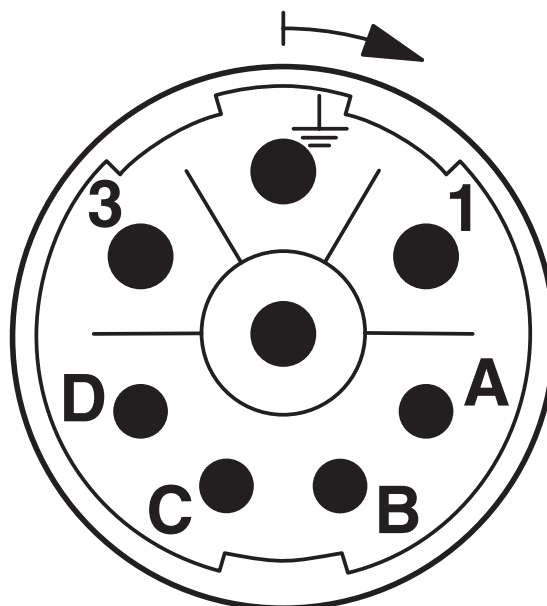
## Drawings

Schematic diagram



Socket pin assignment

Schematic diagram

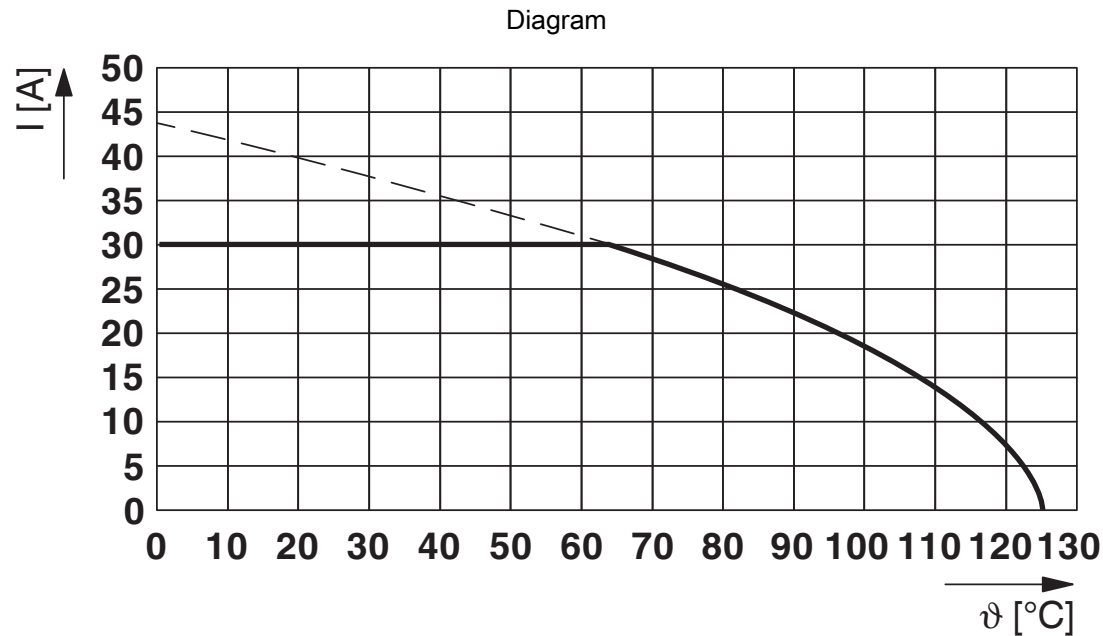


Pin assignment of pin

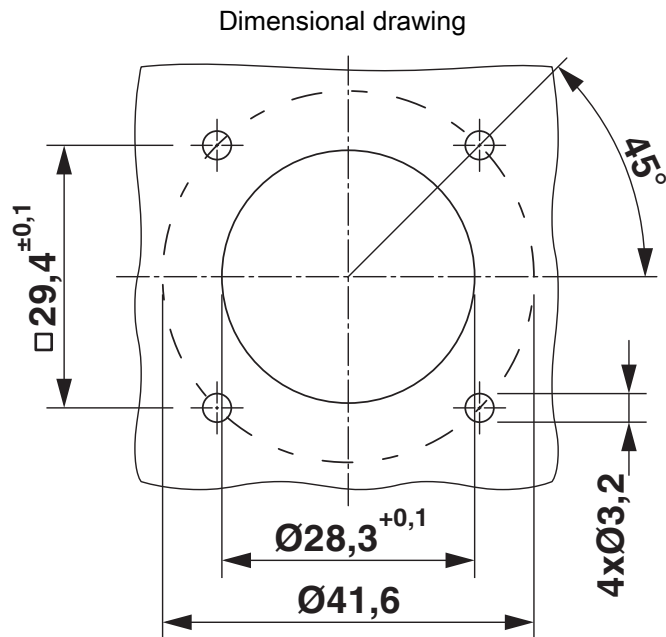
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I = current strength, T = ambient temperature



Installation dimensions


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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1605567>

 <b>cUL Recognized</b> Approval ID: E153698-20041116				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	600 V	18 A	12 - 12	-

 <b>UL Recognized</b> Approval ID: E153698-20041116				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	600 V	27 A	12 - 12	-

<b>cULus Recognized</b>				
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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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### 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	629760da-ca22-43ab-bf0d-a2d38025d6a5

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## Accessories

### SF-Z0019 - Protective cap

1607449

<https://www.phoenixcontact.com/us/products/1607449>



Plastic protection cap, with eye, IP40 for connectors with M23 external thread, RF, SF series

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### RC-Z2469 - Protective cap

1611797

<https://www.phoenixcontact.com/us/products/1611797>



Plastic protection cap, antistatic, for RF, SF, CA, RC series connectors, with M23 external thread

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### SC-Z2319 - Metal protective cap

1605456

<https://www.phoenixcontact.com/us/products/1605456>

Metal protection cap for power connectors with M23 external thread



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### SC-Z2320 - Metal protective cap

1605457

<https://www.phoenixcontact.com/us/products/1605457>

Metal protection cap with steel wire for power connectors with M23 external thread



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## SF-Z0028 - Torque screwdriver

1607456

<https://www.phoenixcontact.com/us/products/1607456>

Torque screwdriver, series: RC, UC, SH, SF



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## SF-Z0027 - Hook wrench

1607455

<https://www.phoenixcontact.com/us/products/1607455>

Hook wrench, series: RC, UC, RF, SF



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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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