

SF-7EE1N8AS000X - Panel feed-through



1241924

<https://www.phoenixcontact.com/gb/products/1241924>

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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, cable diameter range: 0 mm ... 0 mm, number of positions: 8, connection method: Crimp connection, series: SF, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

Commercial data

Item number	1241924
Packing unit	9 pc
Minimum order quantity	9 pc
Sales key	ABRBFJ
Product key	ABRBFJ
GTIN	4063151397326
Weight per piece (including packing)	184.18 g
Weight per piece (excluding packing)	173.339 g
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 %

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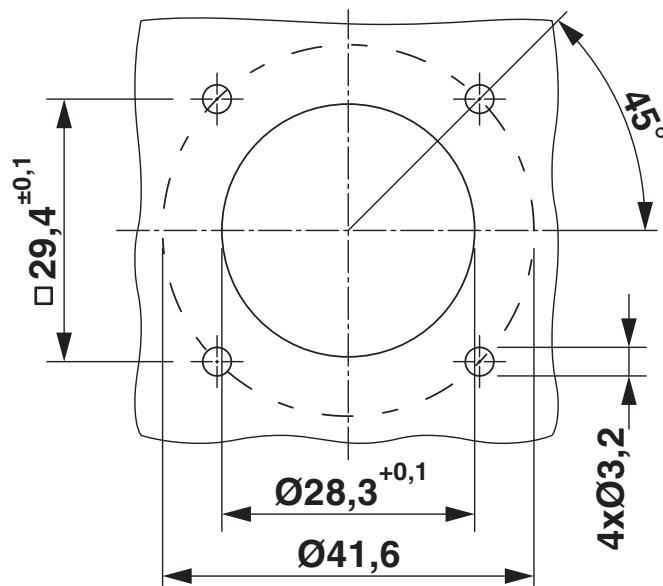
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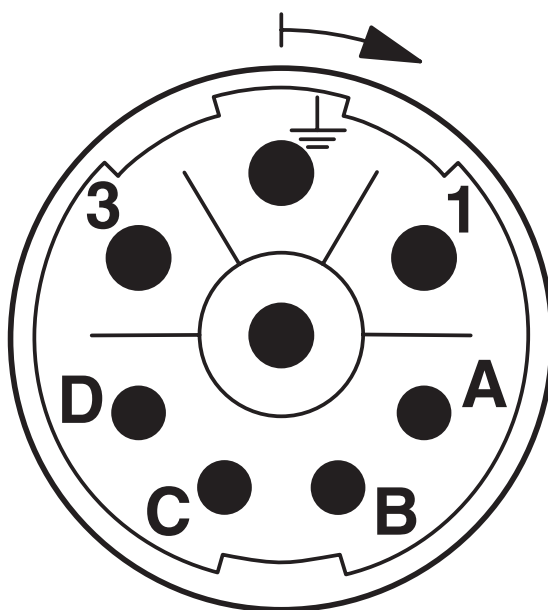
Drawings

Dimensional drawing



Installation dimensions

Schematic diagram

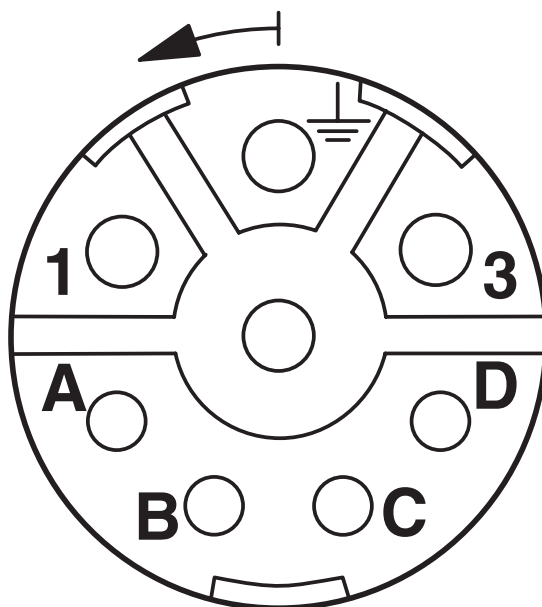


Pin assignment of pin

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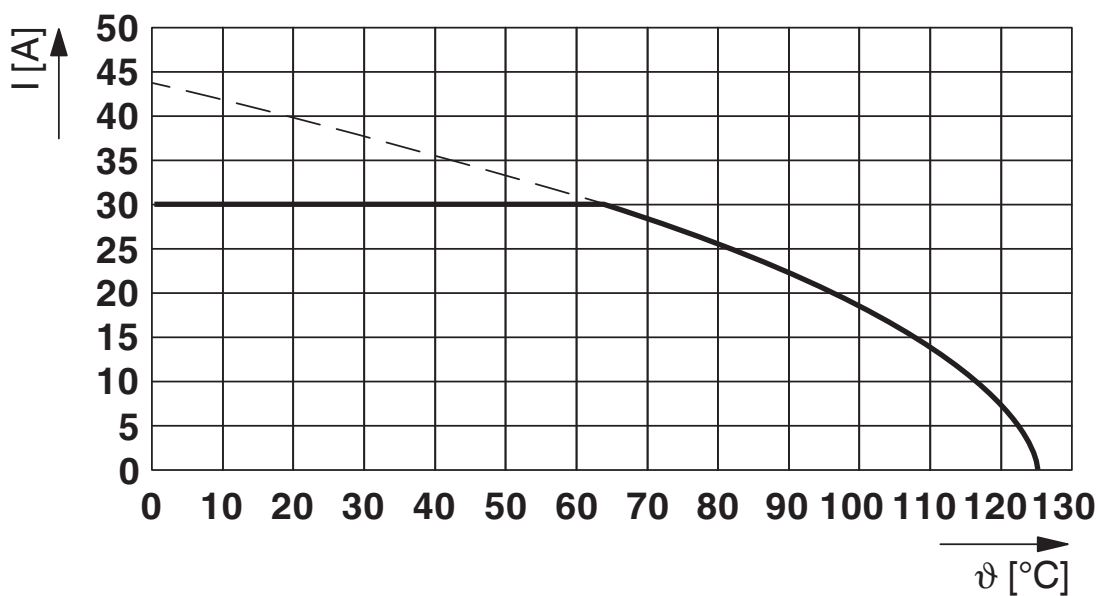
<https://www.phoenixcontact.com/gb/products/1241924>

Schematic diagram



Socket pin assignment

Diagram



I = current strength, T = ambient temperature

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1241924>

 cUL Recognized Approval ID: E153698-20041116				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	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
	600 V	27 A	12	-

cULus Recognized				
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Classifications

ECLASS

ECLASS-13.0	27440109
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ETIM

ETIM 9.0	EC002635
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk