SF-5EP1N8AWK00 - Device connector front mounting

1607043

https://www.phoenixcontact.com/us/products/1607043

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CRIMP



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

Device connector front mounting, application: Power, straight low type, Screw locking mechanism, M23, number of positions: 5+PE, contact connection type: Pin, Axial O-ring, shielded: yes, flange dimensions: 28 mm x 28 mm, cable diameter range: 0 mm ... 0 mm, 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	1607043
Packing unit	12 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFL
GTIN	4046356182560
Weight per piece (including packing)	42.92 g
Weight per piece (excluding packing)	33.739 g
Customs tariff number	85366990
Country of origin	DE

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	28 mm x 28 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
Min. cross section	0.14 mm²
Max. cross section	4 mm²
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
Min. cross section	0.14 mm²
Max. cross section	4 mm²
Nominal current I_N	9 A
Nominal voltage U_N	250 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	4 kV

Connection data

Conductor connection

Connection method	Crimp connection
Contact connection type	Pin

Connector

Type	straight low type

Cable/line

External cable diameter	0 mm ... 0 mm

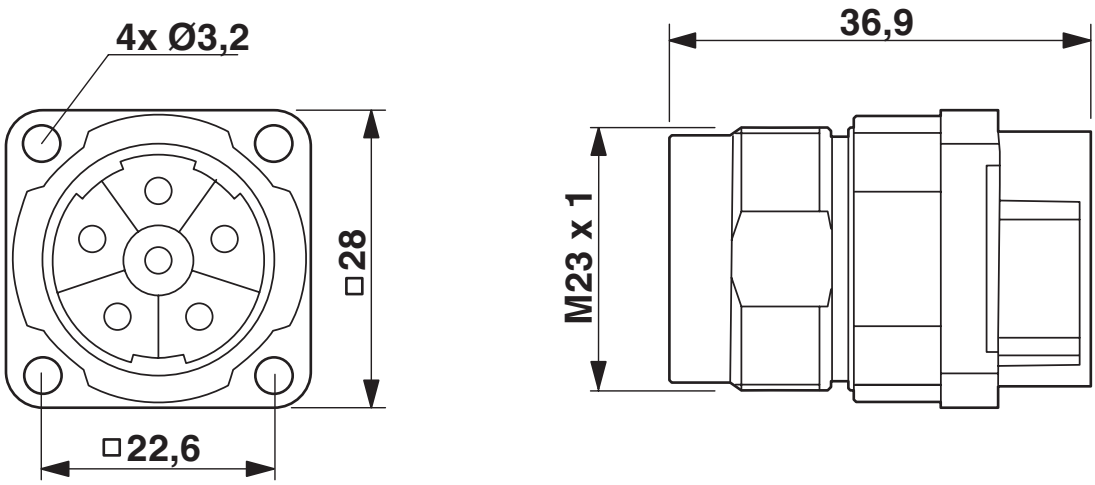
Environmental and real-life conditions

Ambient conditions

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

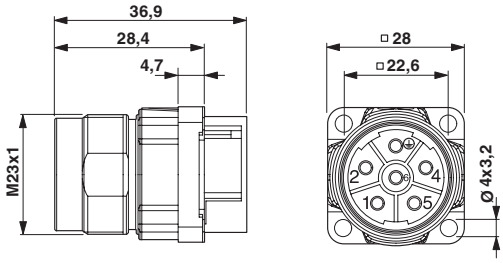
Drawings

Dimensional drawing



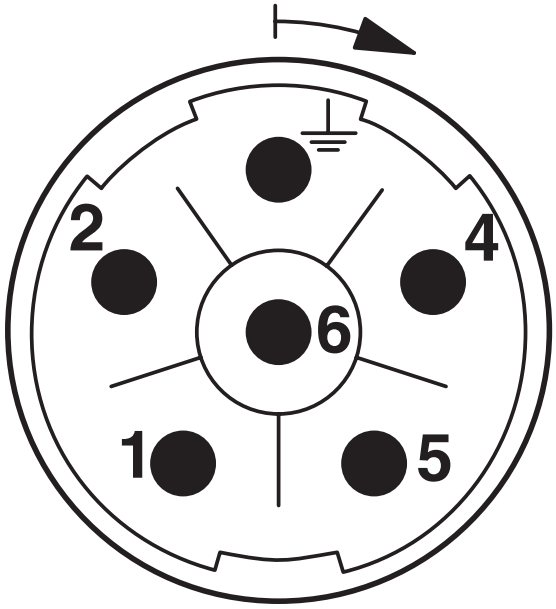
SF-...P1N8AWK00

Dimensional drawing



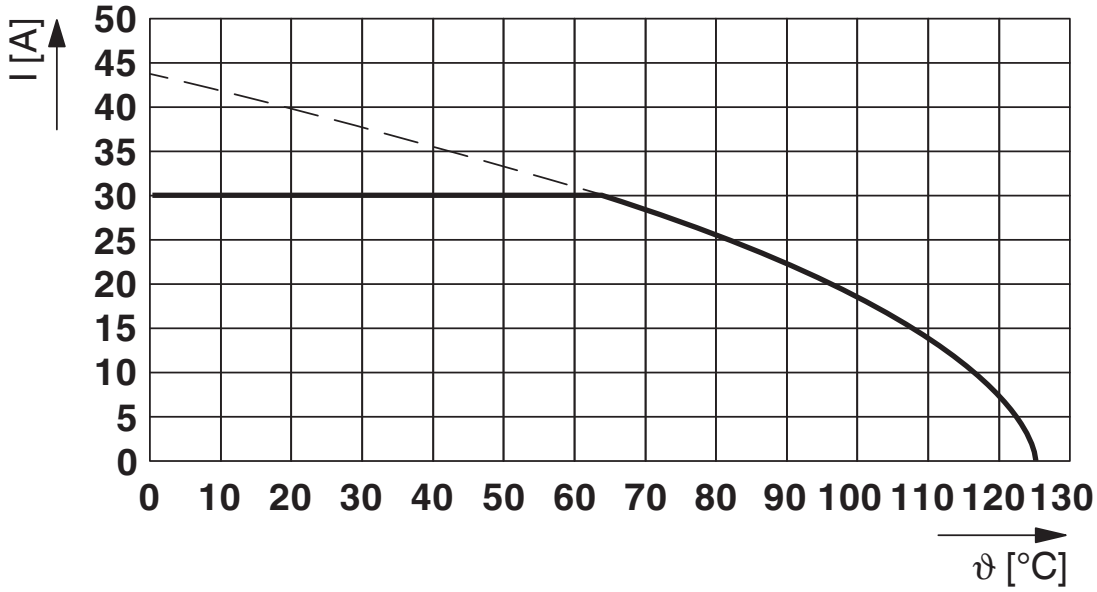
Installation dimensions SF-...P1N8AWK00

Schematic diagram



Connector pin assignment

Diagram



I = current strength, T = ambient temperature

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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