SF-7EP1N8AWA00 - Device connector front mounting

1605589

https://www.phoenixcontact.com/us/products/1605589

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CRIMP



Device connector front mounting, application: Power, straight, for standard and SPEEDCON interlock, M23, number of positions: 4+3+PE, contact connection type: Pin, Axial O-ring, shielded: yes, flange dimensions: 26 mm x 26 mm, number of positions: 8, 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. Alternative products: 1628777

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly

Commercial data

Item number	1605589
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFL
GTIN	4046356182218
Weight per piece (including packing)	48.5 g
Weight per piece (excluding packing)	33.912 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
Note on application	Series SF connectors are not compatible with series M23 PRO and must not be combined.
General	Compatible with mating connectors with SPEEDCON or M23 standard knurled nuts

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	8
Connection profile	4+3+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)
Flammability rating according to UL 94	V0
Seal material	FPM

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	1 mm
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

Connection 1

Head design	Pin

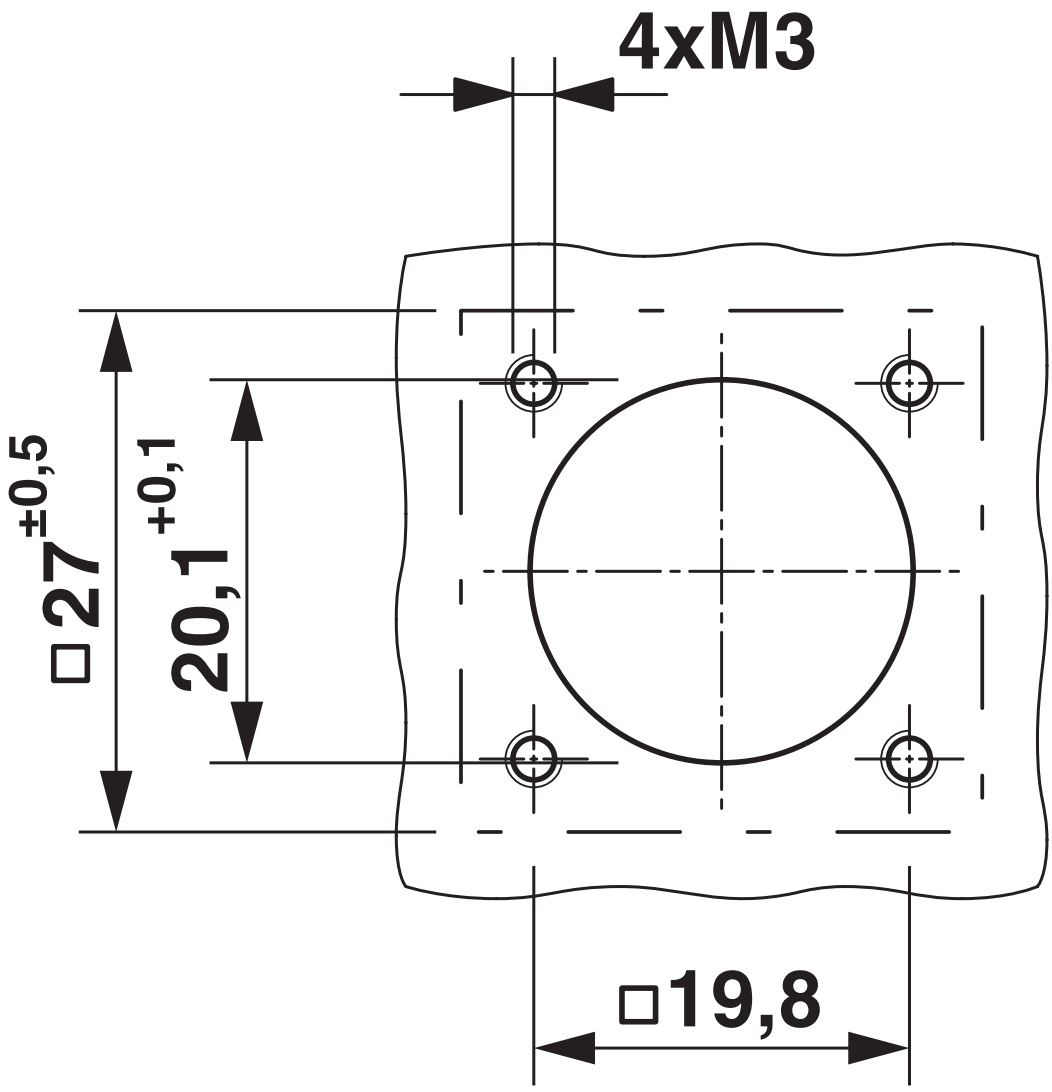
Environmental and real-life conditions

Ambient conditions

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

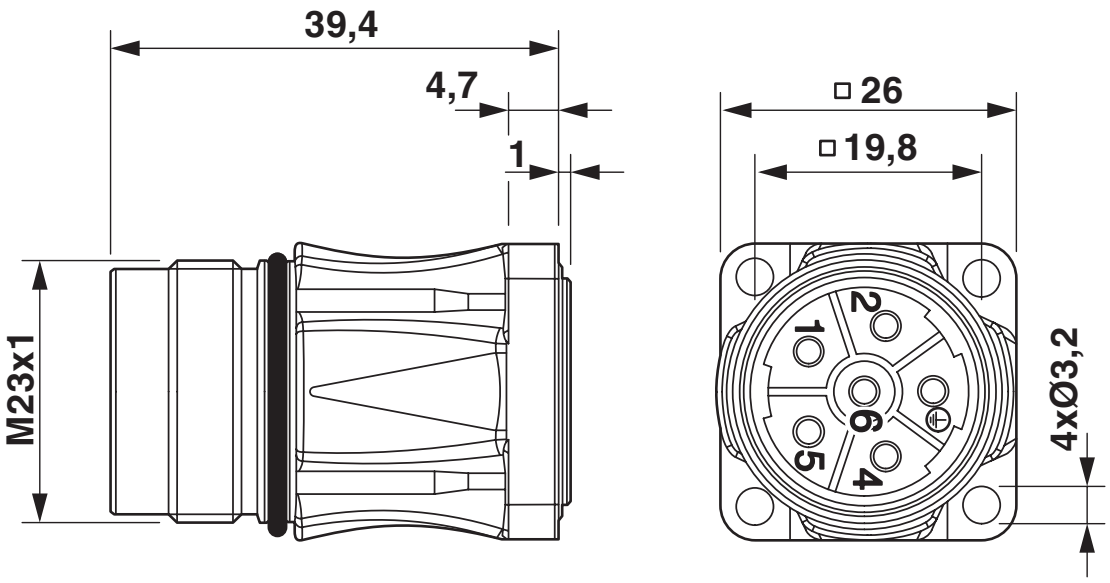
Drawings

Dimensional drawing



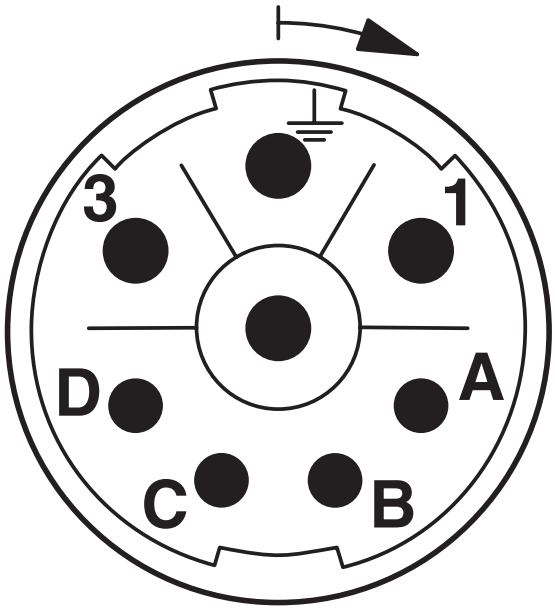
Installation dimensions

Dimensional drawing



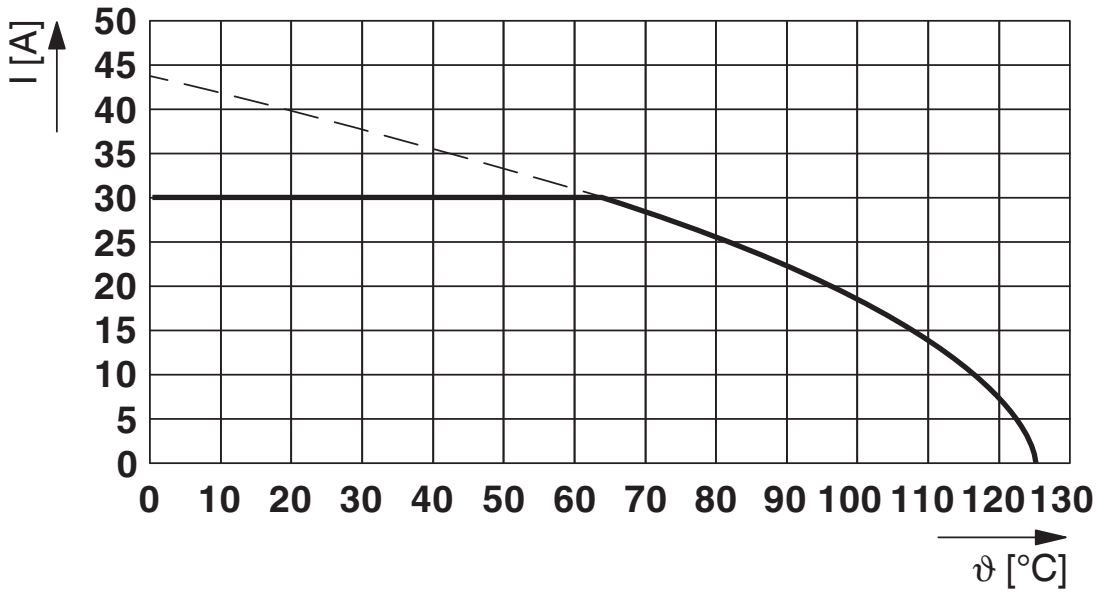
Dimensional drawing

Schematic diagram



Connector pin assignment

Diagram



I = current strength, T = ambient temperature

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1605589

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, 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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