

1605591

https://www.phoenixcontact.com/us/products/1605591

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Device connector front mounting, straight low type, Screw locking mechanism, M23, number of positions: 4+3+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: 8, connection method: Crimp connection, series: SF

Commercial data

Item number	1605591
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFL
Catalog page	Page 81 (PC-2011)
GTIN	4046356182225
Weight per piece (including packing)	38.85 g
Weight per piece (excluding packing)	33.925 g
Customs tariff number	85366990
Country of origin	DE



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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.
fety 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 an 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).
	 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. are applicable when combining several circuits in a cable and/oconnector
	Only use tools recommended by Phoenix Contact
	 The installation notes/Design In documents online on the download page at 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



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	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).
ounting	
Mounting type	Front mounting/square flange 4x Ø 3,2 mm
Assembly note	4x Ø 3,2 mm
oduct 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
mensions Housing	
Flange dimensions	28 mm x 28 mm
aterial 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
ectrical properties Contact	
0 - 1 - 1 - 1 - 1 - 1 - 1	
Contact diameter	2 mm
Contact diameter Max. current	2 mm 30 A
Max. current	30 A
Max. current Nominal voltage $\mathbf{U_N}$	30 A 630 V
Max. current Nominal voltage U _N Overvoltage category	30 A 630 V III
Max. current Nominal voltage U _N Overvoltage category Degree of pollution	30 A 630 V III 3
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	30 A 630 V III 3
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact	30 A 630 V III 3 6 kV
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter	30 A 630 V III 3 6 kV
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current	30 A 630 V III 3 6 kV
Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N	30 A 630 V III 3 6 kV



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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
External dable diameter	0 111111 0 111111

Environmental and real-life conditions

Ambient conditions

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

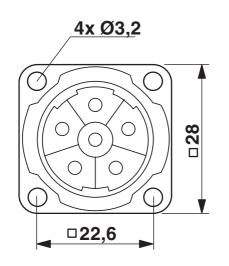


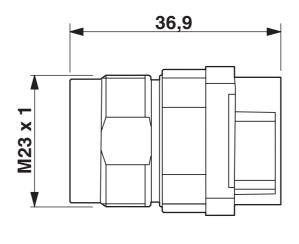
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Drawings

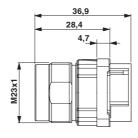
Dimensional drawing

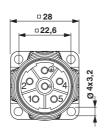




SF-...P1N8AWK00

Dimensional drawing





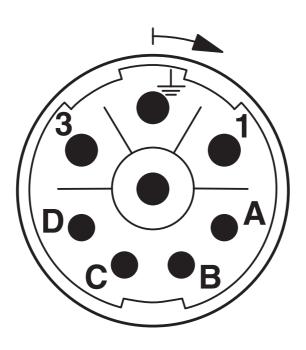
Installation dimensions SF-...P1N8AWK00



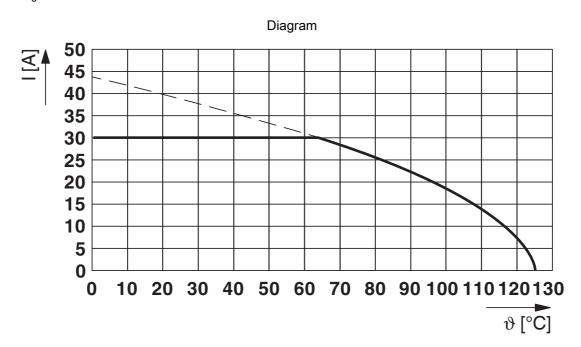
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Schematic diagram



Connector pin assignment



I = current strength, T = ambient temperature



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Classifications

UNSPSC 21.0

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		A.7.7

202.00		
	ECLASS-13.0	27440109
ΕT	ТМ	
	ETIM 9.0	EC003569
UN	NSPSC	

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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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