

1605622

https://www.phoenixcontact.com/us/products/1605622

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Device connector front mounting with knurled nut, straight, Screw locking mechanism, M23, number of positions: 4+3+PE, contact connection type: Socket, Axial O-ring, shielded: yes, flange dimensions: 26 mm x 26 mm, cable diameter range: 0 mm ... 0 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.

#### Commercial data

Item number	1605622
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFN
GTIN	4046356254014
Weight per piece (including packing)	80 g
Weight per piece (excluding packing)	66.43 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

#### Notes

oles	
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.
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.
	<ul> <li>WARNING: Commission properly functioning products only.</li> <li>The products must be regularly inspected for damage.</li> <li>Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li> </ul>
	<ul> <li>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.</li> </ul>
	<ul> <li>The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
	<ul> <li>When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li> </ul>
	<ul> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>
	<ul> <li>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).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	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
	<ul> <li>Only use tools recommended by Phoenix Contact</li> </ul>
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
	<ul> <li>Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>
	Observe the minimum bending radius of the cable. Lay the



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	cable without twisting it.
	<ul> <li>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).</li> </ul>
ounting	
Mounting type	Front mounting/square flange (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
Flange dimensions	26 mm x 26 mm
aterial specifications	
Material Housing	GD-Zn
	GD-Zn CuZn
Material Housing	
Material Housing  Material Rotating parts	CuZn
Material Housing  Material Rotating parts  Material Housing surface	CuZn Ni
Material Housing  Material Rotating parts  Material Housing surface  Material Insulating body	CuZn Ni PA 6.6
Material Housing Material Rotating parts Material Housing surface Material Insulating body Material Seal ectrical properties	CuZn Ni PA 6.6
Material Housing Material Rotating parts Material Housing surface Material Insulating body Material Seal ectrical properties	CuZn Ni PA 6.6
Material Housing  Material Rotating parts  Material Housing surface  Material Insulating body  Material Seal  ectrical properties  Contact: Contact group 1  Contact diameter	CuZn Ni PA 6.6 FPM (O-ring)
Material Housing  Material Rotating parts  Material Housing surface  Material Insulating body  Material Seal  ectrical properties  Contact: Contact group 1	CuZn Ni PA 6.6 FPM (O-ring)
Material Housing  Material Rotating parts  Material Housing surface  Material Insulating body  Material Seal  ectrical properties  Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub>	CuZn Ni PA 6.6 FPM (O-ring)
Material Housing  Material Rotating parts  Material Housing surface  Material Insulating body  Material Seal  ectrical properties  Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub>	CuZn Ni PA 6.6 FPM (O-ring)  2 mm 30 A 630 V
Material Housing  Material Rotating parts  Material Housing surface  Material Insulating body  Material Seal  ectrical properties  Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category	CuZn Ni PA 6.6 FPM (O-ring)  2 mm 30 A 630 V III
Material Housing  Material Rotating parts  Material Housing surface  Material Insulating body  Material Seal  ectrical properties  Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	CuZn Ni PA 6.6 FPM (O-ring)  2 mm 30 A 630 V III 3
Material Housing  Material Rotating parts  Material Housing surface  Material Insulating body  Material Seal  ectrical properties  Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage	CuZn Ni PA 6.6 FPM (O-ring)  2 mm 30 A 630 V III 3
Material Housing Material Rotating parts Material Housing surface Material Insulating body Material Seal  ectrical properties  Contact: Contact group 1  Contact diameter Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution Rated surge voltage  Contact: Contact group 2  Contact diameter	CuZn Ni PA 6.6 FPM (O-ring)  2 mm 30 A 630 V III 3 6 kV
Material Housing  Material Rotating parts  Material Housing surface  Material Insulating body  Material Seal  ectrical properties  Contact: Contact group 1  Contact diameter  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact: Contact group 2	CuZn Ni PA 6.6 FPM (O-ring)  2 mm 30 A 630 V III 3 6 kV



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Permissible humidity (storage/transport)

	Degree of pollution	3		
	Rated surge voltage	4 kV		
Со	nnection data			
(	Conductor connection			
	Connection method	Crimp connection		
	Contact connection type	Socket		
Connector				
	Туре	straight		
(	Connection 1			
	Head design	Socket		
Са	Cable/line			
	External cable diameter	0 mm 0 mm		
	vironmental and real-life conditions			
F	ambient conditions			
	Degree of protection	IP67		
	Ambient temperature (operation)	-40 °C 125 °C		
	Altitude	3000 m		

50 % ... 65 %

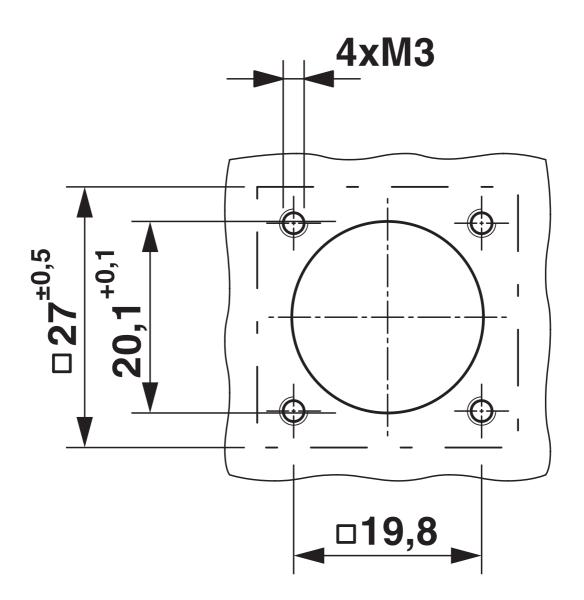


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### Drawings

#### Dimensional drawing



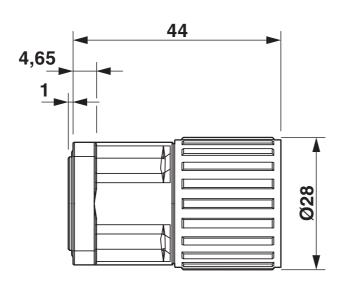
Installation dimensions

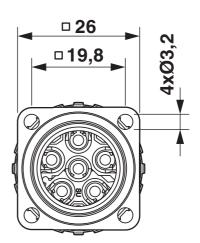


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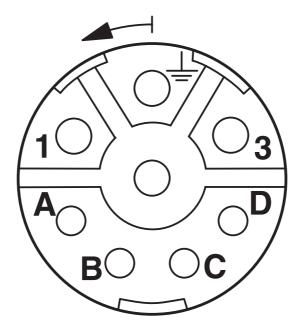
#### Dimensional drawing





Dimensional drawing

### Schematic diagram

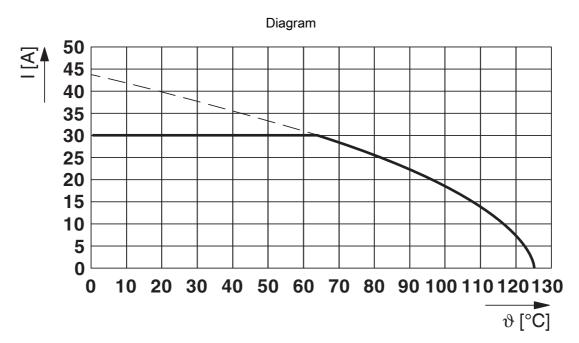


Connector pin assignment



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I = current strength, T = ambient temperature



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### Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1605622

. <b>91</b>	CUL Recognized 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>
keine					
		600 V	18 A	12	-

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



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### Classifications

#### **ECLASS**

	ECLASS-13.0	27440109		
	ECLASS-15.0	27440109		
ETIM				
	ETIM 9.0	EC003569		
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	cf3bb1ed-c700-4605-bc08-71b5a984e263

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com