

1605586

https://www.phoenixcontact.com/us/products/1605586

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Device connector front mounting, angled rotatable, 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, cable diameter range: 0 mm ... 0 mm, number of positions: 8, connection method: Crimp connection, series: SF

#### Commercial data

Item number	1605586
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFM
Catalog page	Page 81 (PC-2011)
GTIN	4046356182201
Weight per piece (including packing)	137.5 g
Weight per piece (excluding packing)	120.403 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.
	<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 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.</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>
	<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
	<ul> <li>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/oconnector</li> </ul>
	Only use tools recommended by Phoenix Contact
	<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>
	<ul> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>
	The connector warms up in normal operation. Depending on the connector warms up in normal operation.



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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
Housing  Flange dimensions	26 mm x 26 mm
aterial specifications	
Seal material	FPM
Housing material	Metal
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GEZn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM
ectrical properties  Contact	
Contact diameter	2 mm
Contact Contact diameter Max. current	30 A
Contact Contact diameter Max. current Nominal voltage U <sub>N</sub>	30 A 630 V
Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category	30 A 630 V III
Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	30 A 630 V III 3
Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category	30 A 630 V III
Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	30 A 630 V III 3
Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage	30 A 630 V III 3
Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact	30 A 630 V III 3 6 kV
Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter	30 A 630 V III 3 6 kV
Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current	30 A 630 V III 3 6 kV



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Rated surge voltage	4 kV
Connection data	
Conductor connection	
Connection method	Crimp connection
Contact connection type	Pin
Connector	
Туре	angled rotatable
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



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### Drawings

# Dimensional drawing M23x1 3A° 278° 278° 278° 278°

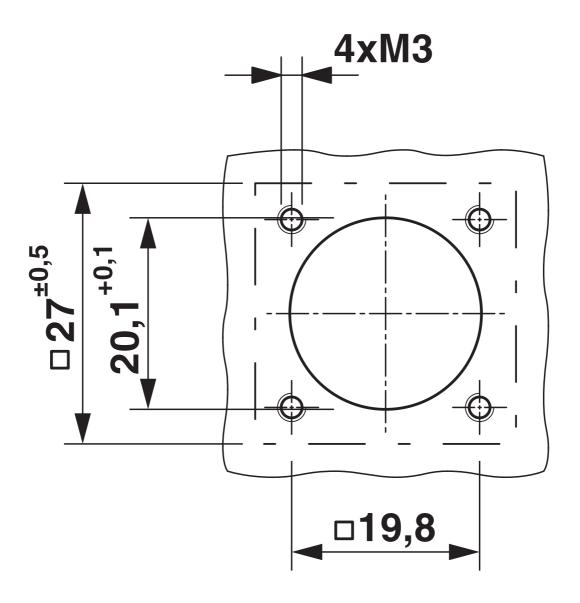
Dimensional drawing



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#### Dimensional drawing



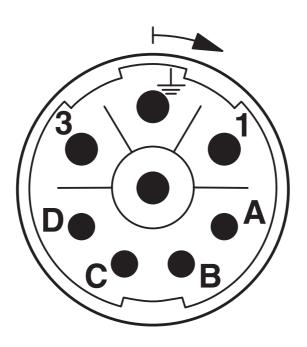
Installation dimensions



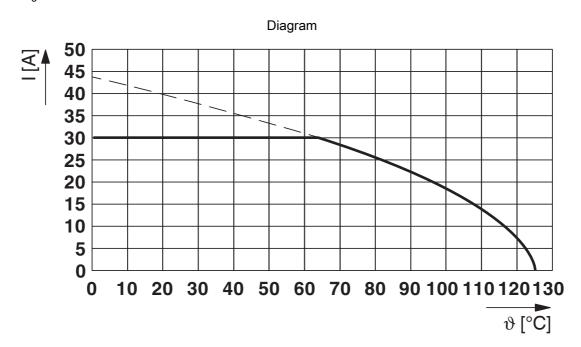
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#### Schematic diagram



#### Connector pin assignment



I = current strength, T = ambient temperature



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#### Classifications

	ECLASS-13.0	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, 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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