

1607046

https://www.phoenixcontact.com/us/products/1607046

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Device connector front mounting, angled fixed, Screw locking mechanism, 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.

### Commercial data

Item number	1607046
Packing unit	16 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB32
Product key	ABRBFM
GTIN	4046356253734
Weight per piece (including packing)	137.56 g
Weight per piece (excluding packing)	121.023 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.         The products must be regularly inspected for damage.         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/o connector</li> </ul>
	<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>
	<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 t 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)
roduct 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
imensions Housing	
Flange dimensions	26 mm x 26 mm
aterial specifications	
Material Housing	GD-Zn
Material Rotating parts	CuZn
Material Insulating body	PA 6.6
Material Seal	FPM (O-ring)
ectrical properties  Contact: Contact group 1	
Contact diameter	2 mm
Nominal current I <sub>N</sub>	30 A
Nominal voltage U <sub>N</sub>	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 <sub>N</sub>	9 A
	250 V
Nominal voltage U <sub>N</sub>	
Nominal voltage U <sub>N</sub> Overvoltage category	III
···	3

### Connection data



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### Conductor connection

Connection method	Crimp connection
Contact connection type	Pin

### Connector

### Environmental and real-life conditions

### Ambient conditions

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

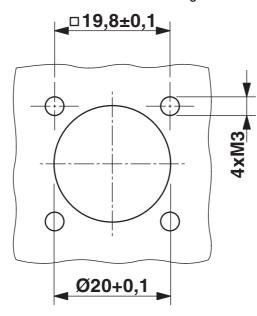


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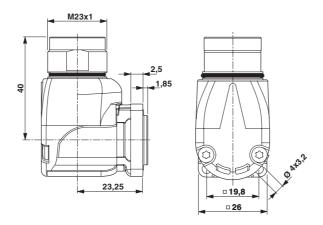
## **Drawings**

Dimensional drawing



Installation dimensions

Dimensional drawing



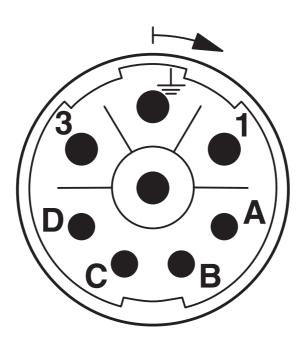
Dimensional drawing



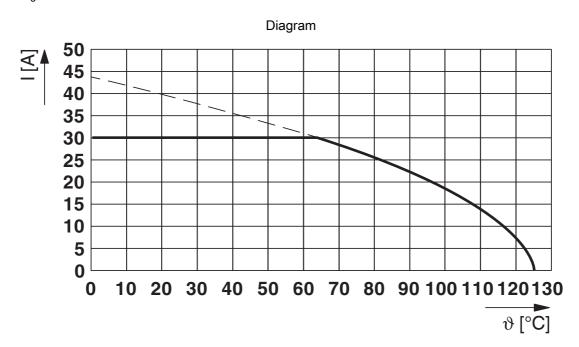
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### Schematic diagram



### Connector pin assignment



I = current strength, T = ambient temperature



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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

20 1.01.0	
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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