

1617909

https://www.phoenixcontact.com/gb/products/1617909

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device connector front mounting, straight, SPEEDCON, M23, number of positions: 5+PE, contact connection type: Pin, Axial O-ring, shielded: yes, flange dimensions: 26 mm x 26 mm, number of positions: 6, connection method: Crimp connection, series: SF

### Commercial data

Item number	1617909
Packing unit	20 pc
Minimum order quantity	20 pc
Note	Made to order (non-returnable)
Sales key	ABRBFL
Product key	ABRBFL
GTIN	4046356581035
Weight per piece (including packing)	37.915 g
Weight per piece (excluding packing)	33.726 g
Customs tariff number	85366990
Country of origin	DE



1617909

https://www.phoenixcontact.com/gb/products/1617909

### Technical data

### Notes

Order information:	Order crimp contacts 6 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>
	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>
	<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



1617909

https://www.phoenixcontact.com/gb/products/1617909

	ambient conditions, the surface of the connector can continue 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 4x Ø 3,2 mm
Assembly note	4x Ø 3,2 mm
roduct properties	
Product type	Circular connectors (device side)
Series	SF
Application	Power
Number of positions	6
Connection profile	5+PE
Shielded	yes
Coding	N
Thread type	M23
Housing Flange dimensions	26 mm x 26 mm
aterial specifications	
Flammability rating according to UL 94	V0
Seal material	FPM
Housing material	GD-Zn
ectrical properties  Contact  Contact diameter	2 mm
Max. current	30 A
Nominal voltage U <sub>N</sub>	630 V
Nominal voltage U <sub>N</sub> Overvoltage category	630 V III
Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	630 V III 3
Nominal voltage U <sub>N</sub> Overvoltage category	630 V
Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage	630 V III 3
Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution	630 V III 3
Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact	630 V III 3 6 kV
Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter	630 V  III  3  6 kV
Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current	630 V III 3 6 kV  2 mm 9 A
Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  Contact  Contact diameter  Max. current  Nominal voltage U <sub>N</sub>	630 V III 3 6 kV  2 mm 9 A 250 V

### Connection data



1617909

https://www.phoenixcontact.com/gb/products/1617909

#### Conductor connection

Connection method	Crimp connection
Contact connection type	Pin

### Connector

Type	straight
.,,,,,,	ou algili

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP67	
Ambient temperature (operation)	-40 °C 125 °C	
Ambient temperature (storage/transport)	15 °C 25 °C	
Altitude	3000 m	
Permissible humidity (storage/transport)	50 % 65 %	

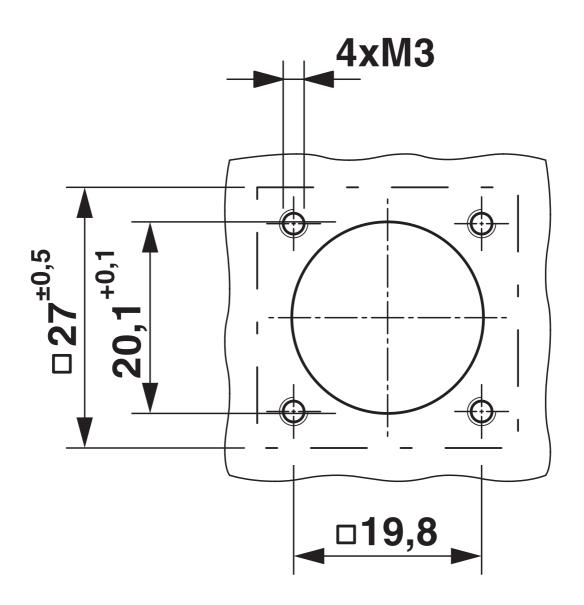


1617909

https://www.phoenixcontact.com/gb/products/1617909

### Drawings

### Dimensional drawing



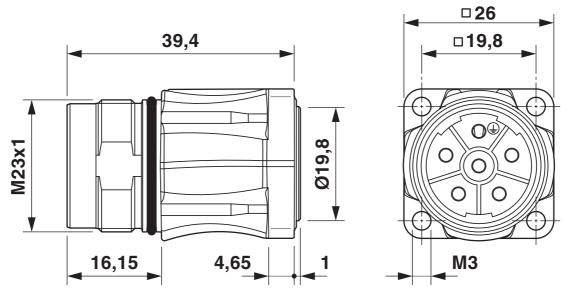
Installation dimensions



1617909

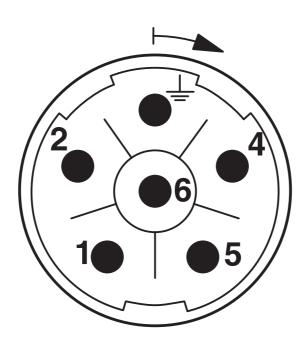
https://www.phoenixcontact.com/gb/products/1617909

### Dimensional drawing



Dimensional drawing

Schematic diagram

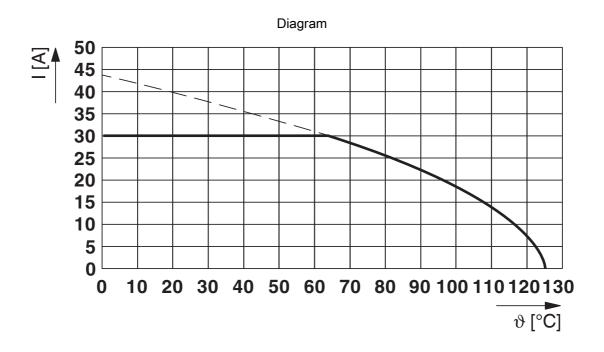


Connector pin assignment



1617909

https://www.phoenixcontact.com/gb/products/1617909





1617909

https://www.phoenixcontact.com/gb/products/1617909

### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1617909

<b>.21</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>
		600 V	18 A	12	-

<b>7/</b>	UL Recognized Approval ID: E153698-20	0041116			
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		600 V	27 A	12	-



1617909

https://www.phoenixcontact.com/gb/products/1617909

### Classifications

ECLASS				
	ECLASS-13.0	27440109		
ΕΊ	ГІМ			
	ETIM 9.0	EC002635		
U	NSPSC			
	UNSPSC 21.0	39121400		



1617909

https://www.phoenixcontact.com/gb/products/1617909

### 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%			

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk