

1605589

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Device connector front mounting, straight, 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, Compatible with mating connectors with SPEEDCON or M23 standard knurled nuts, number of positions: 8, connection method: Crimp connection, series: SF

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly

Commercial data

Item number	1605589
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFL
Catalog page	Page 156 (C-2-2019)
GTIN	4046356182218
Weight per piece (including packing)	48.5 g
Weight per piece (excluding packing)	33.912 g
Customs tariff number	85366990
Country of origin	DE



1605589

https://www.phoenixcontact.com/us/products/1605589

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



1605589

https://www.phoenixcontact.com/us/products/1605589

	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
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
Housing Flange dimensions	26 mm x 26 mm
aterial specifications	
Flammability rating according to UL 94	V0
Seal material	FPM
Housing material	GD-Zn
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GDZn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM
ectrical properties Contact	
Contact diameter	2 mm
Max. current	30 A
Max. current Nominal voltage $\mathbf{U}_{\mathbf{N}}$	
	30 A
Nominal voltage U _N	30 A 630 V
Nominal voltage U _N Overvoltage category	30 A 630 V III
Nominal voltage U _N Overvoltage category Degree of pollution	30 A 630 V III 3
Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	30 A 630 V III 3
Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact	30 A 630 V III 3 6 kV
Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter	30 A 630 V III 3 6 kV



1605589

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Ambient temperature (operation)

Altitude

Degree of pollution	3
Rated surge voltage	4 kV
Connection data	
Conductor connection	
Connection method	Crimp connection
Contact connection type	Pin
Connector	
Туре	straight
Connection 1	
Head design	Pin
Environmental and real-life conditions Ambient conditions	
Degree of protection	IP67

-40 °C ... 125 °C

3000 m

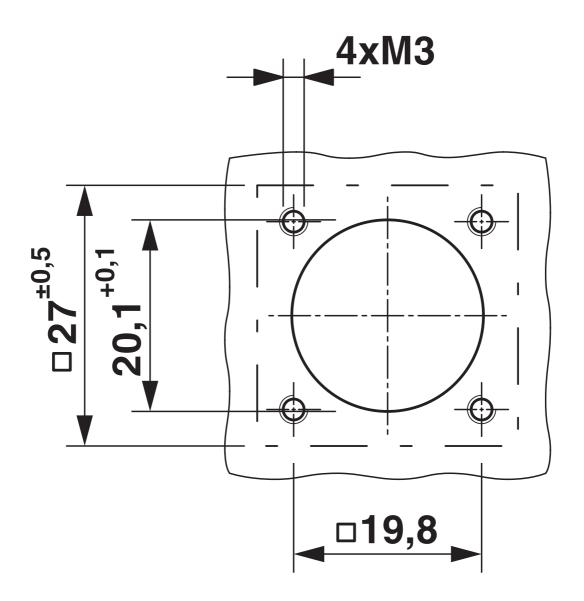


1605589

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Drawings

Dimensional drawing



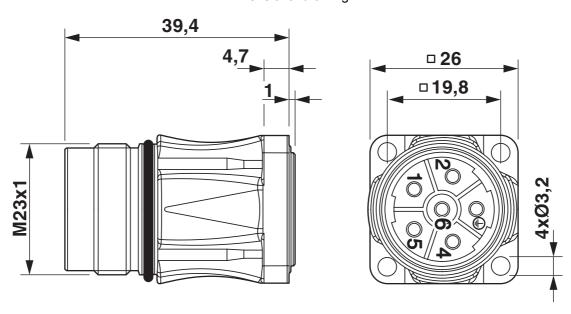
Installation dimensions



1605589

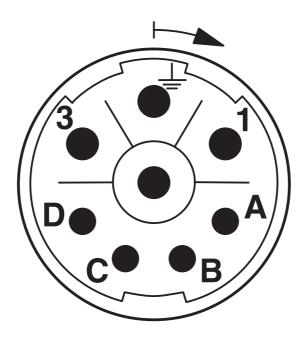
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Dimensional drawing



Dimensional drawing

Schematic diagram

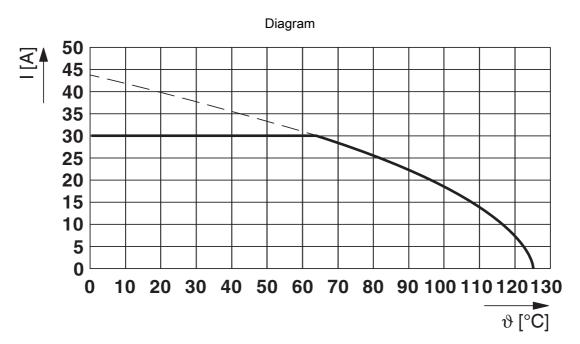


Connector pin assignment



1605589

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I = current strength, T = ambient temperature



1605589

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1605589

cUL Recognized Approval ID: E153698-20041116					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	18 A	12	-

UL Recognized Approval ID: E153698-20041116					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	27 A	12	-



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Classifications

	ECLASS-13.0	27440109		
E ⁻	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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