

1607042

https://www.phoenixcontact.com/us/products/1607042

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Rear panel feed-through, straight long, Screw locking mechanism, M23, number of positions: 5+PE, contact connection type: Pin, Axial O-ring, 4xM3, shielded: yes, degree of protection: IP67, cable diameter range: 7.5 mm ... 9 mm, number of positions: 6, connection method: Crimp connection, series: SF, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242223

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly
- · Flexible use: reliably connect various cable diameters

Commercial data

Item number	1607042
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB32
Product key	ABRBFJ
Catalog page	Page 158 (C-2-2019)
GTIN	4046356253352
Weight per piece (including packing)	131.9 g
Weight per piece (excluding packing)	131.9 g
Customs tariff number	85366990
Country of origin	DE



1607042

https://www.phoenixcontact.com/us/products/1607042

Technical data

Notes

Order information:	Order crimp contacts 6 x Ø 2 mm separately
afety 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 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.
	 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 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	 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 ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting



1607042

https://www.phoenixcontact.com/us/products/1607042

	warnings (e.g. DIN EN ISO 13732-1:2008-12).
lounting	
lounting	4142
Mounting	4x M3
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
Data management status	
Article revision	09
laterial specifications	
Seal material	FPM
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn)
Insulator material	PA 6.6
lectrical properties	
lectrical properties Contact	<u>.</u>
Contact diameter	2 mm
Contact Contact diameter Max. current	30 A
Contact Contact diameter Max. current Nominal voltage U _N	30 A 630 V
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	30 A 630 V III
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	30 A 630 V III 3
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	30 A 630 V III
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	30 A 630 V III 3
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	30 A 630 V III 3
Contact Contact diameter Max. current Nominal voltage U _N 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 _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter	30 A 630 V III 3 6 kV
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Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	30 A 630 V III 3 6 kV 2 mm 30 A 630 V III
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Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	30 A 630 V III 3 6 kV 2 mm 30 A 630 V III 31 31 31
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	30 A 630 V III 3 6 kV 2 mm 30 A 630 V III 3



1607042

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Connector

	Туре	straight long		
Ca	Cable/line			
	External cable diameter	7.5 mm 9 mm		

Environmental and real-life conditions

Ambient conditions

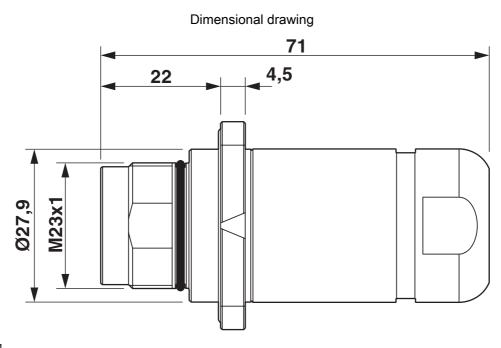
Degree of protection	IP67
Ambient temperature (operation)	-40 °C 125 °C
Ambient temperature (storage/transport)	15 °C 25 °C
Altitude	3000 m
Permissible humidity (storage/transport)	50 % 65 %



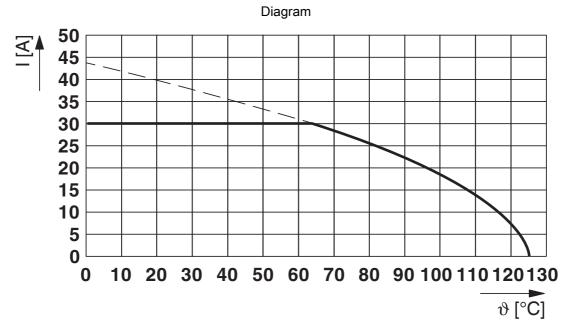
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Drawings



Dimensional drawing



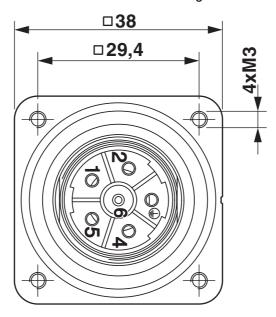
I = current strength, T = ambient temperature



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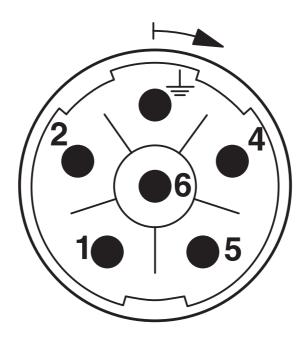


Dimensional drawing



Flange dimensions

Schematic diagram

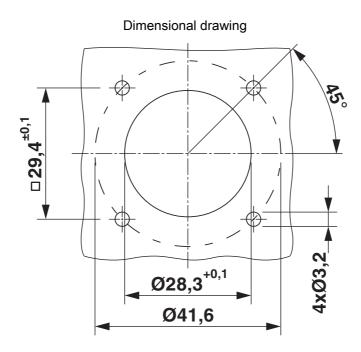


Connector pin assignment



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Installation dimensions



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1607042

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 - 12	-

71	UL Recognized Approval ID: E153698-20	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 - 12	-	

cULus Recognized



1607042

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Classifications

ECLASS

	ECLASS-11.0	27440102		
	ECLASS-12.0	27440116		
	ECLASS-13.0	27440116		
ET	ETIM			
□ I	IIVI			
	ETIM 9.0	EC002635		
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	7f4ec09d-d3b6-4909-b8bc-f7b923f6b2bb			



1607042

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Accessories

SF-7RP2000 - Crimp contact

1605646

https://www.phoenixcontact.com/us/products/1605646



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: $0.14~\text{mm}^2~\dots~0.25~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1241951

SF-7PP2000 - Crimp contact

1605634

https://www.phoenixcontact.com/us/products/1605634



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: $0.25~\text{mm}^2$... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1241951



1607042

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SF-20KP004 - Crimp contact

1607376

https://www.phoenixcontact.com/us/products/1607376



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: $0.75 \text{ mm}^2 \dots 1$. 5 mm^2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241953

SF-7QP2000 - Crimp contact

1605639

https://www.phoenixcontact.com/us/products/1605639



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: 1 mm^2 ... 2.5 mm^2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241953



1607042

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SF-7MP2000 - Crimp contact

1605626

https://www.phoenixcontact.com/us/products/1605626



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: $4~\text{mm}^2$... $4~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241948

SF-Z0019 - Protective cap

1607449

https://www.phoenixcontact.com/us/products/1607449



Plastic protection cap, with eye, IP40 for connectors with M23 external thread, RF, SF series



1607042

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RC-Z2469 - Protective cap

1611797

https://www.phoenixcontact.com/us/products/1611797



Plastic protection cap, antistatic, for RF, SF, CA, RC series connectors, with M23 external thread

SC-Z2319 - Metal protective cap

1605456

https://www.phoenixcontact.com/us/products/1605456



Metal protection cap for power connectors with M23 external thread



1607042

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SC-Z2320 - Metal protective cap

1605457

https://www.phoenixcontact.com/us/products/1605457

Metal protection cap with steel wire for power connectors with M23 external thread



SF-Z0064 - Color coding

1620585

https://www.phoenixcontact.com/us/products/1620585

Color coding, color: green





1607042

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SF-Z0065 - Color coding

1620586

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Color coding, color: orange



SF-Z0066 - Color coding

1620587

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Color coding, color: black





1607042

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PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

https://www.phoenixcontact.com/us/products/1055753



Plastic protective cap, M23, degree of protection: IP20, series: M23 PRO

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