

1607429

https://www.phoenixcontact.com/us/products/1607429

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 with knurled nut, angled fixed, Screw locking mechanism, M23, number of positions: 4+3+PE, contact connection type: Socket, Axial O-ring, 4x Ø 3.2, shielded: yes, flange dimensions: 26 mm x 26 mm, degree of protection: IP67, number of positions: 8, connection method: Crimp connection, series: SF, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242295

Commercial data

Item number	1607429
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBFO
Catalog page	Page 157 (C-2-2019)
GTIN	4046356271417
Weight per piece (including packing)	181 g
Weight per piece (excluding packing)	170.35 g
Customs tariff number	85366990
Country of origin	DE



1607429

https://www.phoenixcontact.com/us/products/1607429

Technical data

Notes

Order information:	Order crimp contacts 4 x Ø 1 mm, 4 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



1607429

https://www.phoenixcontact.com/us/products/1607429

	warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
lounting	
Mounting type	Front mounting
Mounting	4x Ø 3.2
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
Data management status	
Article revision	09
imensions Housing Flange dimensions	26 mm x 26 mm
Housing Flange dimensions	26 mm x 26 mm
Housing	
Housing Flange dimensions laterial specifications	FPM
Housing Flange dimensions laterial specifications Seal material	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD
Housing Flange dimensions laterial specifications Seal material Housing material	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn)
Housing Flange dimensions laterial specifications Seal material Housing material Insulator material	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn) PA 6.6
Housing Flange dimensions Laterial specifications Seal material Housing material Insulator material Gasket and O-ring material	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn) PA 6.6
Housing Flange dimensions laterial specifications Seal material Housing material Insulator material Gasket and O-ring material lectrical properties	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn) PA 6.6
Housing Flange dimensions laterial specifications Seal material Housing material Insulator material Gasket and O-ring material lectrical properties Contact	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn) PA 6.6 FPM
Housing Flange dimensions laterial specifications Seal material Housing material Insulator material Gasket and O-ring material lectrical properties Contact Contact diameter	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn) PA 6.6 FPM
Flange dimensions laterial specifications Seal material Housing material Insulator material Gasket and O-ring material lectrical properties Contact Contact diameter Max. current	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn) PA 6.6 FPM 2 mm 30 A
Flange dimensions laterial specifications Seal material Housing material Insulator material Gasket and O-ring material lectrical properties Contact Contact diameter Max. current Nominal voltage U _N	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn) PA 6.6 FPM 2 mm 30 A 630 V
Flange dimensions Platerial specifications Seal material Housing material Insulator material Gasket and O-ring material Plectrical properties Contact Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GDZn) PA 6.6 FPM 2 mm 30 A 630 V III
Flange dimensions laterial specifications Seal material Housing material Insulator material Gasket and O-ring material lectrical properties Contact Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn) PA 6.6 FPM 2 mm 30 A 630 V III 3
Housing Flange dimensions laterial specifications Seal material Housing material Insulator material Gasket and O-ring material lectrical properties Contact Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	FPM Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn) PA 6.6 FPM 2 mm 30 A 630 V III 3



1607429

https://www.phoenixcontact.com/us/products/1607429

Nominal voltage U _N	250 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	4 kV

Connection data

Conductor connection

Connection method	Crimp connection
Contact connection type	Socket

Connector

Туре	angled fixed
Connection 1	
Head design	Socket

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 %



1607429

https://www.phoenixcontact.com/us/products/1607429

Drawings

Dimensional drawing 25.02 25,4 39,4

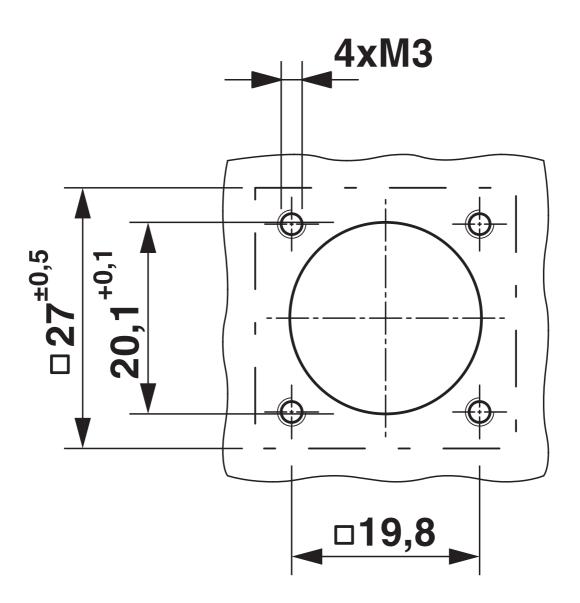
Dimensional drawing



1607429

https://www.phoenixcontact.com/us/products/1607429

Dimensional drawing

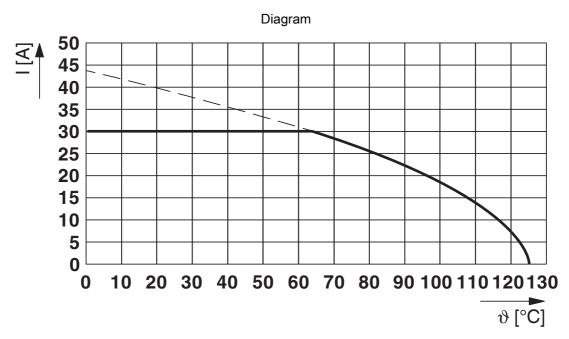


Installation dimensions



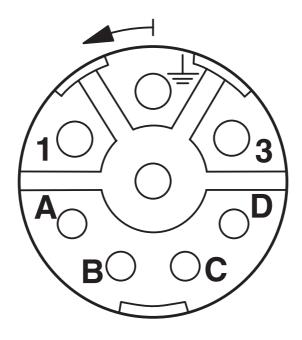
1607429

https://www.phoenixcontact.com/us/products/1607429



I = current strength, T = ambient temperature

Schematic diagram



Connector pin assignment



1607429

https://www.phoenixcontact.com/us/products/1607429

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1607429

.71	cUL Recognized Approval ID: E153698-20041116				
	Nomir	nal 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: E153698-20041116					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		600 V	27 A	12 - 12	-	

cULus Recognized



1607429

https://www.phoenixcontact.com/us/products/1607429

Classifications

ECLASS

)L/ (00				
	ECLASS-11.0	27440102			
	ECLASS-12.0	27440116			
	ECLASS-13.0	27440116			
ΕΊ	ETIM				
	ETIM 9.0	EC002635			
U	NSPSC				
	UNSPSC 21.0	39121400			



1607429

https://www.phoenixcontact.com/us/products/1607429

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	7c780ea2-e323-488f-96c6-c85ab6c259f0	



1607429

https://www.phoenixcontact.com/us/products/1607429

Accessories

SF-7PS2000 - Crimp contact

1605636

https://www.phoenixcontact.com/us/products/1605636



Crimp contact, Socket, 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.: 1241952

SF-7NS2000 - Crimp contact

1605631

https://www.phoenixcontact.com/us/products/1605631



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: $0.75~\text{mm}^2$... $1.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1237431



1607429

https://www.phoenixcontact.com/us/products/1607429

SF-7QS2000 - Crimp contact

1605643

https://www.phoenixcontact.com/us/products/1605643



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: $1~\text{mm}^2$... $2.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237431

SF-7MS2000 - Crimp contact

1605628

https://www.phoenixcontact.com/us/products/1605628



Crimp contact, Socket, 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.: 1241949



1607429

https://www.phoenixcontact.com/us/products/1607429

SF-6CS2000 - Crimp contact

1605562

https://www.phoenixcontact.com/us/products/1605562



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: $0.06~\text{mm}^2$... $0.25~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241922

SF-10KS004 - Crimp contact

1607356

https://www.phoenixcontact.com/us/products/1607356



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: $0.14~\text{mm}^2$... $0.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1241922



1607429

https://www.phoenixcontact.com/us/products/1607429

SF-6AS2000 - Crimp contact

1605557

https://www.phoenixcontact.com/us/products/1605557



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: $0.25~\text{mm}^2~\dots~1~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241922

SC-Z2322 - Metal protective cap

1605459

https://www.phoenixcontact.com/us/products/1605459

Metal dust protection cap with steel wire for power plugs with M23 knurled nuts





1607429

https://www.phoenixcontact.com/us/products/1607429

SF-Z0028 - Torque screwdriver

1607456

https://www.phoenixcontact.com/us/products/1607456



Torque screwdriver, series: RC, UC, SH, SF

SF-Z0027 - Hook wrench

1607455

https://www.phoenixcontact.com/us/products/1607455



Hook wrench, series: RC, UC, RF, SF



1607429

https://www.phoenixcontact.com/us/products/1607429

SF-6FS2000 - Crimp contact

1605566

https://www.phoenixcontact.com/us/products/1605566



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: $0.5~\text{mm}^2~\dots~1~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1241923

PROT-M23-PW-IT-IP20 - Plastic protective cap

1577207

https://www.phoenixcontact.com/us/products/1577207



Plastic protective cap, M23, degree of protection: IP20, series: SH, SF

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com