

1241896

https://www.phoenixcontact.com/in/products/1241896

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Coupler connector, straight short, for standard and SPEEDCON interlock, M23, number of positions: 5+PE, contact connection type: Pin, shielded: yes, degree of protection: IP67, cable diameter range: 11 mm ... 14 mm, Compatible with mating connectors with SPEEDCON or M23 standard knurled nuts, number of positions: 6, connection method: Crimp connection, series: SF, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

### 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	1241896
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	****
Product key	ABRBFG
GTIN	4063151395971
Weight per piece (including packing)	106 g
Weight per piece (excluding packing)	54.33 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

### Notes

Order information:	Order crimp contacts 6 x Ø 2 mm separately
Safety 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 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.</li> </ul>
	The products are suitable for applications in plant, controller, and electrical device engineering.
	<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/or connector</li> </ul>
	Only use tools recommended by Phoenix Contact
	<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>
	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



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	warnings (e.g. DIN EN ISO 13732-1:2008-12).
luct properties	
Product type	Circular connector (cable-side)
Series	SF
Application	Power
Number of positions	6
Connection profile	5+PE
Shielded	yes
Coding	N
Thread type	M23
erial specifications	
Seal material	FPM
Housing material	Metal
onductor connection	Crimp consection
Connection method	Crimp connection
Contact diameter	2 mm
Max. current	30 A
Nominal voltage U <sub>N</sub>	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
ontact	
ontact Contact diameter	2 mm
	2 mm 30 A
Contact diameter	
Contact diameter  Max. current	30 A
Contact diameter  Max. current  Nominal voltage U <sub>N</sub>	30 A 630 V
Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category	30 A 630 V III
Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage	30 A 630 V III 3
Contact diameter  Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage	30 A 630 V III 3
Max. current  Nominal voltage U <sub>N</sub> Overvoltage category  Degree of pollution  Rated surge voltage  nnector	30 A 630 V III 3 6 kV

### Environmental and real-life conditions



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#### 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 %

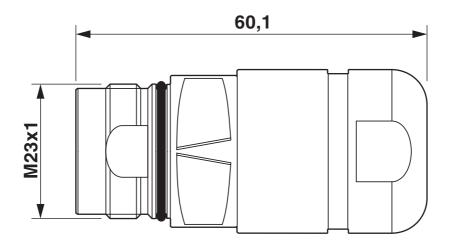


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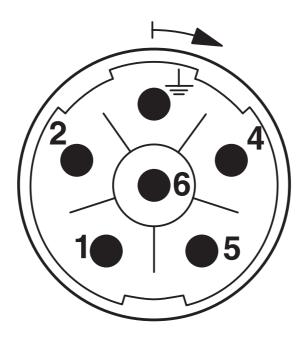
### Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram

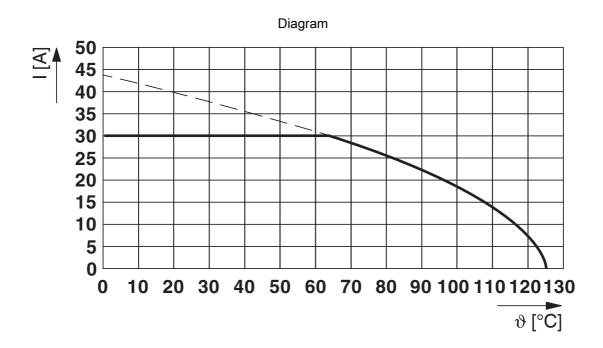


Connector pin assignment



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1241896

. <b>51</b> 1	<b>cUL Recognized</b> Approval ID: E153698-20041116				
	Nomi	nal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	600 \	/	18 A	12	-

<i>7</i> 1	UL Recognized Approval ID: E153698-20	0041116			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		600 V	27 A	12	-

_1 11	 Recognize	



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### Classifications

### **ECLASS**

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### **ETIM**

ETIM 9.0	EC002635	



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### Environmental product compliance

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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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#### Accessories

SF-20KP0,06-1,00 - Crimp contact

1241951

https://www.phoenixcontact.com/in/products/1241951



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range:  $0.06~\text{mm}^2~\dots~1~\text{mm}^2$ , Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1~%)

### SF-Z0068X - Square mounting flange

1244326

https://www.phoenixcontact.com/in/products/1244326



Square mounting flange, 4xM3, flange dimensions: 38 mm x 38 mm, series: SF, SH, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0. 1 %)



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### SF-20KP0,25-2,50 - Crimp contact

1241953

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Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range:  $0.25~\text{mm}^2$  ...  $2.5~\text{mm}^2$ , Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1~%)

#### SF-Z0019 - Protective cap

1607449

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



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



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### PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

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Plastic protective cap, M23, series: M23 PRO

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