

1628820

https://www.phoenixcontact.com/us/products/1628820

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M23, Cable connector, series: M23 PRO, straight short, shielded: yes, Screw locking mechanism, No. of pos.: 4+3+PE, contact connection type: Socket, Crimp connection, cable diameter range: 9.5 mm ... 14.5 mm, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

### Your advantages

- · Solutions with cross-manufacturer compatibility for standard and fast locking systems
- · Reliable under the harshest conditions: cable connectors with vibration brake
- · Modern, consistent design for highly convenient operation
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40

#### Commercial data

Item number	1628820
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB36
Product key	ABRBBA
Catalog page	Page 146 (C-2-2019)
GTIN	4055626617565
Weight per piece (including packing)	139 g
Weight per piece (excluding packing)	120.26 g
Customs tariff number	85366990
Country of origin	DE



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### Technical data

### Notes

General	Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
General	Please observe the derating curve.
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>
	Assembled products may not be manipulated or improperly opened.
	<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
	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>
	<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 ambient conditions, the surface of the connector can continue to



1628820

https://www.phoenixcontact.com/us/products/1628820

	warm up. In this case, the user is responsible for posting
	warnings (e.g. DIN EN ISO 13732-1:2008-12).
oduct properties	
Product type	Circular connector (cable-side)
nnector	
Connection 1	
Head design	Socket
nsulating body	
Note	Order information: Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mr separately
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
Application	Power
Number of positions	8
Connection profile	4+3+PE
Contact diameter Power contacts	2 mm
Litz wire cross-section Power contacts min.	0.25 mm²
Litz wire cross-section Power contacts max.	4 mm²
Rated current Power contacts	30 A
Note	for max. connection cross section
Rated voltage	630 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.06 mm²
Litz wire cross-section Signal contacts max.	1 mm²
Nominal current per signal contact	9 A
Note	for max. connection cross section
Rated voltage Signal contact	250 V
Rated surge voltage	4 kV
Overvoltage category	III
Degree of pollution	3
Installation height	3000 m
Housing	
	OD 7-
Housing material	GD-Zn



1628820

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Pg screw connection	none
Degree of protection (plugged in)	IP66 / IP68 (2m / 24h) / IP69K
Thread type	M23
Seal	
External cable diameter	9.5 mm 14.5 mm
Seal material	FKM

#### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-40 °C 105 °C (see to derating)
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

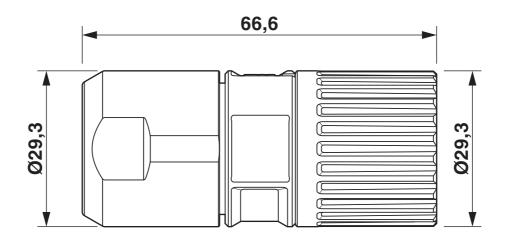


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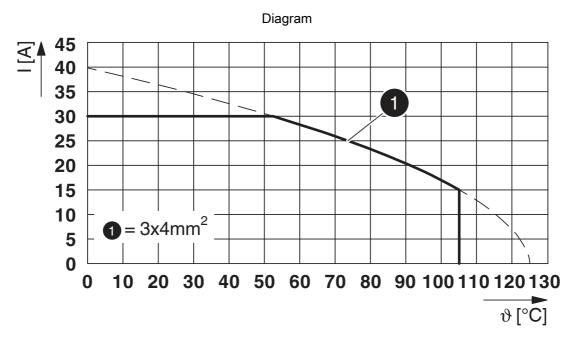


### Drawings

### Dimensional drawing



Technical drawings can be found under Downloads

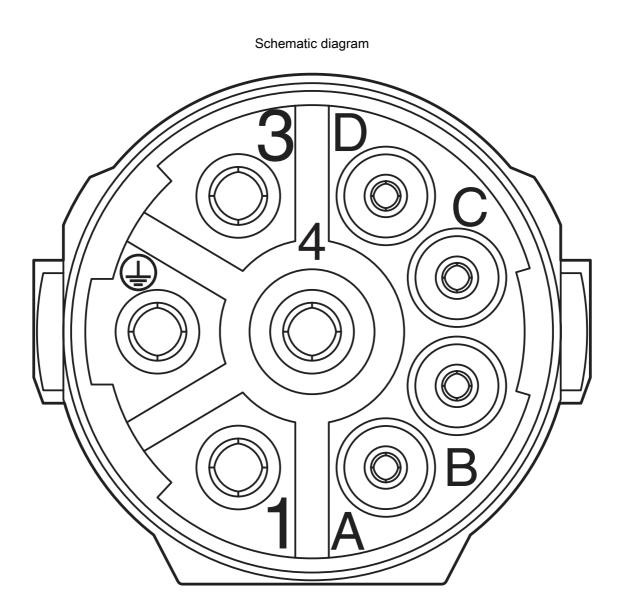


I = current strength, ϑ = ambient temperature, 3 x 30 A + 2 x 1 A constant



1628820

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1628820

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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628820



**UL Listed** 

Approval ID: E468743-20190627



cUL Listed

Approval ID: E468743-20190627

**cULus Listed** 



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## Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116
ETIM	
ETIM 8.0	EC002635
UNSPSC	

39121400



1628820

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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



1628820

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### Accessories

SF-Z0028 - Torque screwdriver

1607456

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Torque screwdriver, series: RC

### SF-Z0027 - Hook wrench

1607455

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Hook wrench, series: RC



1628820

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### SF-20KS021 - Crimp contact

1621576

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Crimp contact, Socket, turned, 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.: 1244461

#### SF-20KS022 - Crimp contact

1621577

https://www.phoenixcontact.com/us/products/1621577



Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range:  $1.5~\text{mm}^2$  ...  $2.5~\text{mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244461



1628820

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#### SF-20KS023 - Crimp contact

1621578

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Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range:  $2.5~\text{mm}^2$  ...  $4~\text{mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244462

#### ST-10KS010 - Crimp contact

1618239

https://www.phoenixcontact.com/us/products/1618239



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.: 1243216



1628820

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### ST-10KS035 - Crimp contact

1618464

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Crimp contact, Socket, turned, contact diameter: 1 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.: 1243216

### PROT-M23PRO-PW-IT-IP20 - Plastic protective cap

1055746

https://www.phoenixcontact.com/us/products/1055746



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



1628820

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### PROT-M23PRO-PW-IT-IP67 - Plastic protective cap

1055747

https://www.phoenixcontact.com/us/products/1055747



Plastic protective cap, M23, degree of protection: IP67, series: M23 PRO Leistung

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