

1628840

https://www.phoenixcontact.com/pc/products/1628840

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M23, Coupler connector, series: M23 PRO, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 4+3+PE, contact connection type: Socket, Crimp connection, cable diameter range: 5.5 mm ... 8 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
- · Modern, consistent design for highly convenient operation
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40

### Commercial data

Item number	1628840
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRBBG
GTIN	4055626763248
Weight per piece (including packing)	133.8 g
Weight per piece (excluding packing)	133.8 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



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	warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
duct properties	
Product type	Circular connector (cable-side)
nnector	
sulating body	
Note	Order information: Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 n 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
pusing	
Housing material	GD-Zn
Type of locking	for standard and ONECLICK fast locking system
Pg screw connection	none
Degree of protection (plugged in)	IP66 / IP68 (2 m / 24 h)



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Thread type	M23
Seal	
External cable diameter	5.5 mm 8 mm
Seal material	FKM

### Environmental and real-life conditions

### Ambient conditions

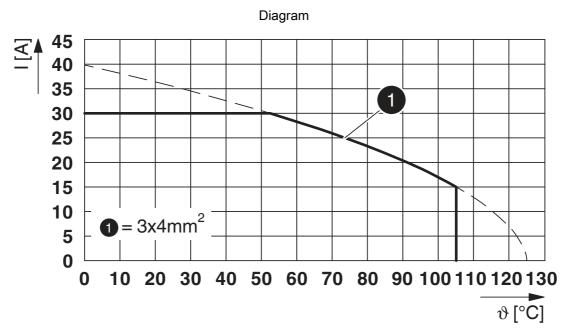
Ambient temperature (operation)	-40 °C 105 °C (see to derating)
Altitude	2000 m
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)



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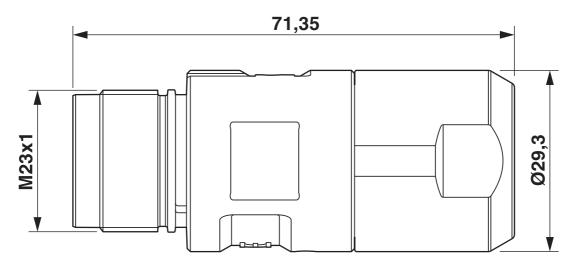


### **Drawings**



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

### Dimensional drawing

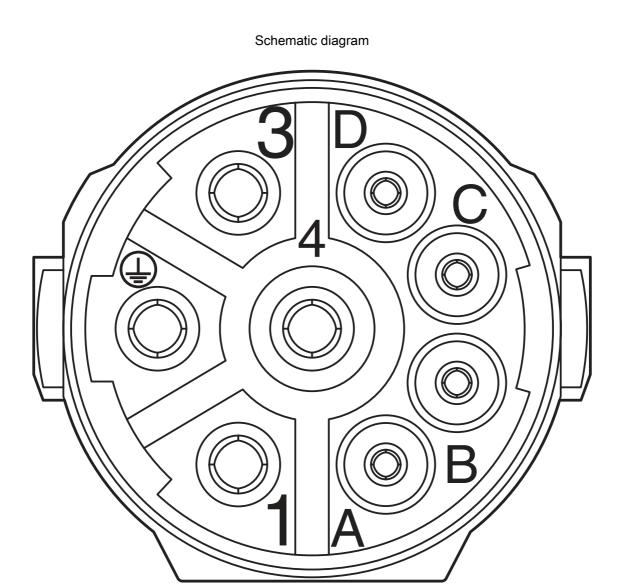


Dimensional drawing



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### **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1628840



**UL Listed** 

Approval ID: E468743-20190627



cUL Listed

Approval ID: E468743-20190627

**cULus Listed** 



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### Classifications

UNSPSC 21.0

### **ECLASS**

27440102
27440116
27440116
EC002635

39121400



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### Environmental product compliance

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



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### Accessories

### FLANGE-M23PRO-PW - Square mounting flange

1055768

https://www.phoenixcontact.com/pc/products/1055768





### SF-20KS021 - Crimp contact

1621576

https://www.phoenixcontact.com/pc/products/1621576



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



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### SF-20KS022 - Crimp contact

1621577

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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

### SF-20KS023 - Crimp contact

1621578

https://www.phoenixcontact.com/pc/products/1621578



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



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### ST-10KS010 - Crimp contact

1618239

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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

### ST-10KS035 - Crimp contact

1618464

https://www.phoenixcontact.com/pc/products/1618464



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



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

1055753

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



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

### PROT-M23PRO-OT-IP67 - Plastic protective cap

1055749

https://www.phoenixcontact.com/pc/products/1055749



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



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### M23PRO-VIB-ORING-OR - Sealing ring

1521137

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Vibration O-ring, optional accessory for M23 PRO device connectors



### M23PRO-VIB-ORING-GN - Sealing ring

1521138

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Vibration O-ring, optional accessory for M23 PRO device connectors



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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com