

# M23-7EP198A8022S - Cable connector



1628869

<https://www.phoenixcontact.com/us/products/1628869>

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M23, Cable connector, series: M23 PRO, straight short, shielded: yes, ONECLICK fast locking system, No. of pos.: 4+3+PE, contact connection type: Pin, 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
- ONECLICK fast locking system with an optically, haptically, and acoustically clear locking position
- 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	1628869
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB30
Product key	ABRBBB
Catalog page	Page 146 (C-2-2019)
GTIN	4055626617657
Weight per piece (including packing)	136.8 g
Weight per piece (excluding packing)	127 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Order information:	Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
Safety note	
Safety note	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"><li>• 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.</li><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><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li><li>• Assembled products may not be manipulated or improperly opened.</li><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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li><li>• Ensure that the protective or functional ground has been properly connected.</li><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><li>• Only use tools recommended by Phoenix Contact</li><li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li><li>• Operate the connector only when it is fully plugged in and interlocked.</li><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li><li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li><li>• 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</li></ul>

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warnings (e.g. DIN EN ISO 13732-1:2008-12).

## Mounting

Thread type	()
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## Product properties

Product type	Circular connector (cable-side)
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### Data management status

Article revision	05
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## Connector

### Insulating body

Note	Order information: Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	8
Connection profile	4+3+PE
Contact diameter <b>Power contacts</b>	2 mm
Litz wire cross-section <b>Power contacts</b> min.	0.25 mm²
Litz wire cross-section <b>Power contacts</b> max.	4 mm²
Rated current <b>Power contacts</b>	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 <b>Signal contacts</b>	1 mm
Litz wire cross-section <b>Signal contacts</b> min.	0.06 mm²
Litz wire cross-section <b>Signal contacts</b> max.	1 mm²
Nominal current per signal contact	9 A
Note	for max. connection cross section
Rated voltage <b>Signal contact</b>	250 V
Rated surge voltage	4 kV
Overvoltage category	III
Degree of pollution	3
Installation height	3000 m

### Housing

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Housing material	GD-Zn
Type of locking	ONECLICK fast locking system
Pg screw connection	none
Degree of protection (plugged in)	IP66 / IP68 (2m / 24h) / IP69K
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)
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

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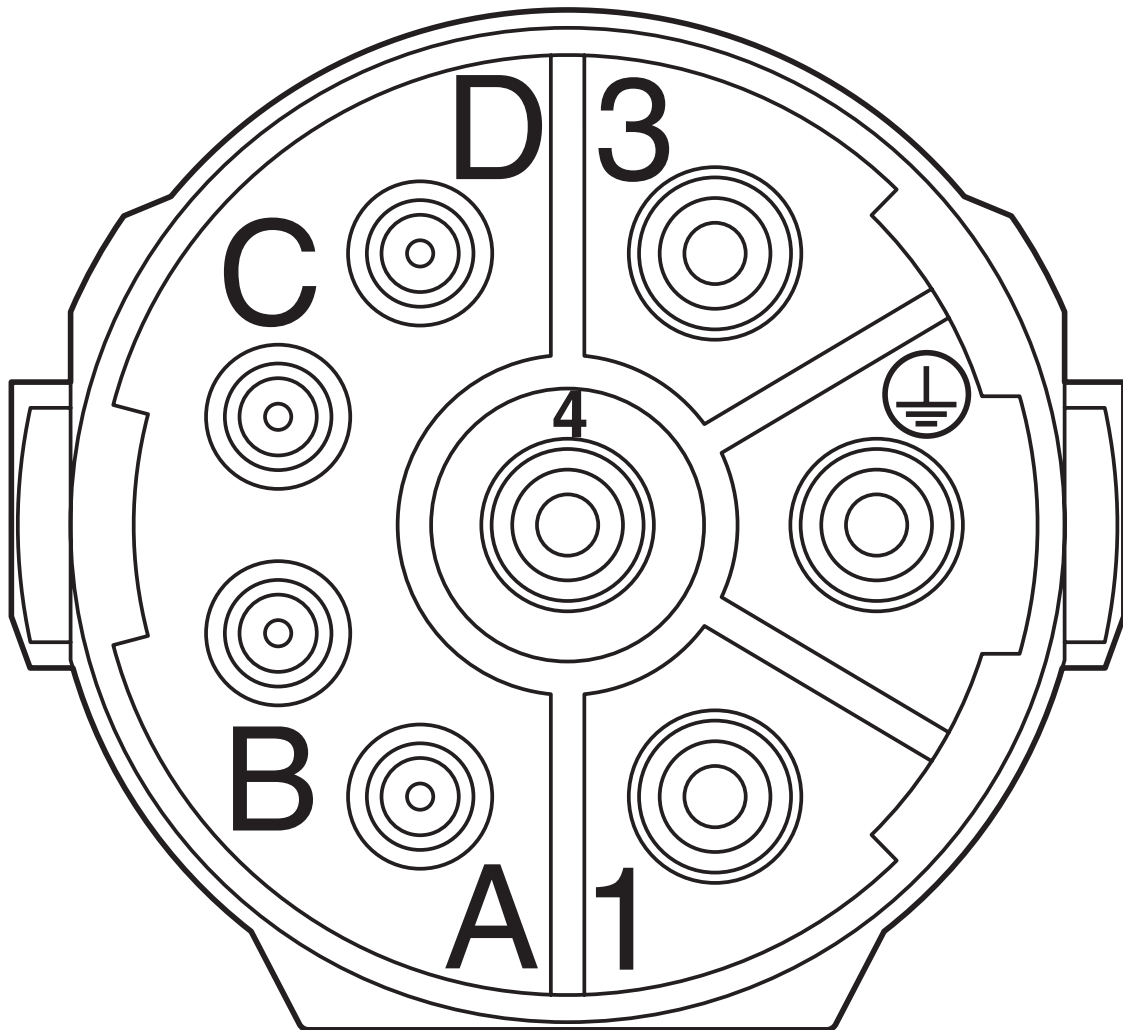


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## Drawings

Schematic diagram



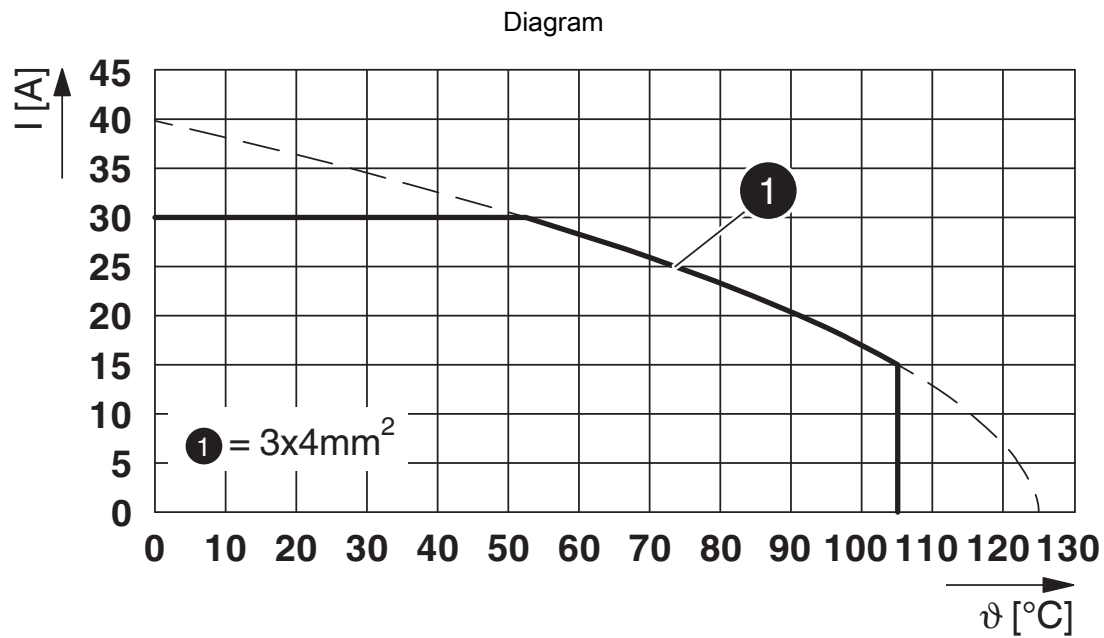
Connector pin assignment

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$I$  = current strength,  $\vartheta$  = ambient temperature, 3 x 30 A + 2 x 1 A constant

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1628869>



**UL Listed**  
Approval ID: E468743-20190627



**cUL Listed**  
Approval ID: E468743-20190627

**cULus Listed**

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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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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

EU RoHS	
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-Z0028 - Torque screwdriver

1607456

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

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



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### SF-Z0027 - Hook wrench

1607455

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

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



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## SF-20KP011 - Crimp contact

1050147

<https://www.phoenixcontact.com/us/products/1050147>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.25 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238179

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## SF-20KP012 - Crimp contact

1050205

<https://www.phoenixcontact.com/us/products/1050205>



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238179

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### SF-20KP013 - Crimp contact

1050210

<https://www.phoenixcontact.com/us/products/1050210>



Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: 2.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238180

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### ST-10KP010 - Crimp contact

1618255

<https://www.phoenixcontact.com/us/products/1618255>



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm<sup>2</sup> ... 0.25 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

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## ST-10KP035 - Crimp contact

1618458

<https://www.phoenixcontact.com/us/products/1618458>



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.25 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

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## 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

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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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