#### 1628803

https://www.phoenixcontact.com/us/products/1628803

**PHŒNI** 

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M23, Cable connector, series: M23 PRO, straight long, 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	1628803
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB36
Product key	ABRBBA
Catalog page	Page 146 (C-2-2019)
GTIN	4055626618913
Weight per piece (including packing)	160.3 g
Weight per piece (excluding packing)	149.2 g
Customs tariff number	85366990
Country of origin	DE

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### Technical data

General	Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
General	Please observe the derating curve.
afety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper us 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 a operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicat that only personnel familiar with electrical engineering are allowed to install and operate the product.
	<ul> <li>The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
	<ul> <li>When operating the connectors in outdoor applications, they must be separately protected against environmental influence</li> </ul>
	Assembled products may not be manipulated or improperly opened.
	<ul> <li>Only use mating connectors that are specified in the technica data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).</li> </ul>
	When using the product in direct connection with third-party manufacturers, the user is responsible.
	<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>
	VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1 are applicable when combining several circuits in a cable and/ 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>
	• 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.
	<ul> <li>The connector warms up in normal operation. Depending on ambient conditions, the surface of the connector can continue</li> </ul>

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Product properties Product type

Connector

Connection 1

Type of locking

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connector	<b>PHŒNIX</b> CONTACT
	warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
	Circular connector (cable-side)
	Socket
	Order information: Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
	PA 6.6
	100
	Crimp connection
	Socket
	Power
	8
	4+3+PE
	2 mm
nin.	0.25 mm²
nax.	4 mm <sup>2</sup>
	30 A
	for max. connection cross section
	630 V
	6 k)/

Head design	Socket
nsulating body	
Note	Order information: Order crimp contacts $4 \times \emptyset 1$ mm, $4 \times \emptyset 2$ mm 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 mm <sup>2</sup>
Litz wire cross-section Power contacts max.	4 mm <sup>2</sup>
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 mm <sup>2</sup>
Litz wire cross-section Signal contacts max.	1 mm <sup>2</sup>
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
lousing	
Housing material	GD-Zn

Screw locking mechanism



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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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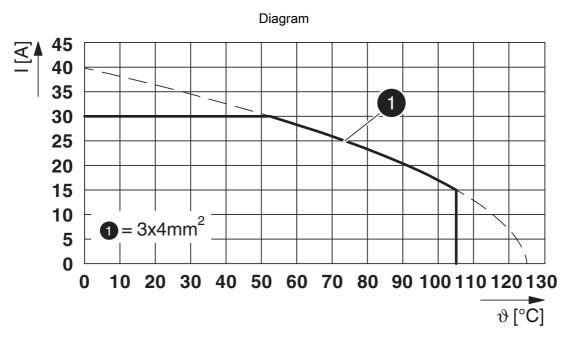
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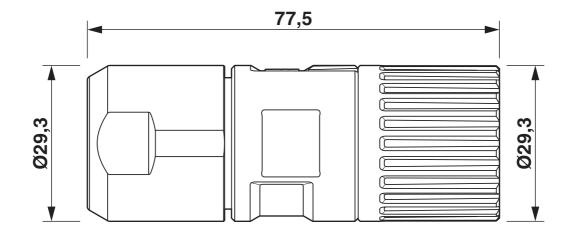
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### Drawings



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

Dimensional drawing



Technical drawings can be found under Downloads

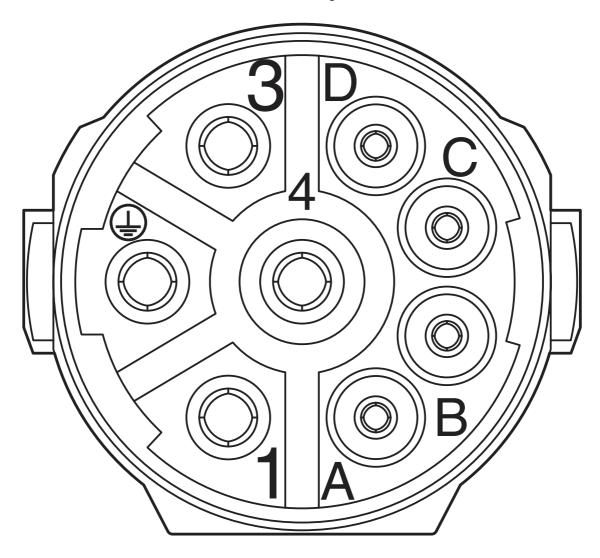




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Schematic diagram





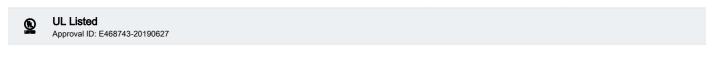
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### Approvals

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🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628803



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

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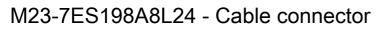
### Classifications

#### ECLASS

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

### ETIM

	ETIM 8.0	EC002635
UNSPSC		
	UNSPSC 21.0	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

SF-Z0028 - Torque screwdriver

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

Torque screwdriver, series: RC



SF-Z0027 - Hook wrench

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



Hook wrench, series: RC

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SF-20KS021 - Crimp contact

1621576

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



Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range:  $0.25 \text{ mm}^2$ .. . 1 mm<sup>2</sup>, 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:  $1.5 \text{ mm}^2 \dots 2.5 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1244461

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SF-20KS023 - Crimp contact

1621578

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



Crimp contact, Socket, turned, 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.: 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:  $0.06 \text{ mm}^2 \dots 0.25 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1243216

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ST-10KS035 - Crimp contact

#### 1618464

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



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range:  $0.25 \text{ mm}^2$ .. . 1 mm<sup>2</sup>, 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



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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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