M23-09P1N8A8003S - Cable connector

1629170

https://www.phoenixcontact.com/pc/products/1629170

PHŒNIX CONTACT

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M23, Cable connector, series: M23 PRO, straight, shielded: yes, ONECLICK fast locking system, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 6 mm ... 10 mm, coding: N, 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	1629170
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRABB
Catalog page	Page 76 (C-2-2019)
GTIN	4055626618036
Weight per piece (including packing)	102.6 g
Weight per piece (excluding packing)	96.23 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

General	Order crimp contacts 8 x Ø 1 mm, 1 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.
	• 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 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.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	• Assembled products may not be manipulated or improperly opened.
	• 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).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• 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
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• Operate the connector only when it is fully plugged in and interlocked.
	• 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.
	• 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

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

Product properties

Product type	Circular connector (cable-side)

Connector

Insulating body

Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
Coding	N
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Signal
Number of positions	9
Direction of rotation	Standard
Connection profile	8+1
Contact diameter Power contacts	2 mm
Litz wire cross-section Power contacts min.	0.5 mm²
Litz wire cross-section Power contacts max.	2.5 mm²
Rated current Power contacts	20 A
Note	for max. connection cross section
Rated voltage	300 V
Rated surge voltage	2.5 kV
Overvoltage category	II
Degree of pollution	3
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.08 mm²
Litz wire cross-section Signal contacts max.	1 mm²
Nominal current per signal contact	8 A
Note	for max. connection cross section
Rated voltage Signal contact	300 V
Rated surge voltage	2.5 kV
Overvoltage category	II
Degree of pollution	3
Installation height	2000 m

Housing

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	6 mm ... 10 mm
Seal material	FKM

Environmental and real-life conditions

Ambient conditions

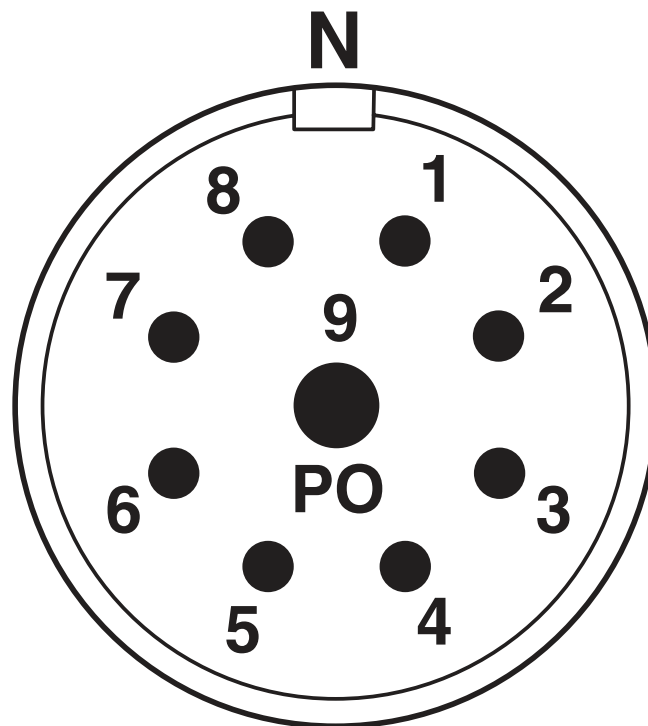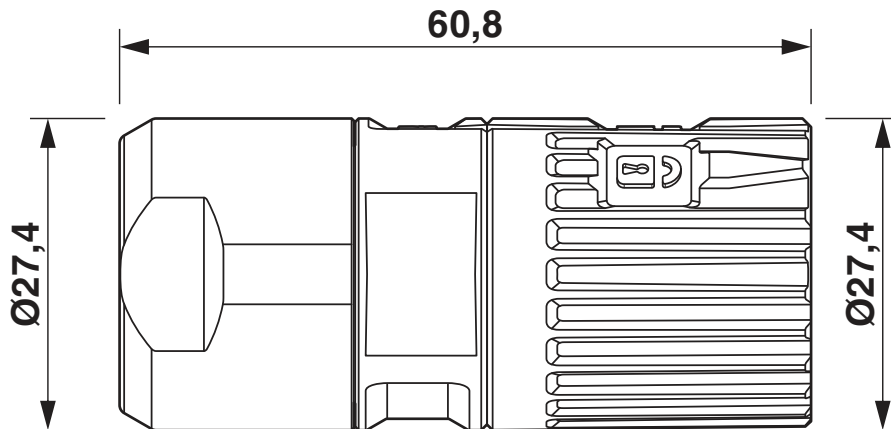|	
Ambient temperature (operation)	-40 °C ... 105 °C (see to derating)
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

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Drawings

Schematic diagram

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Dimensional drawing

60,8

Ø27,4

Ø27,4

Technical drawings can be found under Downloads

Diagram

I [A]

1 = 9 x 1,0 mm^2

ϑ [°C]
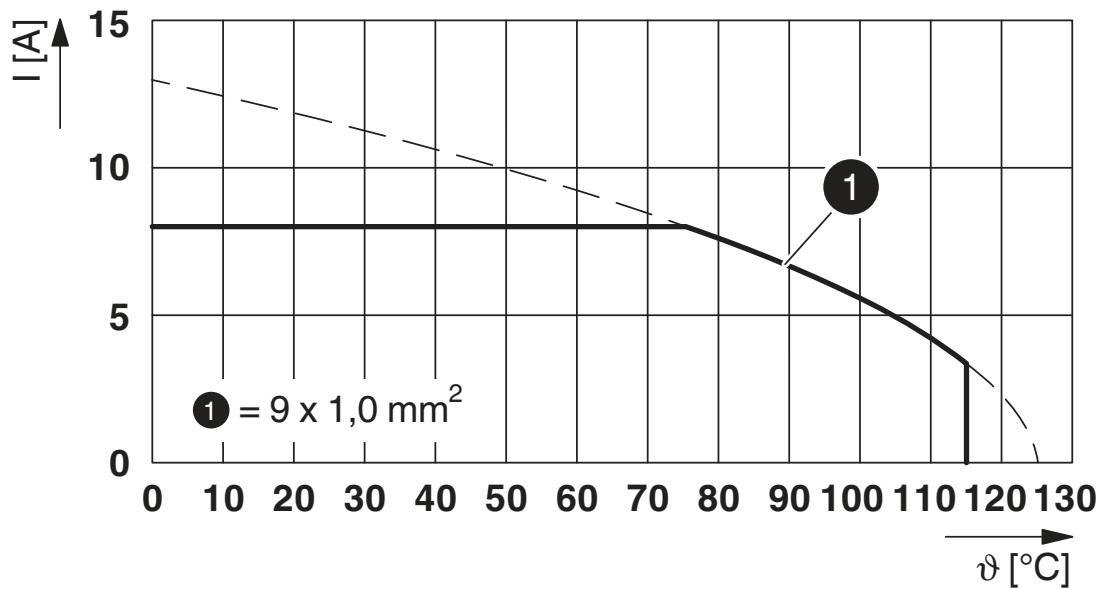
I = current strength, ϑ = ambient temperature, 9x 8 A

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1629170

	cUL Recognized
	Approval ID: E335019-20141210

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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

Environmental product compliance

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

Accessories

SF-Z0028 - Torque screwdriver

1607456

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

Torque screwdriver, series: RC

SF-Z0027 - Hook wrench

1607455

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Hook wrench, series: RC

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1629170

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RF-Z0007 - Special wrench

1614347

https://www.phoenixcontact.com/pc/products/1614347

Special wrench, series: RF

RC-11P2000 - Crimp contact

1596770

https://www.phoenixcontact.com/pc/products/1596770

Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm^2 ... 0.22 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1240882

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1629170

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RC-12P2000 - Crimp contact

1597862

https://www.phoenixcontact.com/pc/products/1597862

Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14 mm^2 ... 0.56 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1240882

RC-1KP2000 - Crimp contact

1602996

https://www.phoenixcontact.com/pc/products/1602996

Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm^2 ... 1 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241571

M23-09P1N8A8003S - Cable connector

1629170

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RC-22P2000 - Crimp contact

1603321

https://www.phoenixcontact.com/pc/products/1603321

Crimp contact, Pin, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.22 mm^2 ... 0.56 mm^2, Single contact, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

RC-22P2300 - Crimp contact

1603324

https://www.phoenixcontact.com/pc/products/1603324

Crimp contact, Pin, rolled, Taped articles, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.22 mm^2 ... 0.56 mm^2, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

M23-09P1N8A8003S - Cable connector

1629170

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RC-22P2400 - Crimp contact

1603325

https://www.phoenixcontact.com/pc/products/1603325

Crimp contact, Pin, rolled, Taped articles, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.22 mm^2 ... 0.56 mm^2, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb <0.1%)

RC-21P2000 - Crimp contact

1603310

https://www.phoenixcontact.com/pc/products/1603310

Crimp contact, Pin, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm^2 ... 0.22 mm^2, Single contact

M23-09P1N8A8003S - Cable connector

1629170

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RC-21P2300 - Crimp contact

1603313

https://www.phoenixcontact.com/pc/products/1603313

Crimp contact, Pin, rolled, Taped articles, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.08 mm^2 ... 0.22 mm^2

RC-21P2400 - Crimp contact

1611637

https://www.phoenixcontact.com/pc/products/1611637

Crimp contact, Pin, rolled, Taped articles, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.08 mm^2 ... 0.22 mm^2

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1629170

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RC-5SP2000 - Crimp contact

1603529

https://www.phoenixcontact.com/pc/products/1603529

Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.5 mm^2 ... 0.75 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241632

RC-59P2000 - Crimp contact

1603498

https://www.phoenixcontact.com/pc/products/1603498

Crimp contact, Pin, turned, Single contact, contact diameter: 2 mm, crimp range: 0.75 mm^2 ... 1 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241632

M23-09P1N8A8003S - Cable connector

1629170

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RC-5CP2000 - Crimp contact

1603513

https://www.phoenixcontact.com/pc/products/1603513

Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1 mm^2 ... 1.5 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241634

RC-5AP2000 - Crimp contact

1603505

https://www.phoenixcontact.com/pc/products/1603505

Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1.5 mm^2 ... 2.5 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1241634

M23-09P1N8A8003S - Cable connector

PROT-M23PRO-SG-IT-IP20 - Plastic protective cap

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

PROT-M23PRO-SG-IT-IP67 - Plastic protective cap

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