M23-09S1N8AA600S - Device connector front mounting

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M23, Device connector front mounting, series: M23 PRO, angled rotatable, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, flange dimensions: 28 mm x 28 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
- Modern, consistent design for highly convenient operation
- Crimping connection: vibration- and temperature-resistant assembly
- All housing can be fitted with pin or socket contacts
- Safe use in the field, thanks to high degree of protection

Commercial data

Item number	1341949
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	ABRABM
GTIN	4063151651350
Weight per piece (including packing)	128.1 g
Weight per piece (excluding packing)	128 g
Customs tariff number	85366990
Country of origin	DE

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https://www.phoenixcontact.com/in/products/1341949

Technical data

Notes

Order information:	Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
Notes on operation	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.
	• 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

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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).

Product properties

Product type	Circular connectors (device side)

Material specifications

Flammability rating according to UL 94	V0

Connector

Insulating body

Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
Coding	N
Connection method	Crimp connection
Contact switching type	Socket
Application	Signal
Number of positions	9
Direction of rotation	Standard
Connection profile	8+1
Contact diameter Power contacts	2 mm
Rated current Power contacts	20 A
Rated voltage	48 V AC
	74 V DC
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Signal contacts	1 mm
Nominal current per signal contact	8 A

Housing

Housing material	GD-Zn
Flange dimensions	28 mm x 28 mm
Type of locking	for standard and ONECLICK fast locking system
Degree of protection (plugged in)	IP66 / IP68 (2 m / 24 h)
Thread type	M23

Environmental and real-life conditions

Ambient conditions

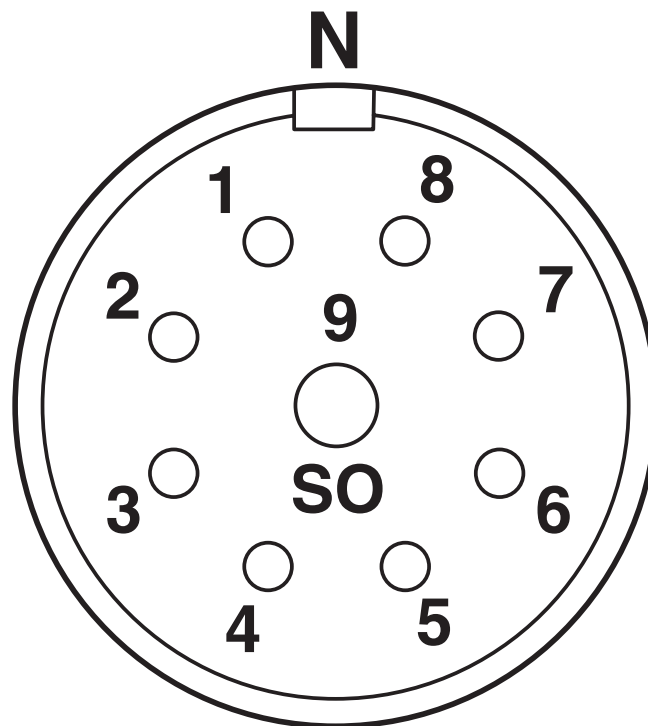| Degree of protection	IP68
Ambient temperature (operation)	-40 °C ... 105 °C (see to derating)
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

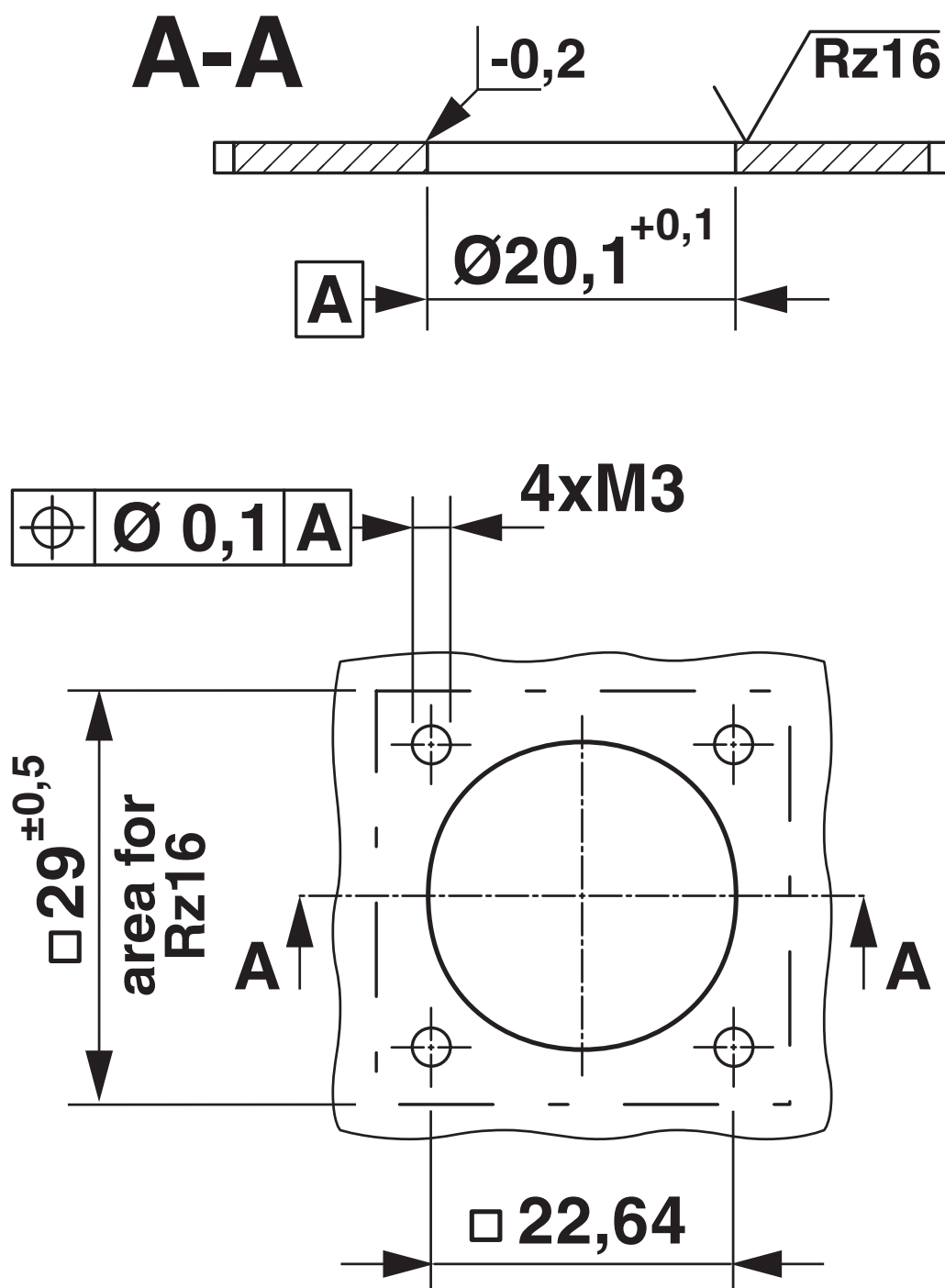# M23-09S1N8AA600S - Device connector front mounting

Drawings

Schematic diagram

Connector pin assignment

Dimensional drawing

A-A

-0,2

Rz16

A

$\varnothing 20,1^{+0,1}$

$\oplus$ | $\varnothing$ 0,1 | A

4xM3

$\square 29^{\pm 0,5}$

area for Rz16

A

A

$\square$ 22,64

Installation dimensions

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Diagram
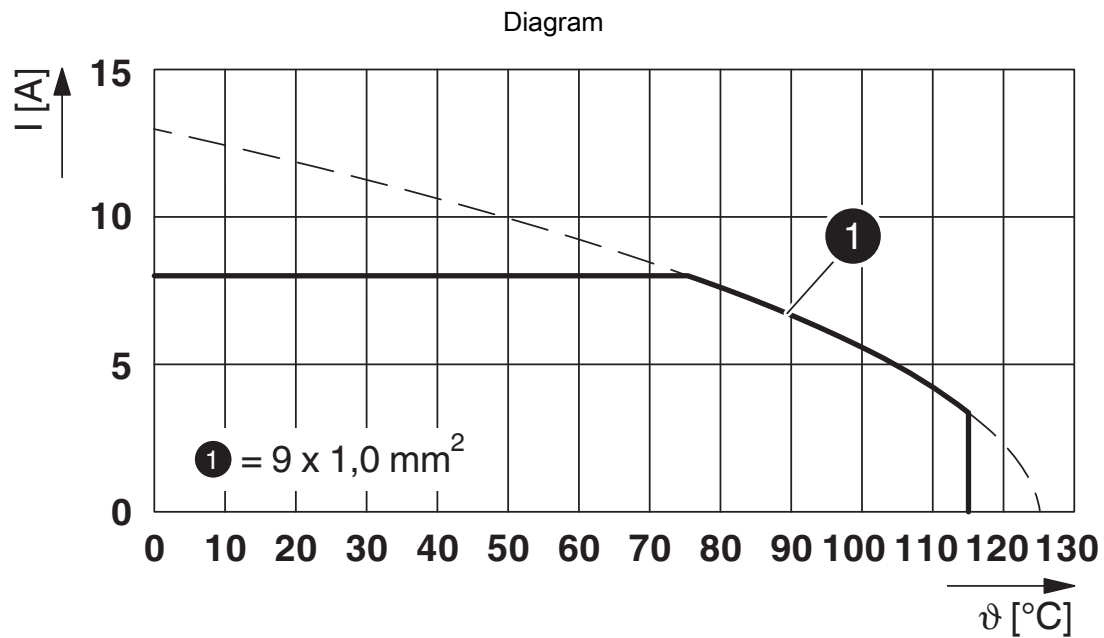
I = current strength, ϑ = ambient temperature, 9x 8 A

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1341949

cUL Recognized
Approval ID: E335019-20141210

UL Recognized
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cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

ETIM

ETIM 9.0	EC003569

UNSPSC

UNSPSC 21.0	39121400

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CONTACT

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

M23-Z0001 - Screw

1035117

https://www.phoenixcontact.com/in/products/1035117

Anchor screw, self-tapping, for M23-PRO series angled device connectors

RC-Z2220 - Contact insertion and removal tool

1604360

https://www.phoenixcontact.com/in/products/1604360

Positioning and removal tool for RC crimp contacts, pin/socket diameter: 2 mm

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RC-Z2490 - Contact insertion and removal tool

1611803

https://www.phoenixcontact.com/in/products/1611803

Positioning and unlocking tool for RC crimp contacts (D-SUB) for pin/socket, diameter: 2 mm

RC-Z2097 - Contact insertion and removal tool

1604251

https://www.phoenixcontact.com/in/products/1604251

Insertion and removal tool for RC crimp contacts for pin/socket, diameter: 1 mm, connection cross-section: 0.08 mm^2 ... 0.56 mm^2

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RC-Z2494 - Contact insertion and removal tool

1614123

https://www.phoenixcontact.com/in/products/1614123

Positioning and removal tool for RC crimp contacts, pin/socket diameter: 1 mm

RC-5SS2000 - Crimp contact

1603530

https://www.phoenixcontact.com/in/products/1603530

Crimp contact, Socket, 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.: 1241633

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RC-59S2000 - Crimp contact

1603501

https://www.phoenixcontact.com/in/products/1603501

Crimp contact, Socket, 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.: 1241633

RC-5CS2000 - Crimp contact

1603517

https://www.phoenixcontact.com/in/products/1603517

Crimp contact, Socket, 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.: 1241635

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https://www.phoenixcontact.com/in/products/1341949

RC-5AS2000 - Crimp contact

1603509

https://www.phoenixcontact.com/in/products/1603509

Crimp contact, Socket, 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.: 1241635

RC-11S2000 - Crimp contact

1596772

https://www.phoenixcontact.com/in/products/1596772

Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm^2 ... 0.22 mm^2, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241093

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https://www.phoenixcontact.com/in/products/1341949

RC-12S2000 - Crimp contact

1599600

https://www.phoenixcontact.com/in/products/1599600

Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14 mm^2 ... 0.56 mm^2, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241093

RC-1KS2000 - Crimp contact

1602998

https://www.phoenixcontact.com/in/products/1602998

Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm^2 ... 1 mm^2, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241572

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1341949

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RC-22S2000 - Crimp contact

1603327

https://www.phoenixcontact.com/in/products/1603327

Crimp contact, Socket, 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-21S2000 - Crimp contact

1603315

https://www.phoenixcontact.com/in/products/1603315

Crimp contact, Socket, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm^2 ... 0.22 mm^2, Single contact, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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1341949

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RC-22S2300 - Crimp contact

1603330

https://www.phoenixcontact.com/in/products/1603330

Crimp contact, Socket, rolled, Taped product, 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 %)

RC-22S2400 - Crimp contact

1603332

https://www.phoenixcontact.com/in/products/1603332

Crimp contact, Socket, rolled, Taped product, 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 %)

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1341949

https://www.phoenixcontact.com/in/products/1341949

RC-21S2300 - Crimp contact

1603318

https://www.phoenixcontact.com/in/products/1603318

Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.08 mm^2 ... 0.22 mm^2, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

RC-21S2400 - Crimp contact

1616500

https://www.phoenixcontact.com/in/products/1616500

Crimp contact, Socket, rolled, Taped product, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.08 mm^2 ... 0.22 mm^2, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

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

Plastic protective cap, M23, series: M23 PRO

PROT-M23PRO-OT-IP67 - Plastic protective cap

1055749

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

Plastic protective cap, M23, series: M23 PRO Signal

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1341949

https://www.phoenixcontact.com/in/products/1341949

M23PRO-VIB-ORING-GN - Sealing ring

1521138

https://www.phoenixcontact.com/in/products/1521138

Vibration O-ring, optional accessory for M23 PRO device connectors
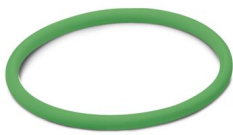
M23PRO-VIB-ORING-OR - Sealing ring

1521137

https://www.phoenixcontact.com/in/products/1521137

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