M23-06S1N8AW500S - Device connector front mounting

1629094

https://www.phoenixcontact.com/us/products/1629094

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



M23, Device connector front mounting, series: M23 PRO Signal, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 6, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, 4x Ø 3.2, flange dimensions: 26 mm x 26 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	1629094
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRABL
GTIN	4055626763057
Weight per piece (including packing)	40.1 g
Weight per piece (excluding packing)	40 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order crimp contacts 6 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

	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 6 x Ø 2 mm separately
Coding	N
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
Application	Signal
Number of positions	6
Direction of rotation	Standard
Connection profile	6
Contact diameter Signal contacts	2 mm
Litz wire cross-section Signal contacts min.	0.5 mm²
Litz wire cross-section Signal contacts max.	2.5 mm²
Nominal current per signal contact	20 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

Housing

Housing material	GD-Zn
Flange dimensions	26 mm x 26 mm
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)
Thread type	M23

Environmental and real-life conditions

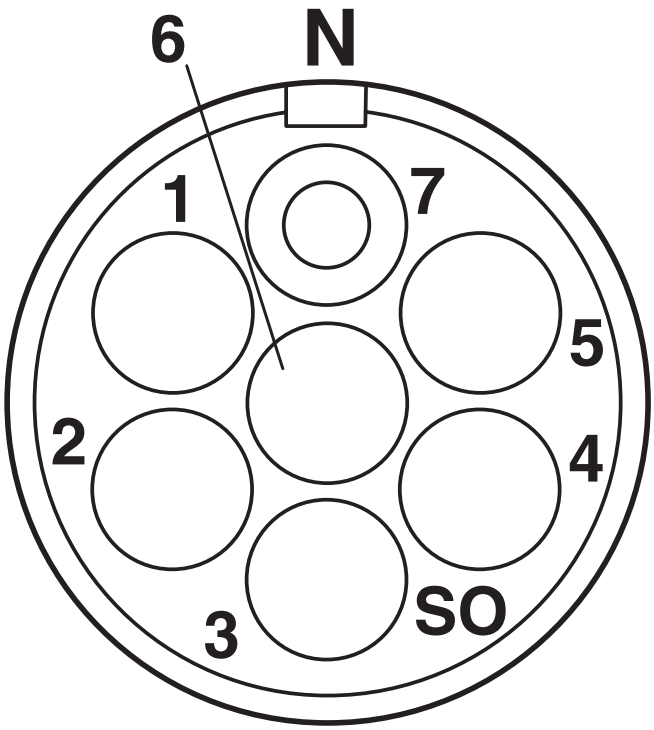
Ambient conditions

Degree of protection	IP68
Ambient temperature (operation)	-40 °C ... 105 °C (see to derating)

Ambient temperature (storage/transport)	15 °C ... 25 °C
Altitude	2000 m
Permissible humidity (storage/transport)	50 % ... 65 %
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

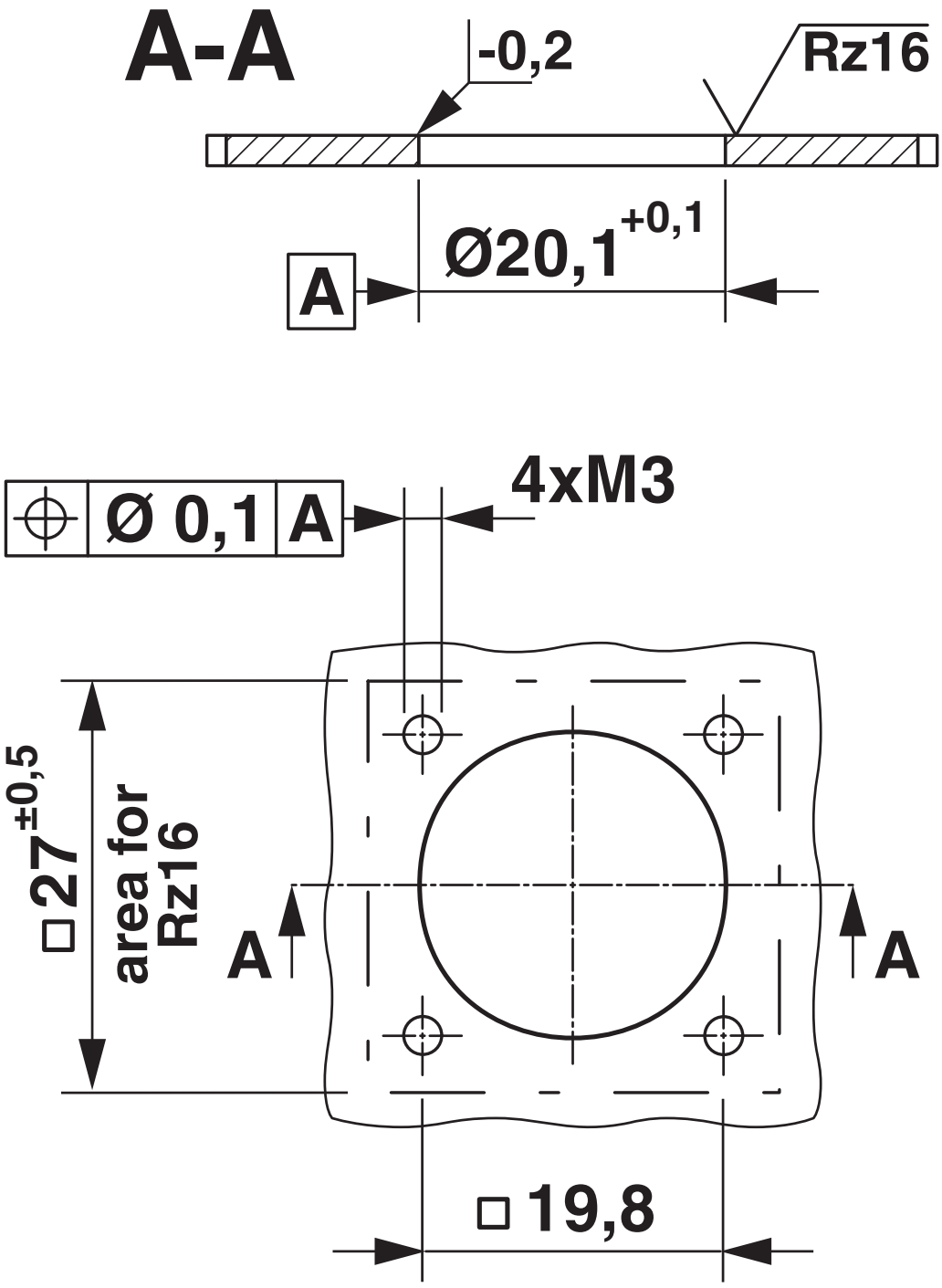
Drawings

Schematic diagram



Connector pin assignment

Dimensional drawing



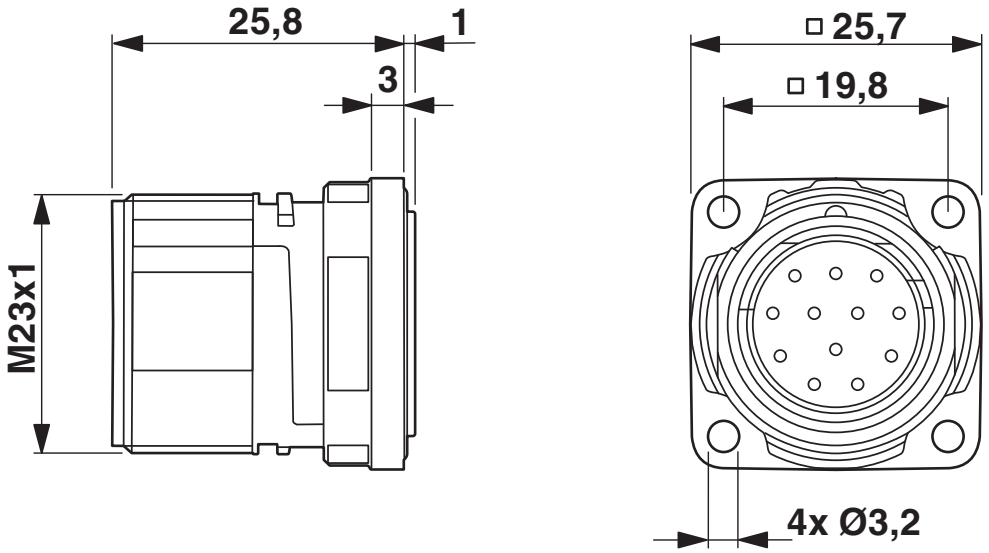
Installation dimensions

M23-06S1N8AW500S - Device connector front mounting

1629094

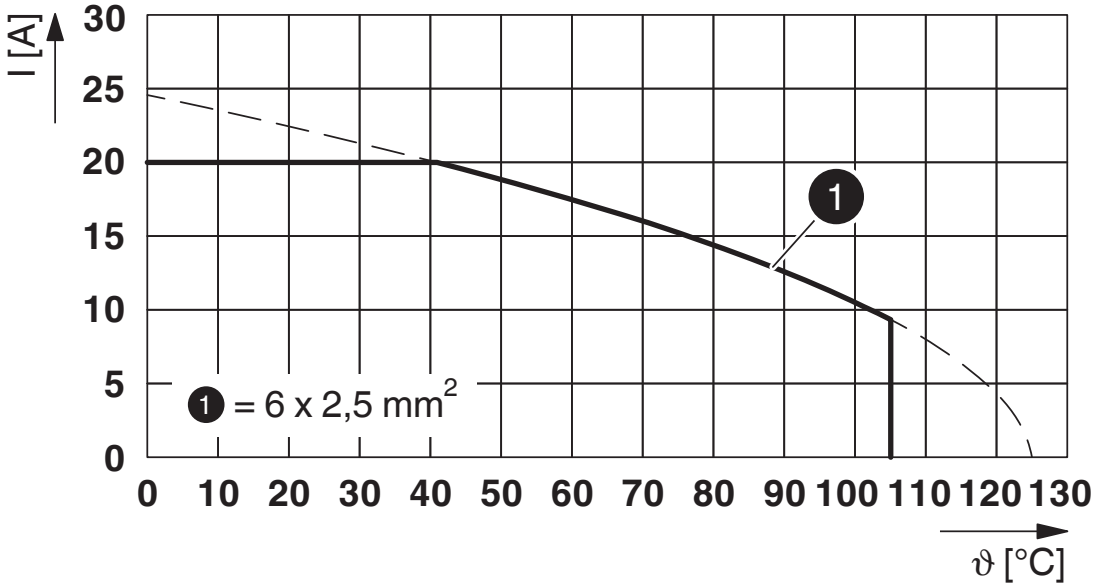
https://www.phoenixcontact.com/us/products/1629094

Dimensional drawing



Technical drawings can be found under Downloads

Diagram



I = current strength, ϑ = ambient temperature, 6x 20 A

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC003569

UNSPSC

UNSPSC 21.0	39121400

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%

Accessories

CA-Z0001 - Contact removal tool

1620699

https://www.phoenixcontact.com/us/products/1620699



Unlocking tool for contact carriers for snapping in the M23 signal device connectors

RC-Z2220 - Contact insertion and removal tool

1604360

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



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

RC-Z2490 - Contact insertion and removal tool

1611803

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



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

RC-5SS2000 - Crimp contact

1603530

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

RC-59S2000 - Crimp contact

1603501

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

M23-06S1N8AW500S - Device connector front mounting

1629094

https://www.phoenixcontact.com/us/products/1629094

RC-5AS2000 - Crimp contact

1603509

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

PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

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



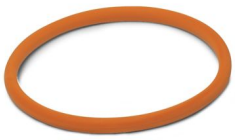
Plastic protective cap, M23, degree of protection: IP67, series: M23 PRO Signal

M23PRO-VIB-ORING-OR - Sealing ring

1521137

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

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

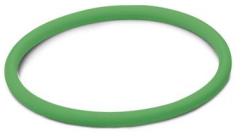


M23PRO-VIB-ORING-GN - Sealing ring

1521138

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

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

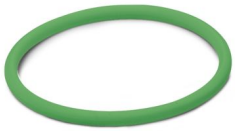


M23PRO-VIB-ORING-GN - Sealing ring

1521138

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

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



M23-06S1N8AW500S - Device connector front mounting

1629094

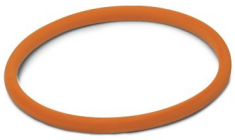
https://www.phoenixcontact.com/us/products/1629094

M23PRO-VIB-ORING-OR - Sealing ring

1521137

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

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



Phoenix Contact 2024 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com