

Device connector front mounting - M23-5EP198AA500S



1628487

<https://www.phoenixcontact.com/sk/products/1628487>

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M23, Device connector front mounting, M23 PRO, angled rotatable, for standard and ONECLICK fast locking system, No. of pos.: 5+PE, type of contact: Pin, Crimp connection, flange dimensions: 26 mm x 26 mm

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	1628487
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	ABR
Product Key	ABRCIL
Catalog Page	Page 147 (C-2-2019)
GTIN	4055626622187
Weight per Piece (including packing)	128.3 g
Weight per Piece (excluding packing)	112.26 g
Customs tariff number	85366990
Country of origin	DE

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Technical Data

Notes

Order information:	Order crimp contacts 6 x Ø 2 mm separately
Notes on operation	Protective conductor housing connection in accordance with DIN EN 61984 (VDE 0627)

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

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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)
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Material specifications

Flammability rating according to UL 94	V0
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Connector

Insulating body

Note	Order information: Order crimp contacts 6 x Ø 2 mm separately
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact type	Pin
Application	Power
Number of positions	6
Connection profile	5+PE
Contact diameter	2 mm
Litz wire cross-section	0.25 mm ²
Litz wire cross-section	4 mm ²
Rated current	30 A
Note	for max. connection cross section
Rated voltage	630 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Installation height	3000 m

Housing

Housing material	GD-Zn
Flange dimensions	26 mm x 26 mm
Type of locking	for standard and ONECLICK fast locking system
Degree of protection (plugged in)	IP66 / IP68 (2m / 24h) / IP69K
Thread type	M23

Environmental and real-life conditions

Ambient conditions

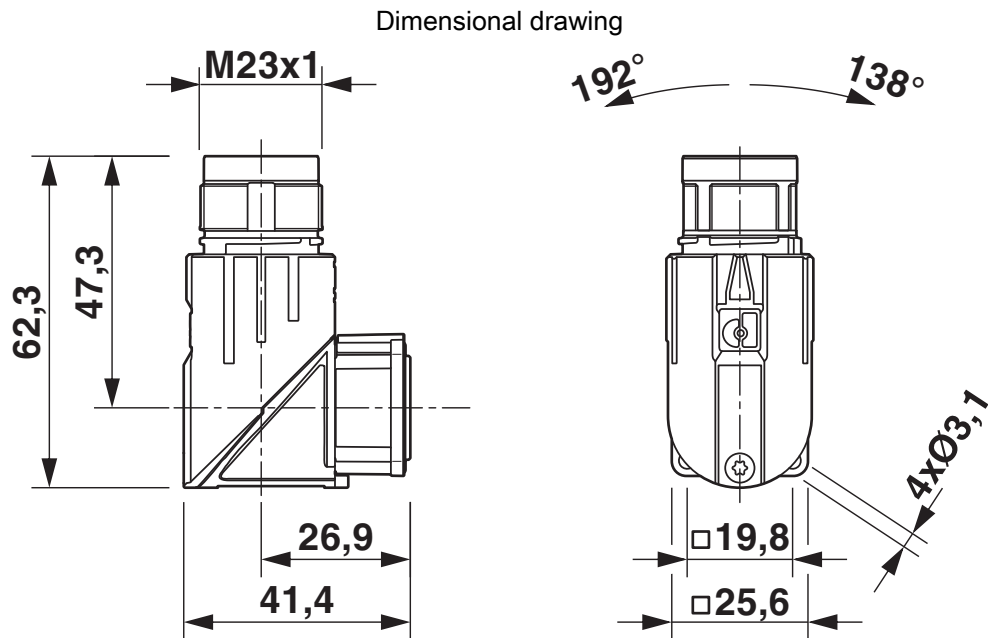
Degree of protection	IP68
Ambient temperature (operation)	-40 °C ... 105 °C (see to derating)
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

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Drawings



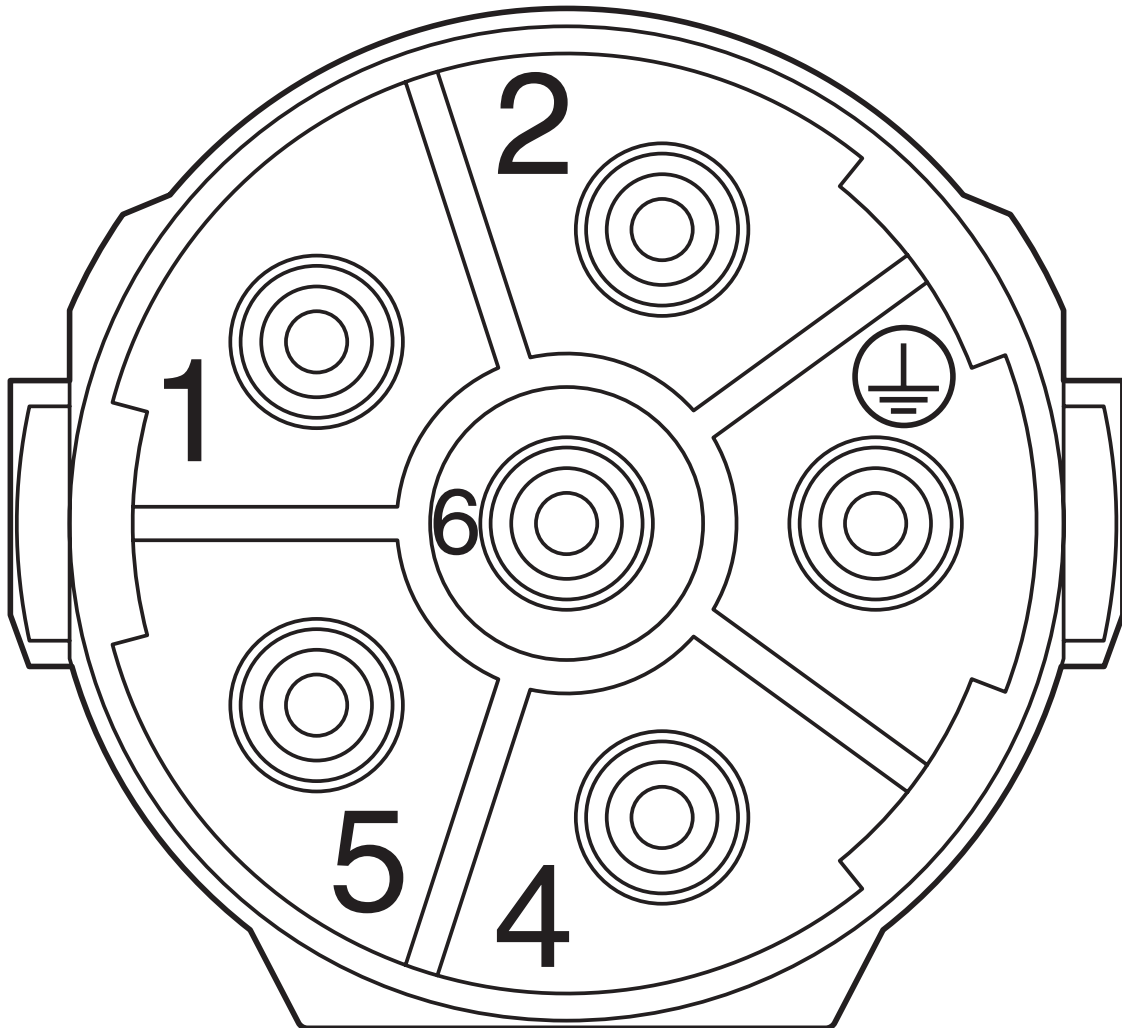
Technical drawings can be found under Downloads

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Schematic diagram

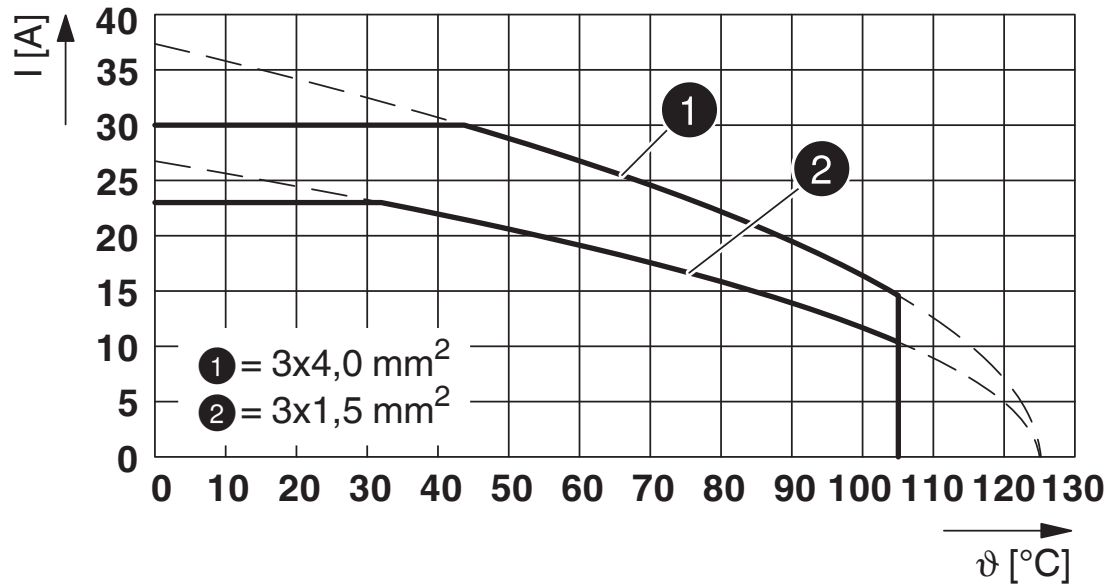


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Diagram



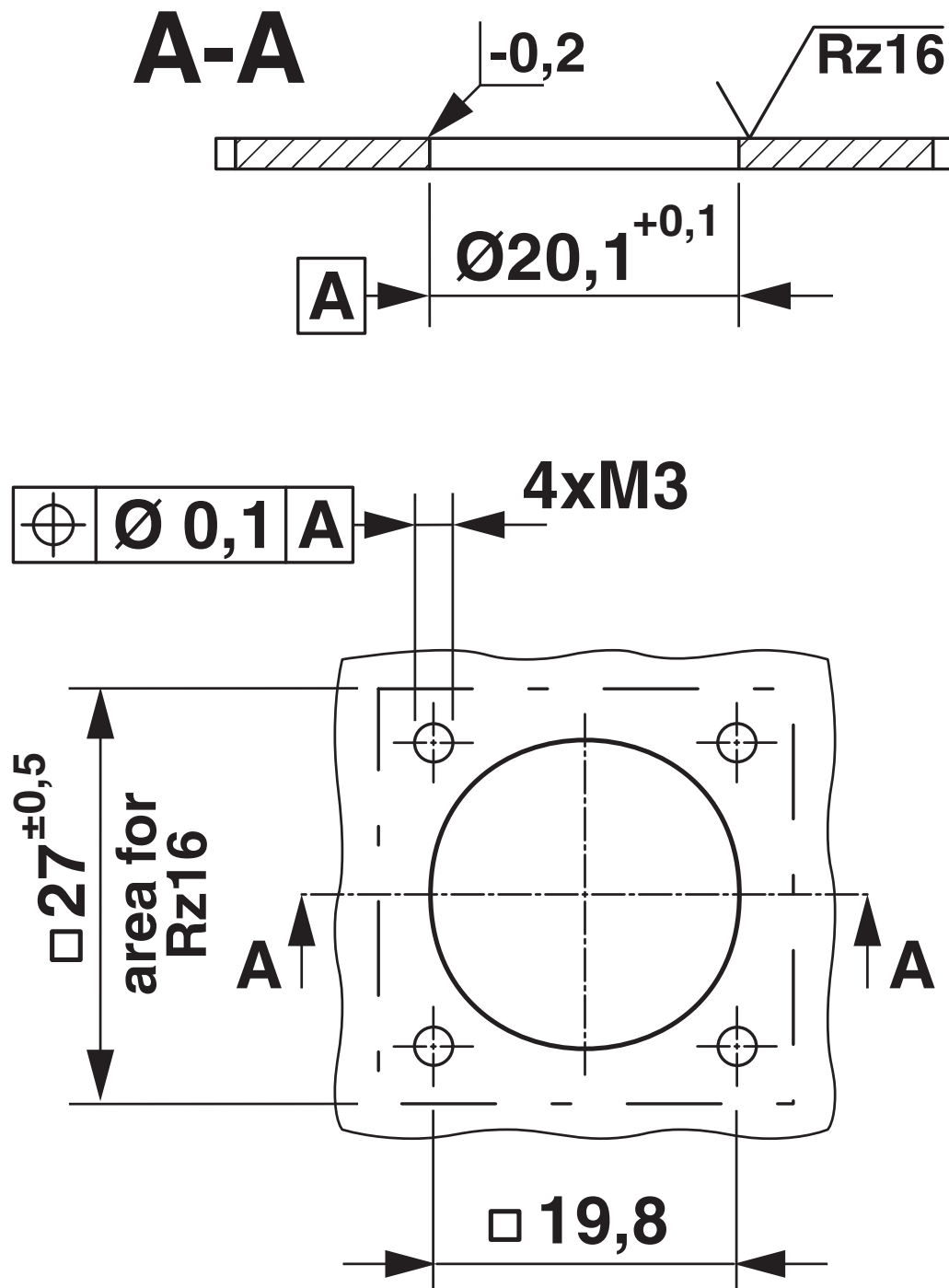
I = current strength, θ = ambient temperature, power contacts: 3 x 30 A, signal contacts: 2 x 2 A

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Dimensional drawing



Installation dimensions

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Approvals



UL Listed

Approval ID: E468743-20190627



cUL Listed

Approval ID: E468743-20190627

cULus Listed

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Classifications

ECLASS

ECLASS-9.0	27440103
ECLASS-10.0.1	27440109
ECLASS-11.0	27440109

ETIM

ETIM 8.0	EC003569
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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

Screw

Screw - M23-Z0001 - 1035117

<https://www.phoenixcontact.com/sk/products/1035117>

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



Protective cap

Protective cap - RC-Z2058 - 1604223

<https://www.phoenixcontact.com/sk/products/1604223>

Plastic protection cap for connectors with M23 knurled nut



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Metal protective cap

Metal protective cap - SC-Z2319 - 1605456

<https://www.phoenixcontact.com/sk/products/1605456>

Metal protection cap for power connectors with M23 external thread



Color-coding

Color-coding - RF-Z0018 - 1620625

<https://www.phoenixcontact.com/sk/products/1620625>

Color-coding, color: orange



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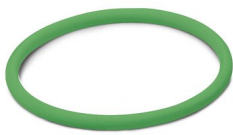
<https://www.phoenixcontact.com/sk/products/1628487>

Color-coding

Color-coding - RF-Z0017 - 1620624

<https://www.phoenixcontact.com/sk/products/1620624>

Color-coding, color: green



Crimp contact

Crimp contact - SF-20KP011 - 1050147

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



Crimp contact, turned, contact diameter: 2 mm, crimp range: 0.25 mm² ... 1 mm²
item no.: 1238179

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Crimp contact

Crimp contact - SF-20KP012 - 1050205

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



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 1 mm² ... 2.5 mm² item no.: 1238179

Crimp contact

Crimp contact - SF-20KP013 - 1050210

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



Crimp contact, turned, Single contact, contact diameter: 2 mm, crimp range: 2.5 mm² ... 4 mm² item no.: 1238180

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Plastic protective cap

Plastic protective cap - PROT-M23PRO-OT-IP20 - 1055753

<https://www.phoenixcontact.com/sk/products/1055753>



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

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