

1628831

https://www.phoenixcontact.com/us/products/1628831

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M23, Device connector front mounting, series: M23 PRO, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 4+3+PE, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, $4x \varnothing 3.2$, flange dimensions: $28 \text{ mm} \times 28 \text{ mm}$, 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	1628831
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBBL
GTIN	4055626763354
Weight per piece (including packing)	55.5 g
Weight per piece (excluding packing)	39.096 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order information:	Order crimp contacts 4 x Ø 1 mm, 4 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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Overvoltage category

Degree of pollution

Installation height

	warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).
oduct properties	
Product type	Circular connectors (device side)
aterial specifications	
Flammability rating according to UL 94	VO
onnector	
Insulating body	
Note	Order information: Order crimp contacts 4 x Ø 1 mm, 4 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	Power
Number of positions	8
Direction of rotation	Standard
Connection profile	4+3+PE
Contact diameter Power contacts	2 mm
Litz wire cross-section Power contacts min.	0.25 mm²
Litz wire cross-section Power contacts max.	4 mm²
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 ²
Litz wire cross-section Signal contacts max.	1 mm²
Nominal current per signal contact	9 A
Note	for max. connection cross section
Rated voltage Signal contact	250 V
Rated surge voltage	4 kV

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3000 m



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Housing

Thread type	M23
Type of locking	for standard and ONECLICK fast locking system
Mounting type	Front mounting (4x Ø 3.2 mm)
Flange dimensions	28 mm x 28 mm
Housing material	GD-Zn
Degree of protection (plugged in)	IP66 / IP68 (2m / 24h) / IP69K

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP68
Ambient temperature (operation)	-40 °C 105 °C (see to derating)
Altitude	2000 m
Permanent temperature	125 °C (DIN EN 60512-9-2 / 1000 h)

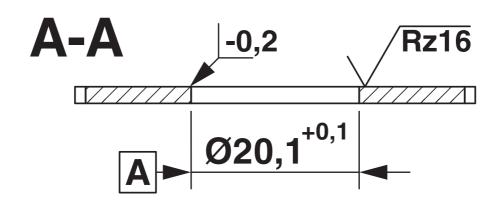


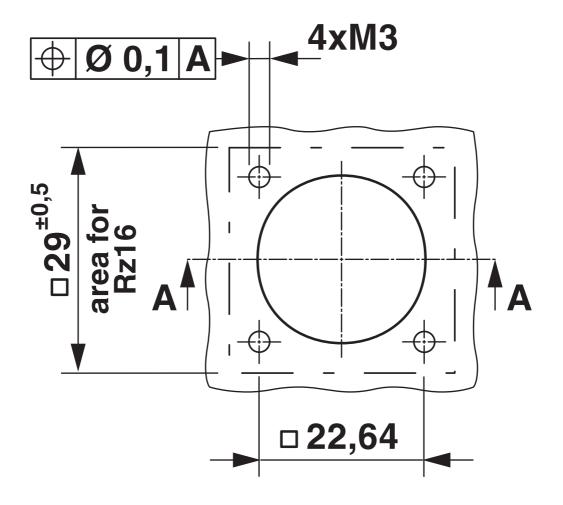
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Drawings

Dimensional drawing





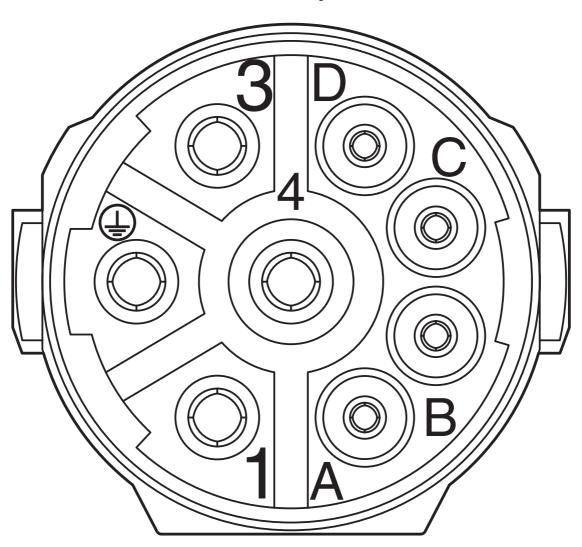
Installation dimensions



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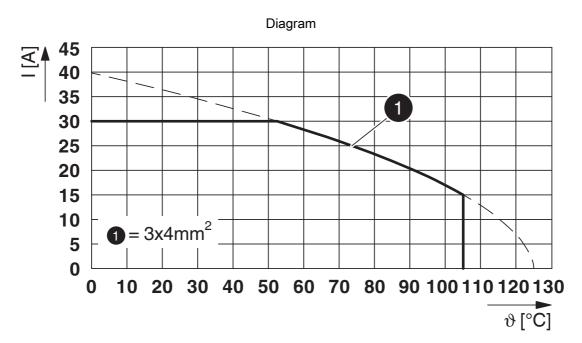


Connector pin assignment



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628831



UL Listed

Approval ID: E468743-20190627



cUL Listed

Approval ID: E468743-20190627

cULus Listed



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Classifications

ECLASS

UNSPSC 21.0

	ECLASS-11.0	27440109
	ECLASS-12.0	27440109
	ECLASS-13.0	27440109
ETIM		
	ETIM 9.0	EC003569
UNSPSC		

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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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