M23-07P1N8A8003S - Cable connector

1629178

https://www.phoenixcontact.com/us/products/1629178

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The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

M23, Cable connector, application: Signal, series: M23 PRO, straight, shielded: yes, ONECLICK fast locking system, No. of pos.: 7, 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	1629178
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB30
Product key	ABRABB
GTIN	4055626618111
Weight per piece (including packing)	112.6 g
Weight per piece (excluding packing)	112.6 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order 7 x Ø 2 mm crimp contacts separately

Product properties

Product type	Circular connector (cable-side)
Product family	M23 PRO

Connector

Insulating body

Note	Order information: Order 7 x Ø 2 mm crimp contacts separately
Coding	N
Material (Insulating body)	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Signal
Number of positions	7
Direction of rotation	Standard
Connection profile	7
Installation height	2000 m
Number (Signal contacts)	7
Contact diameter (Signal contacts)	2 mm
Litz wires Min. cross section (Signal contacts)	0.5 mm²
Litz wires Max. cross section (Signal contacts)	2.5 mm²
Rated current Contact (Signal contacts)	20 A (for max. connection cross section)
Rated voltage Contact (Signal contacts)	300 V
Rated surge voltage	2.5 kV
Overvoltage category	II
Degree of pollution	3

Housing

Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	ONECLICK fast locking system
Pg screw connection	none
Material (Housing)	GD-Zn
Degree of protection (plugged in)	IP66/IP68 (2 m / 24 h) IP69K

Seal

External cable diameter	6 mm ... 10 mm
Seal material	FKM

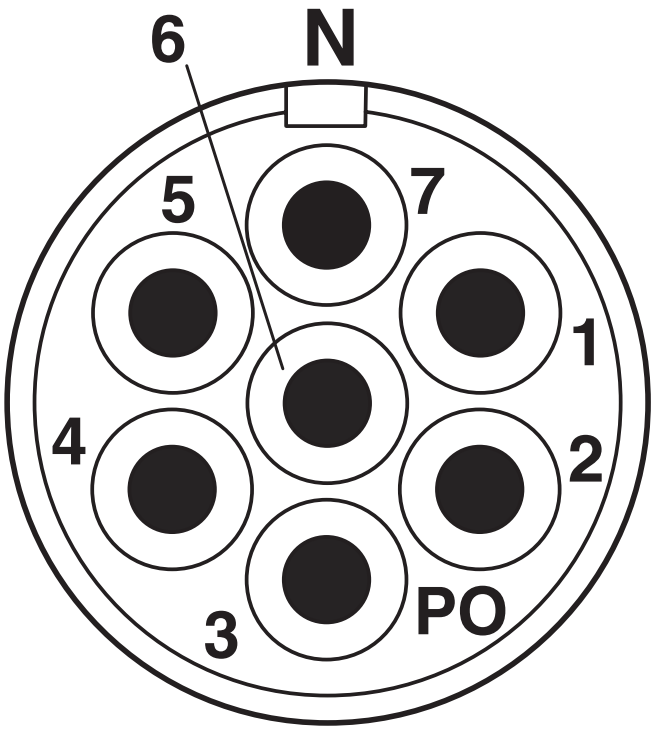
Environmental and real-life conditions

Ambient conditions

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

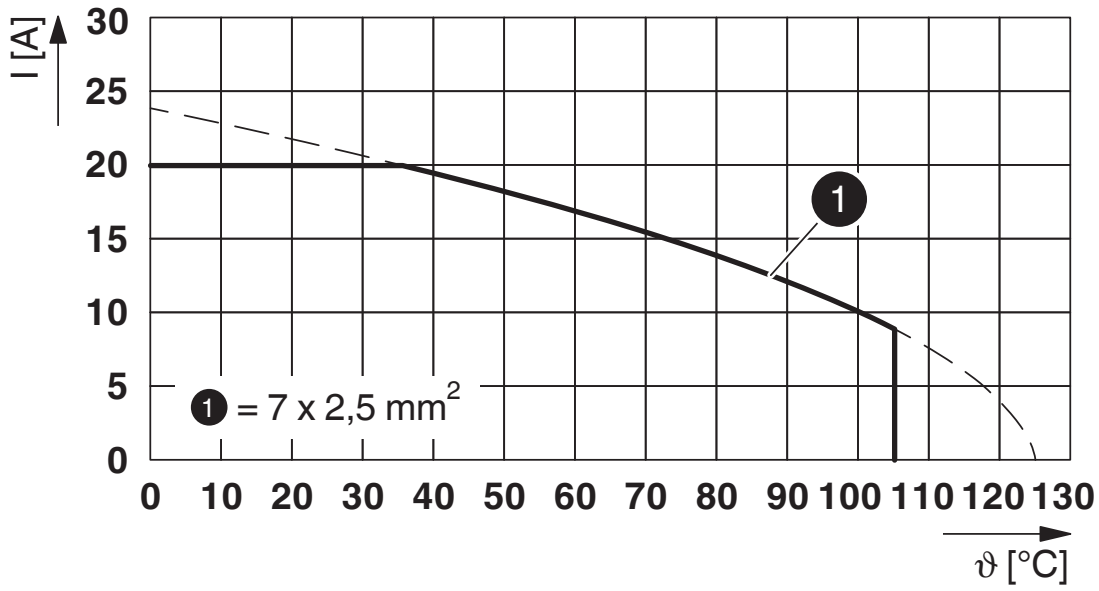
Drawings

Schematic diagram



Connector pin assignment

Diagram



I = current strength, ϑ = ambient temperature, 7x 20 A

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1629178

cUL Recognized
Approval ID: E335019-20141210

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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

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%

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