M23-5EP198A8023 - Cable connector

1628881

https://www.phoenixcontact.com/us/products/1628881

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

M23, Cable connector, application: Power, series: M23 PRO, straight short, shielded: yes, Screw locking mechanism, No. of pos.: 5+PE, contact connection type: Pin, Crimp connection, cable diameter range: 7.5 mm ... 12 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
- 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	1628881
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBBA
GTIN	4055626617770
Weight per piece (including packing)	140.4 g
Weight per piece (excluding packing)	123.841 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order crimp contacts 6 x Ø 2 mm separately

Product properties

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

Connector

Insulating body

Note	Order information: Order crimp contacts 6 x Ø 2 mm separately
Coding	N
Material (Insulating body)	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Pin
Application	Power
Number of positions	6
Connection profile	5+PE
Installation height	3000 m
Number (Contact group 1)	6
Contact diameter (Contact group 1)	2 mm
Litz wires Min. cross section (Contact group 1)	0.25 mm²
Litz wires Max. cross section (Contact group 1)	4 mm²
Rated current Contact (Contact group 1)	30 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	630 V
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3

Housing

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

Seal

External cable diameter	7.5 mm ... 12 mm
Seal material	FKM

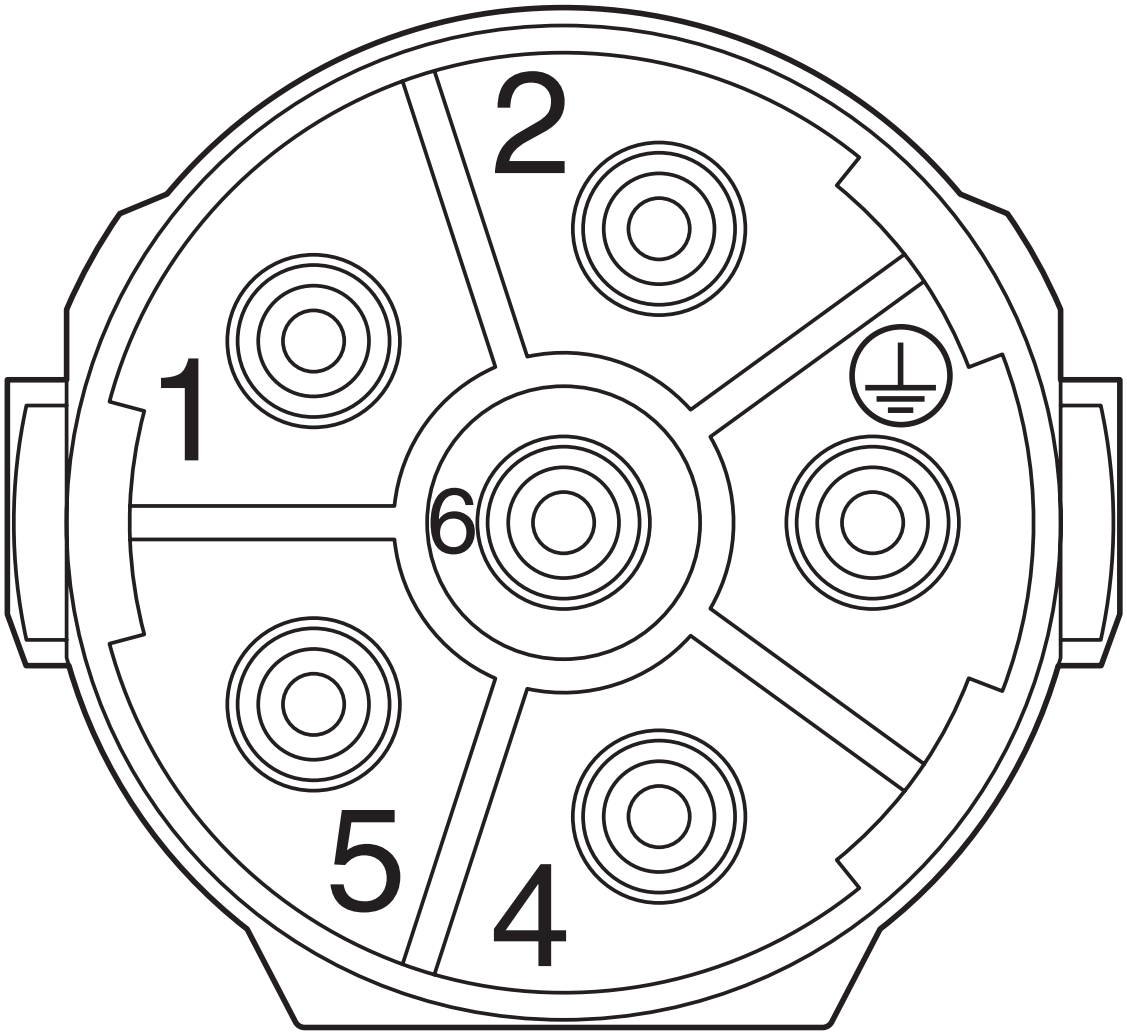
Environmental and real-life conditions

Ambient conditions

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

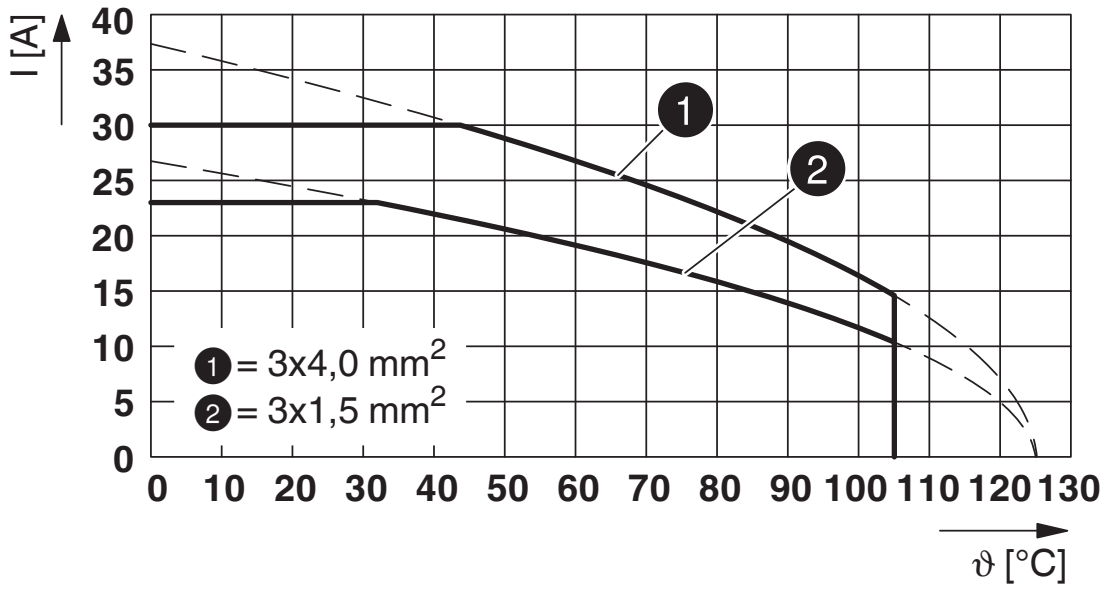
Drawings

Schematic diagram



Connector pin assignment

Diagram



I = current strength, ϑ = ambient temperature, 3 x 30 A (curve 1), 3 x 24 A (curve 2)

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628881

UL Listed
Approval ID: E468743

cUL Listed
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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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