M23-7ES198A8LDL - Cable connector

1628801

https://www.phoenixcontact.com/us/products/1628801

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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 long, shielded: yes, Screw locking mechanism, No. of pos.: 4+3+PE, contact connection type: Socket, Crimp connection, cable diameter range: 7.5 mm ... 17 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	1628801
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB30
Product key	ABRBBA
GTIN	4055626618890
Weight per piece (including packing)	162.8 g
Weight per piece (excluding packing)	147.482 g
Customs tariff number	85366990
Country of origin	DE

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: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.

Product properties

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

Connector

Connection 1

Head design	Socket

Insulating body

Coding	N
Material (Insulating body)	PA 6.6
Flammability rating according to UL 94	V0
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
Application	Power
Number of positions	8
Connection profile	4+3+PE
Installation height	3000 m
Number (Contact group 1)	4
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
Number (Contact group 2)	4
Contact diameter (Contact group 2)	1 mm
Litz wires Max. cross section (Contact group 2)	1 mm²
Rated current Contact (Contact group 2)	9 A (for max. connection cross section)
Rated voltage Contact (Contact group 2)	250 V

Rated surge voltage	4 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Cable connector housing
Thread type	M23
Design	straight long
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 ... 17 mm (Universal gasket)
Seal material	FKM

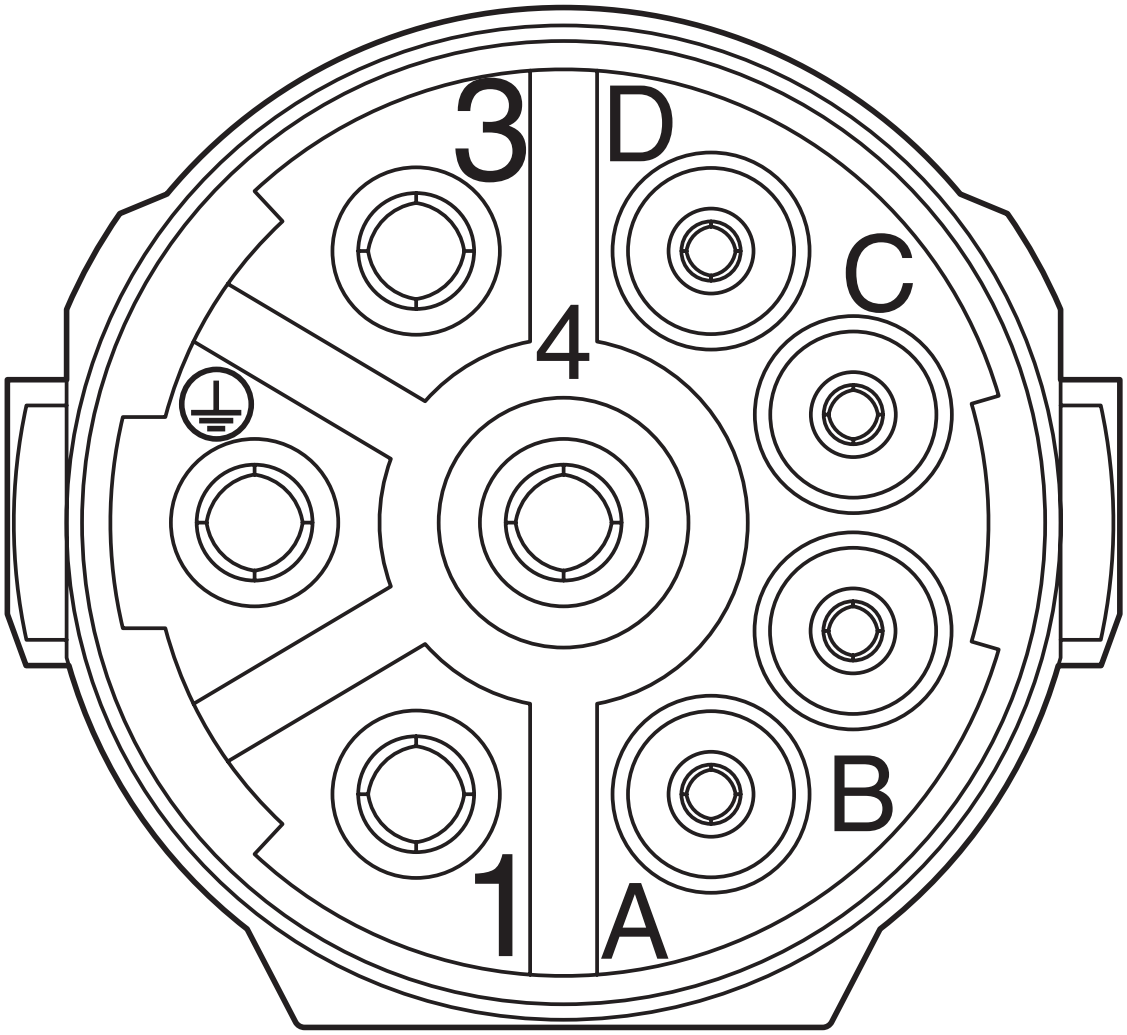
Environmental and real-life conditions

Ambient conditions

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

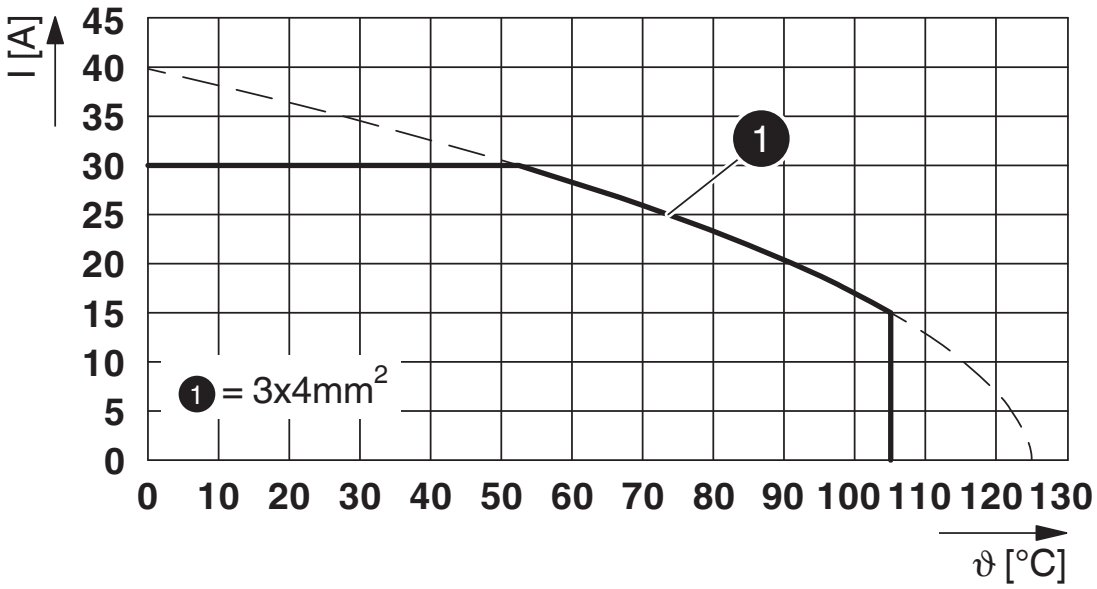
Drawings

Schematic diagram



Connector pin assignment

Diagram



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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1628801

UL Listed
Approval ID: E468743

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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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