# M23-7ES198A8LDLS - Cable connector

1628791

https://www.phoenixcontact.com/us/products/1628791

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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, ONECLICK fast locking system, 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
- 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 | 1628791 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB30 |
| Product key | ABRBBB |
| GTIN | 4055626617794 |
| Weight per piece (including packing) | 158 g |
| Weight per piece (excluding packing) | 144.035 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. |

### 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 | 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 | 7.5 mm ... 17 mm (Universal gasket) |
| Seal material | FKM |

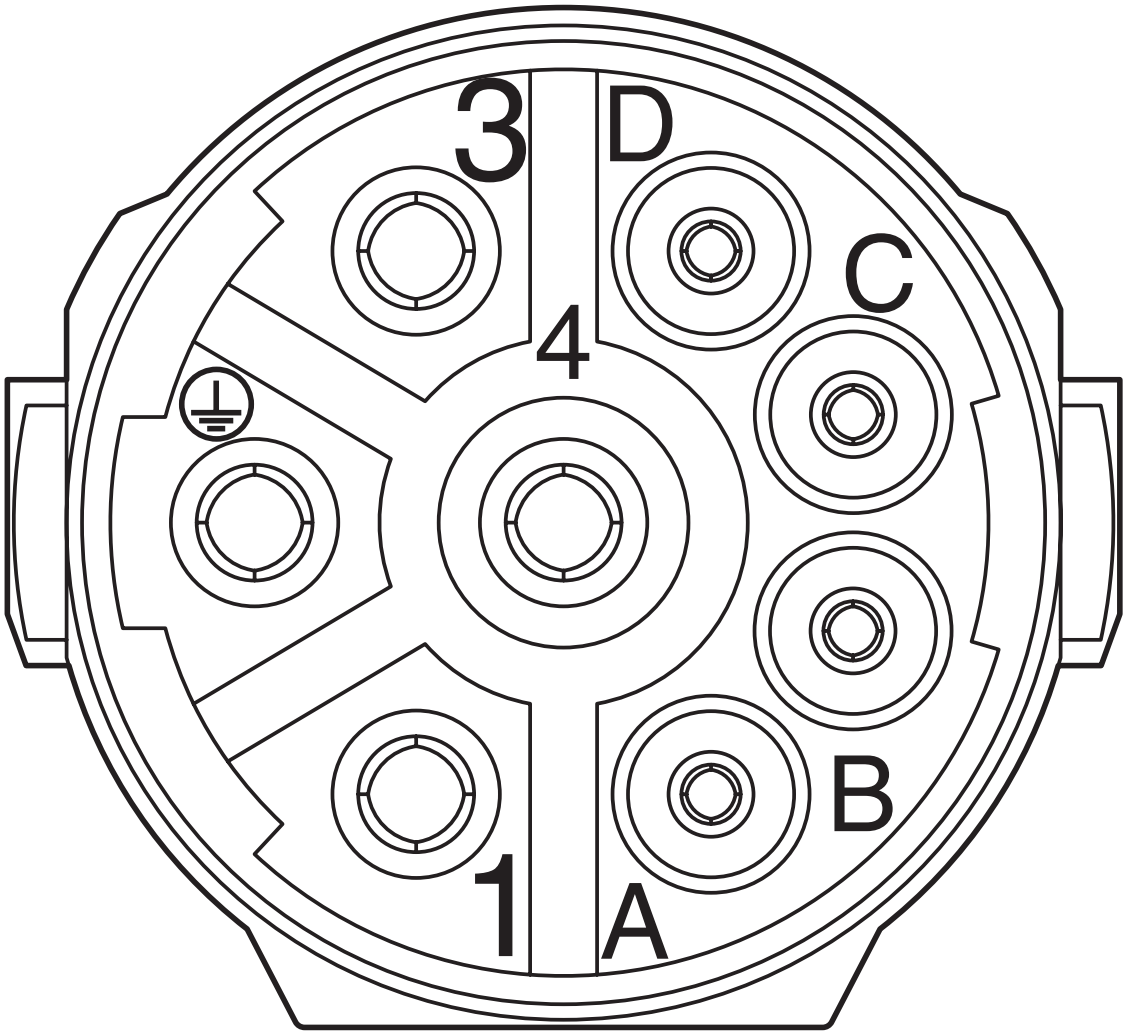
## Environmental and real-life conditions

Ambient conditions

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

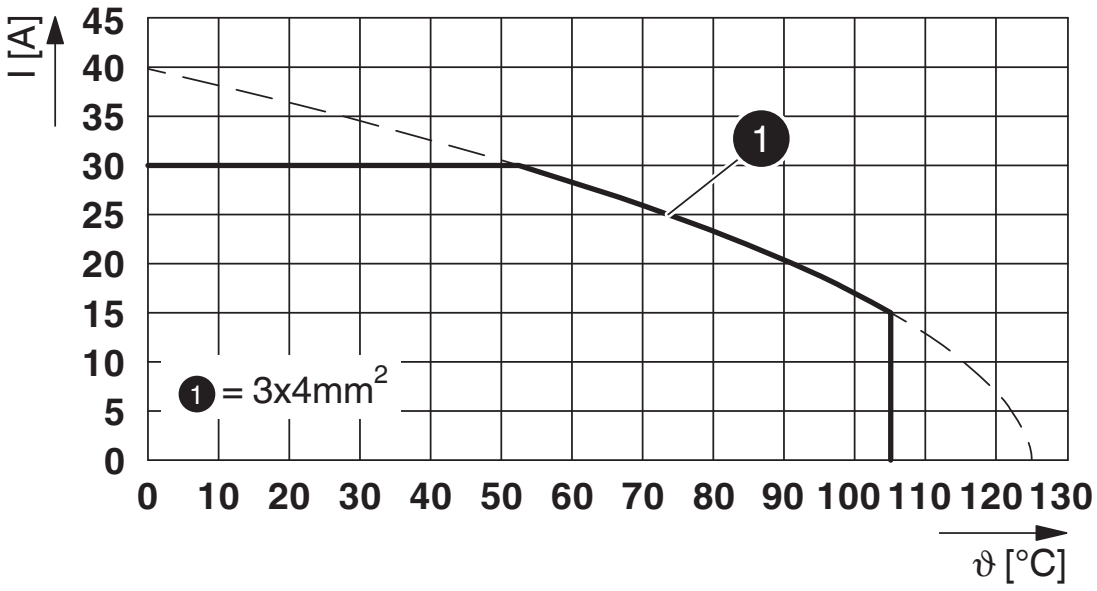
## Drawings

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/1628791

**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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