# M23-17P1N8A9002S - Coupler connector

1629107

https://www.phoenixcontact.com/us/products/1629107

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



M23, Coupler connector, series: M23 PRO, straight, shielded: yes, for standard and ONECLICK fast locking system, No. of pos.: 17, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 4 mm ... 8.5 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
- Easy, cost-effective cable assembly: uniform shielding of M17 to M40

## Commercial data

| | |
|---|---|
| Item number | 1629107 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB30 |
| Product key | ABRABG |
| GTIN | 4055626762548 |
| Weight per piece (including packing) | 122.8 g |
| Weight per piece (excluding packing) | 122 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Order 17 x 1 mm crimp contacts 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 |

| | |
|---|---|
| | warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12). |

## Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |

## Connector

### Insulating body

| | |
|---|---|
| Coding | N |
| Insulation body material | PA 6.6 |
| Insertion/withdrawal cycles | 100 |
| Connection method | Crimp connection |
| Contact switching type | Pin |
| Application | Signal |
| Number of positions | 17 |
| Direction of rotation | Standard |
| Connection profile | 17 |
| Contact diameter Signal contacts | 1 mm |
| Litz wire cross-section Signal contacts min. | 0.08 mm² |
| Litz wire cross-section Signal contacts max. | 1 mm² |
| Nominal current per signal contact | 8 A |
| Note | for max. connection cross section |
| Rated voltage Signal contact | 125 V |
| Rated surge voltage | 2 kV |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Installation height | 2000 m |

### Housing

| | |
|---|---|
| Housing material | GD-Zn |
| Type of locking | for standard and ONECLICK fast locking system |
| Pg screw connection | none |
| Degree of protection (plugged in) | IP66 / IP68 (2 m / 24 h) |
| Thread type | M23 |

### Seal

| | |
|---|---|
| External cable diameter | 4 mm ... 8.5 mm |
| Seal material | FKM |

## Environmental and real-life conditions

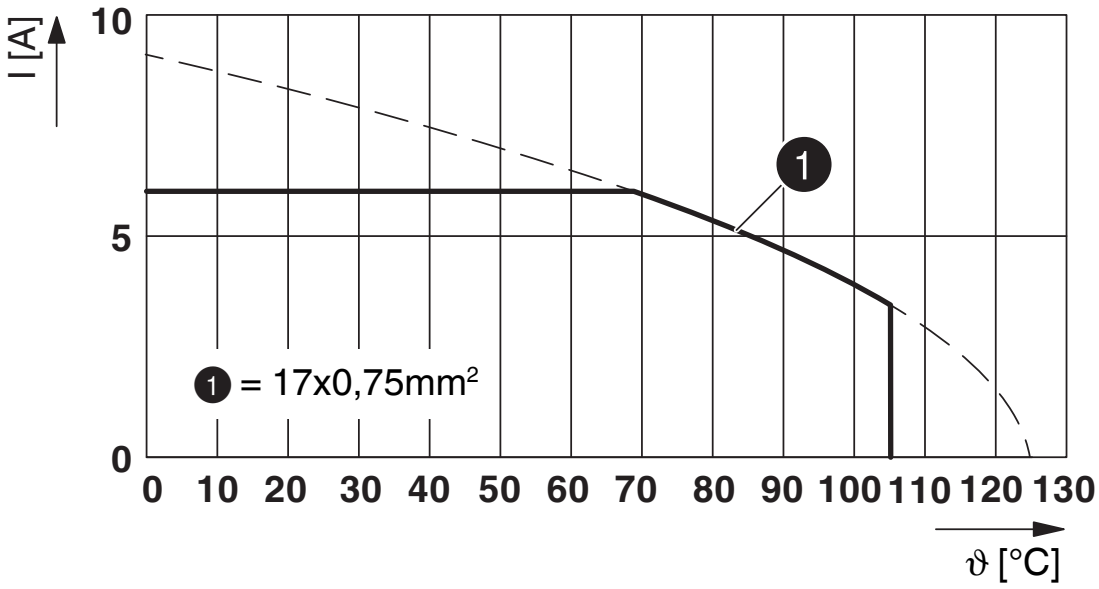
### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 105 °C (see to derating) |
| Altitude | 2000 m |

| | |
|---|---|
| Permanent temperature | 125 °C (DIN EN 60512-9-2 / 1000 h) |

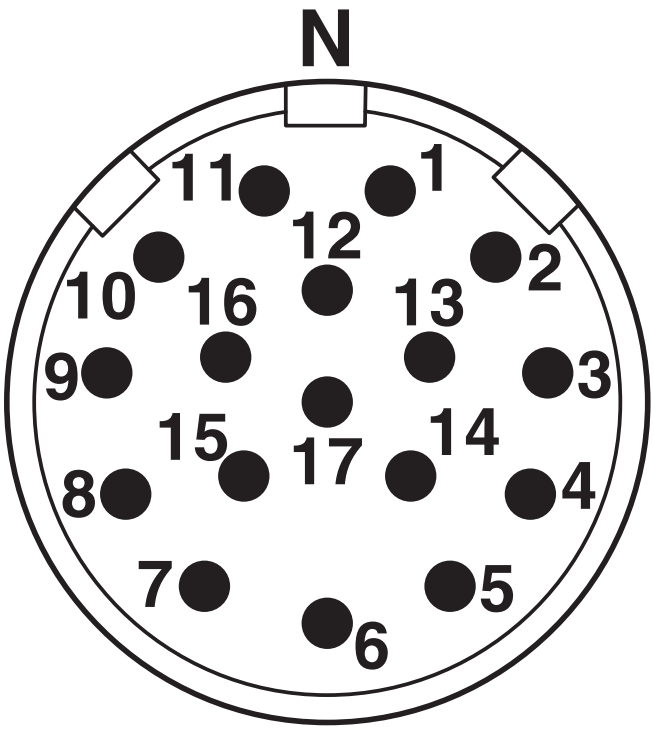
## Drawings

Diagram




I = current strength, ϑ = ambient temperature, 17x 6 A

Schematic diagram




Connector pin assignment

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1629107

**cUL Recognized**
Approval ID: E335019-20141210

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 150 V | 3.5 A | 20 - 20 | - |

**UL Recognized**
Approval ID: E335019-20141210

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 150 V | 4.5 A | 20 - 20 | - |

**cULus Recognized**

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | 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% |

Phoenix Contact 2025 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com