# ST-8ES1N8AH100S - Device connector rear mounting

1613629

https://www.phoenixcontact.com/us/products/1613629

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.

CRIMP



The figure shows the 8-pos. (7+PE) product version

Device connector rear mounting, application: Power, straight, for standard and SPEEDCON interlock, M17, number of positions: 5+3+PE, contact connection type: Socket, Axial O-ring, shielded: yes, number of positions: 9, connection method: Crimp connection, series: ST, This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives.

## Your advantages

- Application-specific panel mounting optionally with thread or anti-rotation protection and lock nut
- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly

## Commercial data

| | |
|---|---|
| Item number | 1613629 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB32 |
| Product key | ABRBER |
| GTIN | 4046356442381 |
| Weight per piece (including packing) | 39.7 g |
| Weight per piece (excluding packing) | 27.31 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Order crimp contacts 5 x 0.6 mm, 4 x Ø 1 mm separately |

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. |

### Mounting

| | |
|---|---|
| Mounting type | Rear mounting (M20 x 1,5) |

### Product properties

| | |
|---|---|
| Product type | Circular connectors (device side) |
| Series | ST |
| Application | Power |
| Number of positions | 9 |
| Connection profile | 5+3+PE |
| Shielded | yes |
| Coding | N |
| Thread type | M17 |

### Material specifications

| | |
|---|---|
| Material Housing | GD-Zn |
| Material Rotating parts | CuZn |
| Material Housing surface | Ni |
| Seal material | FPM |

### Electrical properties

Contact: Contact group 1

| | |
|---|---|
| Contact diameter | 1 mm |
| Nominal current $I_N$ | 14 A |
| Nominal voltage $U_N$ | 630 V |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Rated surge voltage | 6 kV |

Contact: Contact group 2

| | |
|---|---|
| Contact diameter | 0.6 mm |
| Nominal current $I_N$ | 3.6 A |
| Nominal voltage $U_N$ | 60 V |
| Overvoltage category | III |
| Degree of pollution | 3 |

| | |
|---|---|
| Rated surge voltage | 1.5 kV |

## Connection data

Conductor connection

| | |
|---|---|
| Connection method | Crimp connection |
| Contact connection type | Socket |

## Connector

| | |
|---|---|
| Type | straight |
| Direction of rotation | Standard |

Connection 1

| | |
|---|---|
| Head design | Socket |

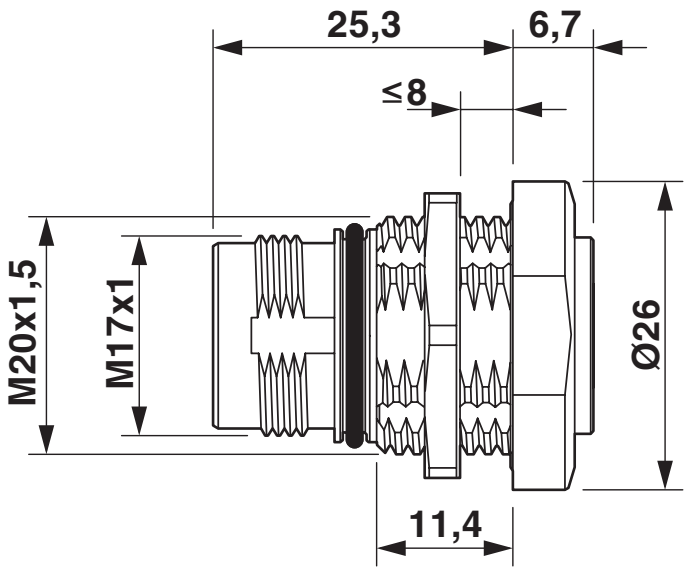
## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP67 |
| Ambient temperature (operation) | -40 °C ... 125 °C |
| Altitude | 2000 m |

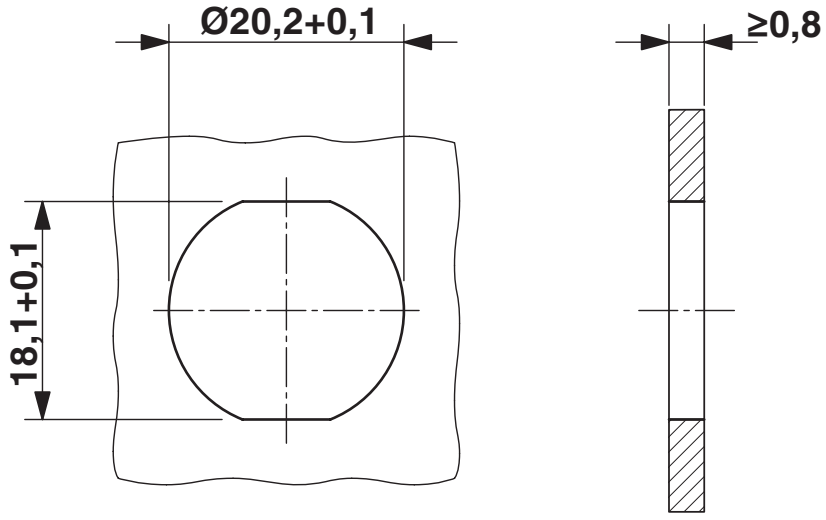
## Drawings

Dimensional drawing



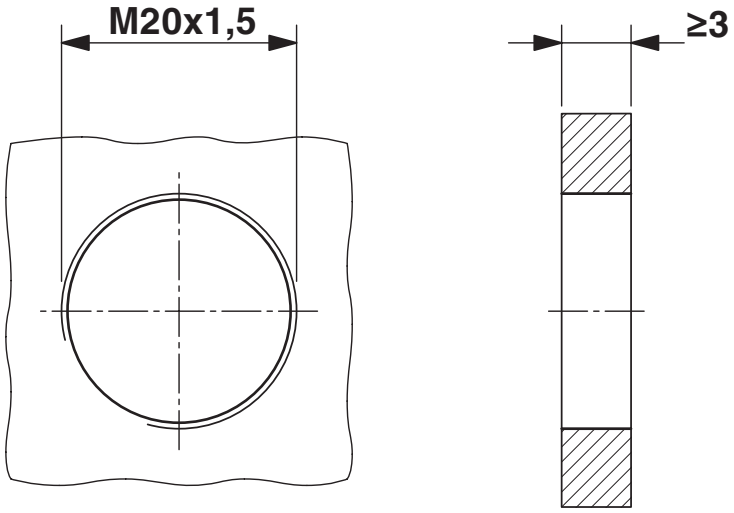

Dimensional drawing

Dimensional drawing



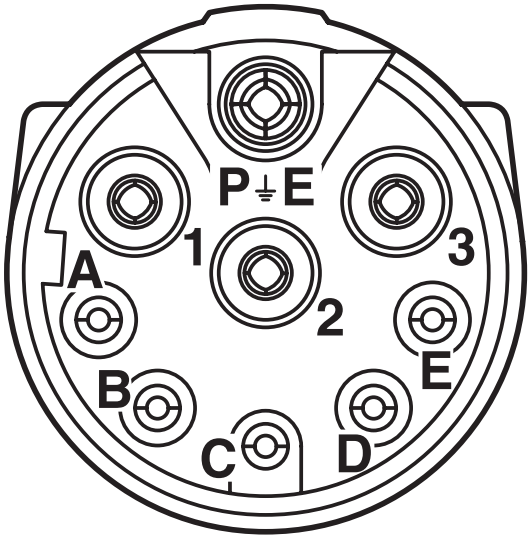

Installation dimensions: mounting with anti-rotation protection and locking nut

Dimensional drawing



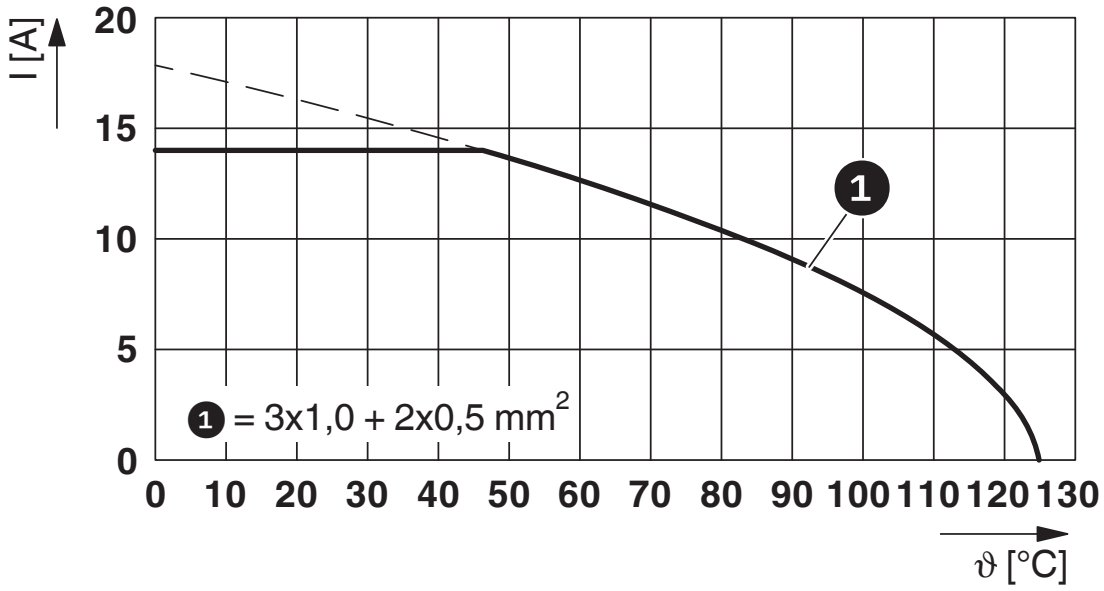

Installation dimensions: mounting with thread

Schematic diagram




Connector pin assignment

Diagram




I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1613629

**UL Recognized**
Approval ID: E153698-20140124

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 3.5 A | - | - |
| Signal | 60 V | 3.5 A | - | - |

**cUL Recognized**
Approval ID: E153698-20140124

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 3.5 A | - | - |
| Signal | 60 V | 3.5 A | - | - |

**cUL Recognized**
Approval ID: E335019-20111129

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 3.5 A | - | - |
| Signal | 60 V | 3.5 A | - | - |

**UL Recognized**
Approval ID: E335019-20111129

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 3.5 A | - | - |
| Signal | 60 V | 3.5 A | - | - |

**UL Listed**
Approval ID: E468743-20210825

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 10 A | 18 | 18 |
| Signal | 60 V | 2 A | 20 | 20 |

**cUL Listed**
Approval ID: E468743-20210825

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Power | 600 V | 8 A | 18 | - |
| Signal | 60 V | 2 A | 20 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC003569 |

### 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 2026 © - 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