# ST-6ES1N8A9K03S - Coupler connector

1618709

https://www.phoenixcontact.com/us/products/1618709

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CRIMP



The figure shows the 4-position version

Coupler connector, application: Power, straight, for standard and SPEEDCON interlock, M17, number of positions: 6+PE, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 5 mm ... 9.2 mm, number of positions: 7, connection method: Crimp connection, series: ST

## Your advantages

- Reduced size: ideal for compact devices
- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly
- Flexible use: reliably connect various cable diameters

## Commercial data

| | |
|---|---|
| Item number | 1618709 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB38 |
| Product key | ABRBEG |
| GTIN | 4046356811101 |
| Weight per piece (including packing) | 32.7 g |
| Weight per piece (excluding packing) | 30.895 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Order crimp contacts 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. |
| | • The products are suitable for applications in plant, controller, and electrical device engineering. |
| | • Assembled products may not be manipulated or improperly opened. |
| | • When using the product in direct connection with third-party manufacturers, the user is responsible. |
| | • Ensure that the protective or functional ground has been properly connected. |
| | • Only use tools recommended by Phoenix Contact |
| | • Operate the connector only when it is fully plugged in and interlocked. |
| | • Observe the minimum bending radius of the cable. Lay the cable without twisting it. |

### Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |
| Series | ST |
| Application | Power |
| Number of positions | 7 |
| Connection profile | 6+PE |
| Shielded | yes |
| Coding | N |
| Thread type | M17 |

### Material specifications

| | |
|---|---|
| Seal material | FPM |
| Housing material | Metal |

### Connection data

Conductor connection

| | |
|---|---|
| Connection method | Crimp connection |

### 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 | 1 mm |

## Connector

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

Connection 1

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

## Cable/line

| | |
|---|---|
| External cable diameter | 5 mm ... 9.2 mm |

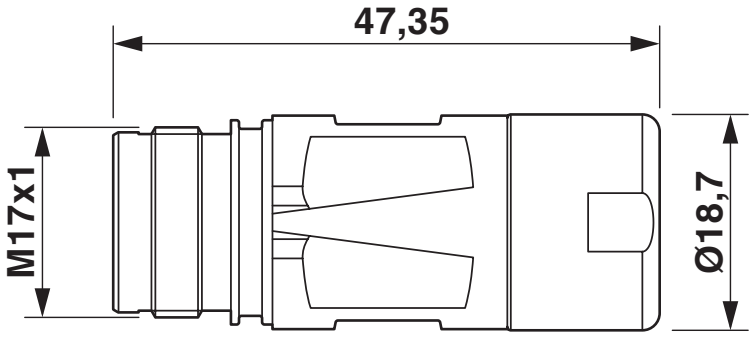
## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP67 |
| Ambient temperature (operation) | -40 °C ... 125 °C |
| Altitude | 3000 m |

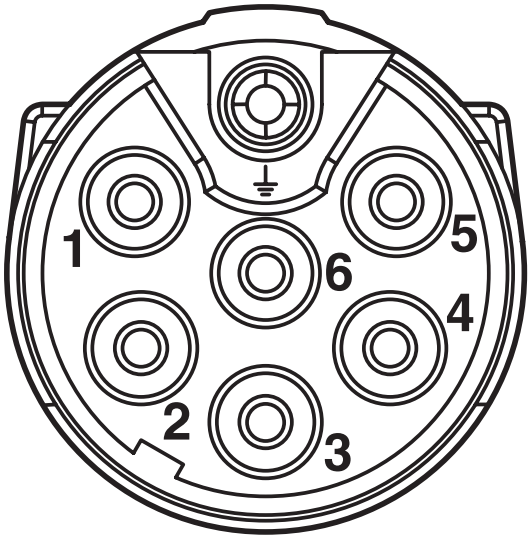
## Drawings

Dimensional drawing



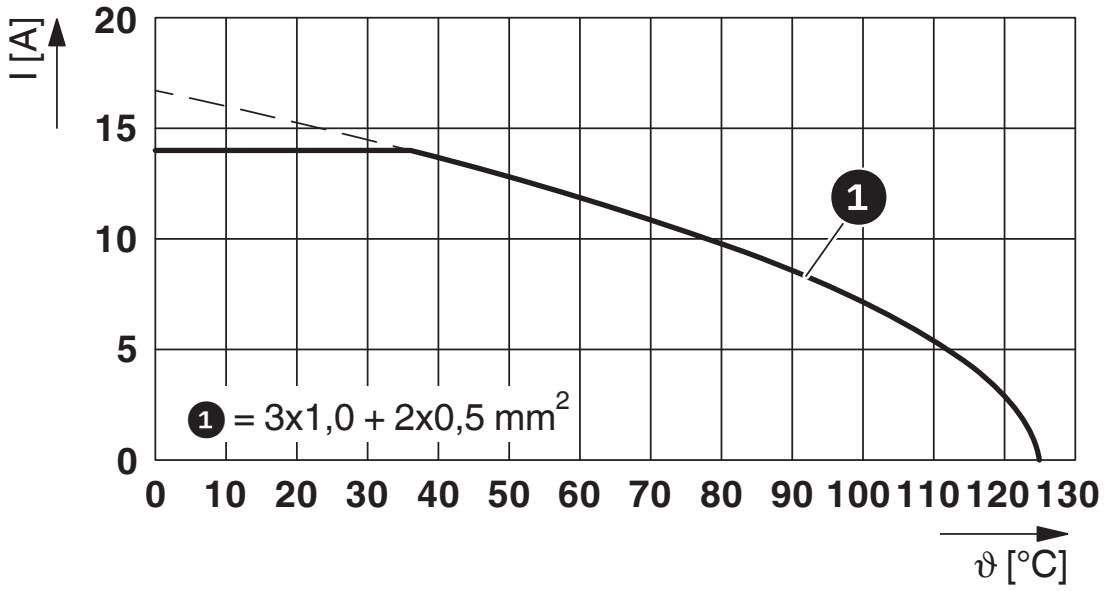

Technical drawings can be found under Downloads

Schematic diagram




Connector pin assignment

Diagram




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

## 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 |
| Exemption | 6(c) |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | e73ea108-9bd7-4173-acdf-883502eba3a0 |


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