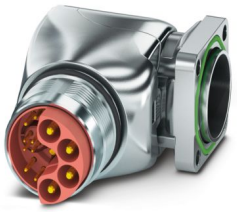
# SH-8EPS48AAC00S - Device connector front mounting

1621562

https://www.phoenixcontact.com/us/products/1621562

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Data element is black

M23, Device connector front mounting, application: Hybrid, series: SH, angled rotatable, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, contact connection type: Pin, Crimp connection, Axial O-ring, flange dimensions: 28 mm x 28 mm

## Your advantages

- Easy connection, thanks to infinitely adjustable cable outlet direction up to 310°
- All housing can be fitted with pin or socket contacts
- A total of eight contacts are available for signal transmission
- Safe use in the field, thanks to high degree of protection
- Consistent EMC protection for reliable connection solutions in the industrial environment

## Commercial data

| | |
|---|---|
| Item number | 1621562 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB33 |
| Product key | ABRCDM |
| GTIN | 4046356937108 |
| Weight per piece (including packing) | 144.1 g |
| Weight per piece (excluding packing) | 127.258 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

# Technical data

## Notes

| | |
|---|---|
| Order information: | Crimp contacts, 8 x Ø 1 mm, 5 x Ø 2 mm, order 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. |

## Product properties

| | |
|---|---|
| Product type | Circular connectors (device side) |
| Application | Hybrid |

## Dimensions

Housing

| | |
|---|---|
| Flange dimensions | 28 mm x 28 mm |

## Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |

## Connector

Insulating body

| | |
|---|---|
| Note | Order information: Crimp contacts, 8 x Ø 1 mm, 5 x Ø 2 mm, order separately |
| Protection against electric shock | IEC 61984 and VDE 0623 |
| Material (Insulating body) | PA 6.6 |
| Insertion/withdrawal cycles | 100 |
| Connection method | Crimp connection |
| Contact switching type | Pin |
| Application | Hybrid |
| Number of positions | 13 |
| Connection profile | 8+4+PE |
| Installation height | 2000 m |
| Number (Power contacts) | 5 |
| Diameter (External cable diameter / Power contacts) | max. 4.15 mm (Outer cable sheath) |
| Contact diameter (Power contacts) | 2 mm |
| Litz wires Min. cross section (Power contacts) | 0.25 mm² |
| Litz wires Max. cross section (Power contacts) | 4 mm² |
| Rated current Contact (Power contacts) | 30 A (for max. connection cross section) |
| Rated voltage Contact (Power contacts) | 630 V AC (Overvoltage category III/3) |
| | 850 V DC (Overvoltage category II/3) |
| Rated surge voltage | 6 kV |

| | |
|---|---|
| Degree of pollution | 3 |
| Number (Signal contacts) | 8 |
| Diameter (External cable diameter / Signal contacts) | max. 2.1 mm (Outer cable sheath) |
| Contact diameter (Signal contacts) | 1 mm |
| Litz wires Max. cross section (Signal contacts) | 1 mm² |
| Rated current Contact (Signal contacts) | 8 A (for max. connection cross section) |
| Rated voltage Contact (Signal contacts) | 50 V AC/DC (Contact 1 ... 8) |
| Rated surge voltage | 1.5 kV |
| Overvoltage category | III |
| Degree of pollution | 3 |

Housing

| | |
|---|---|
| Note | The suitability for assembly must be checked when fully assigned with maximum wire cross sections. |
| Type | Flange housing |
| Thread type | M23 |
| Design | angled rotatable |
| Type of locking | for standard and SPEEDCON interlock |
| Pg screw connection | none |
| Mounting type | Front mounting/square flange (4x Ø 3.2 mm) |
| Flange dimensions | 28 mm x 28 mm |
| Housing material | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Material for screw connection | CuZn |
| Degree of protection (plugged in) | IP67 |
| | IP68 |
| | IP69K |
| Seal for the device | Axial O-ring |

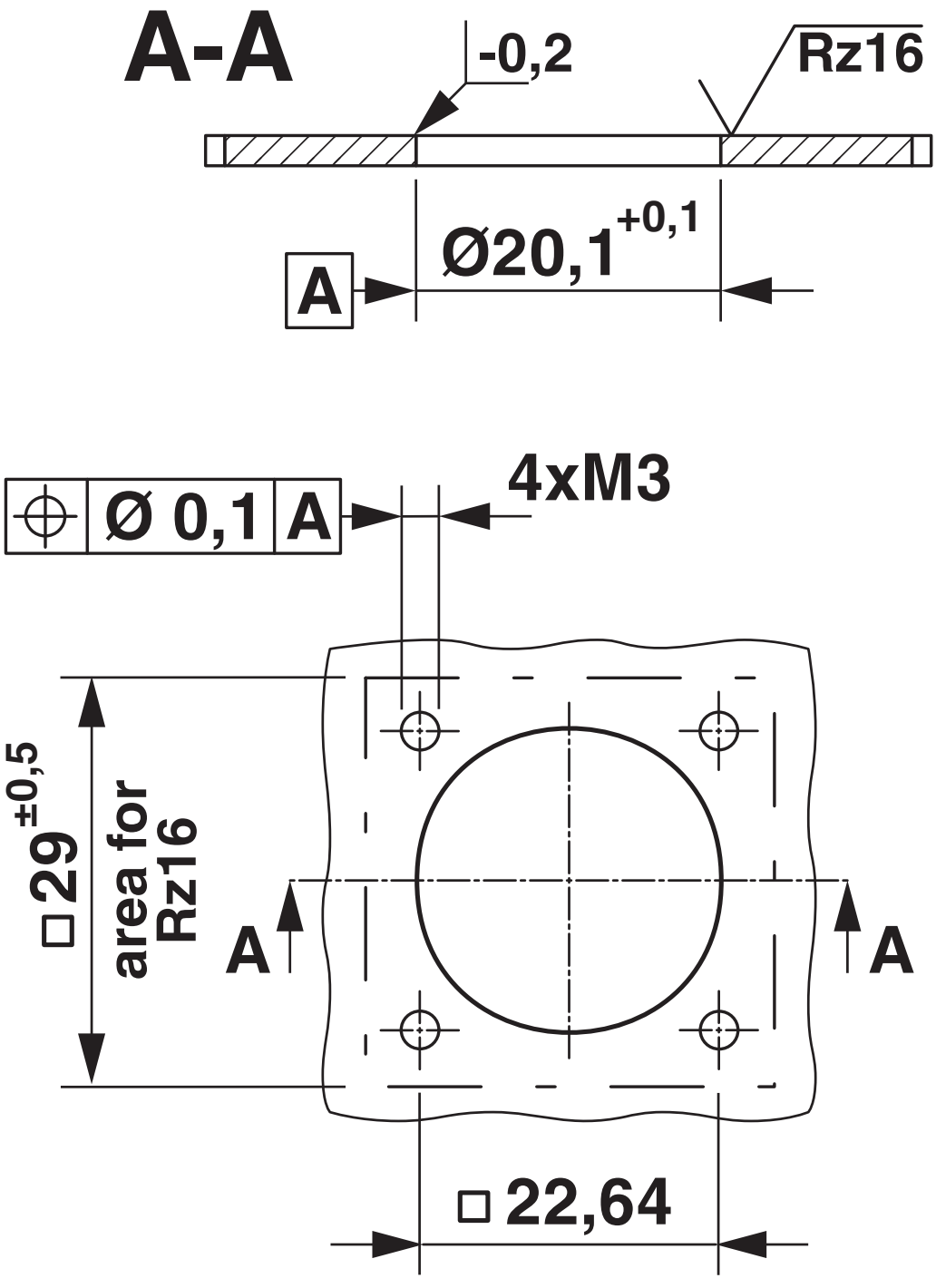
## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 115 °C (see derating curve) |

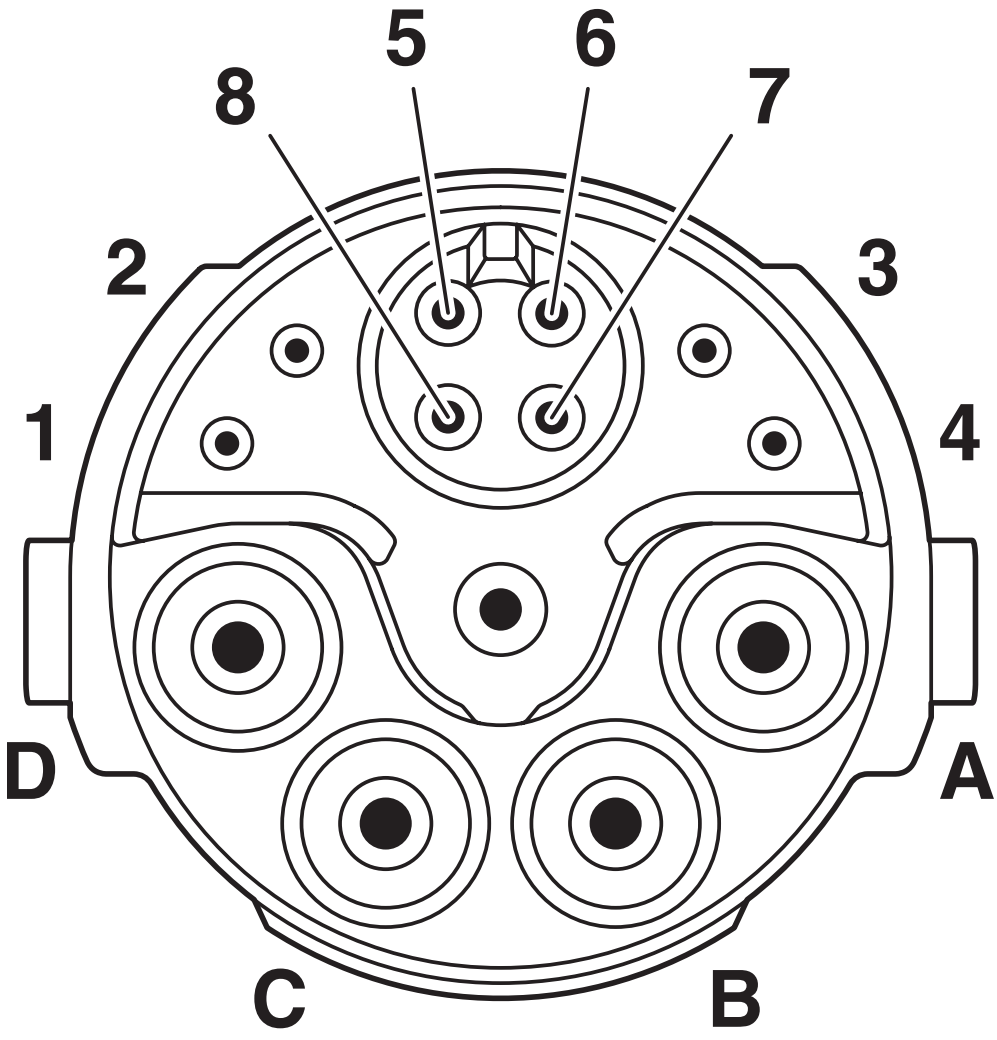
## Drawings

Dimensional drawing



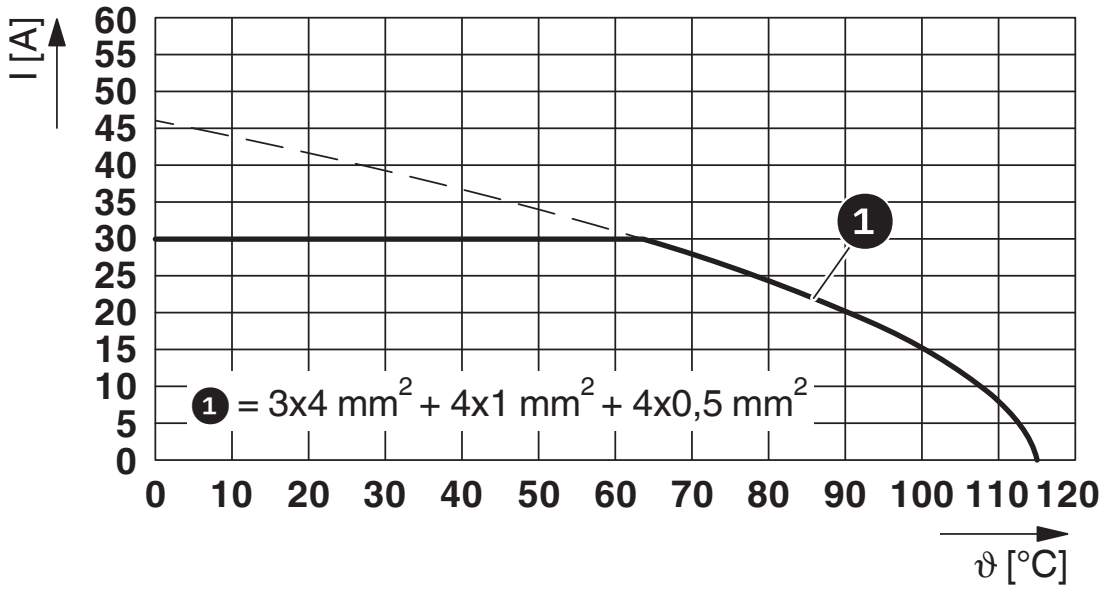

Installation dimensions

Schematic diagram



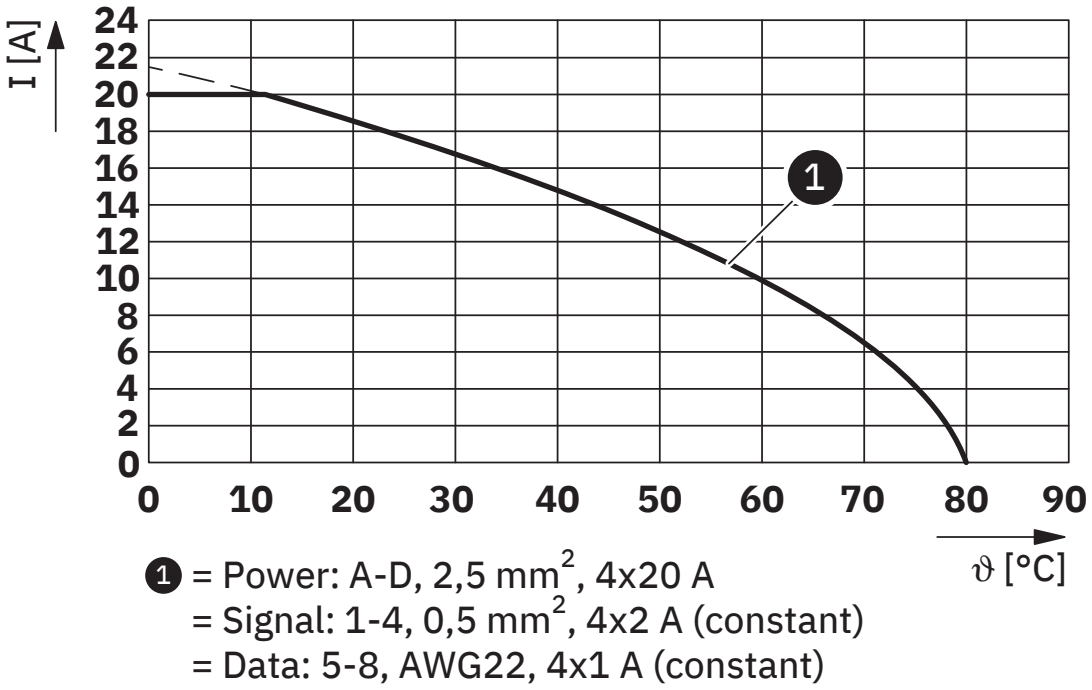

Pin assignment of pin, signal

Diagram



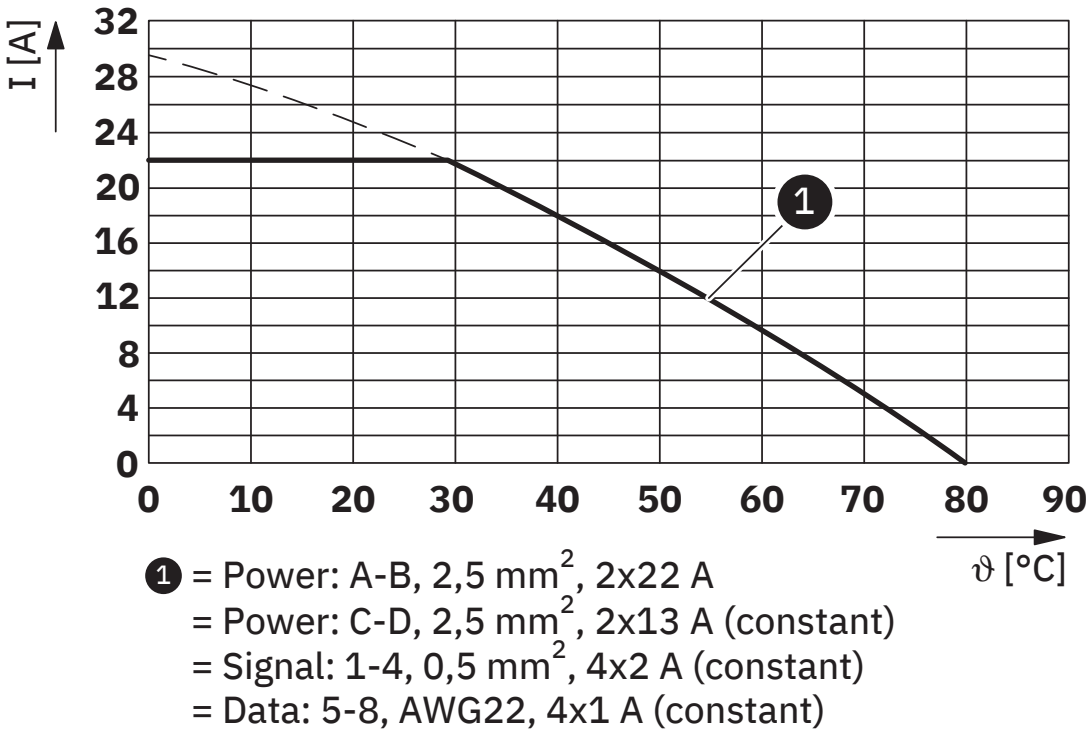

I = current strength, ϑ = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant

Diagram



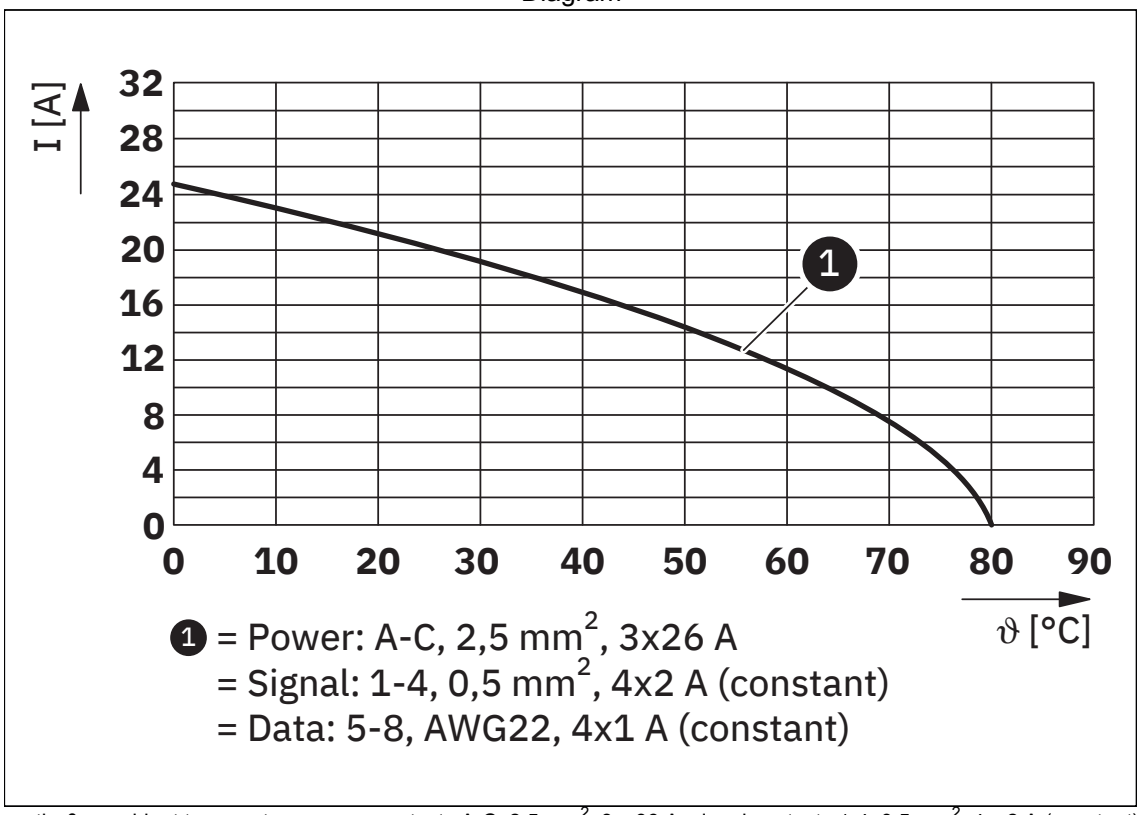

I = current strength, ϑ = ambient temperature, power contacts A-D: 2.5 mm², 4 x 20 A, signal contacts 1-4: 0.5 mm², 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

Diagram




I = current strength, ϑ = ambient temperature, power contacts A-B: 2.5 mm², 2 x 22 A, power contacts C-D: 2.5 mm², 2 x 13 A (constant), signal contacts 1-4: 0.5 mm², 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

Diagram




I = current strength, ϑ = ambient temperature, power contacts A-C: 2.5 mm$^2$, 3 x 36 A, signal contacts 1-4: 0.5 mm$^2$, 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1621562

**cUL Recognized**
Approval ID: E153698-20181206

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## 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% |


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