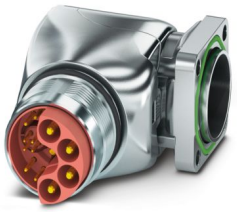
SH-8EPS48AAD00S - Device connector front mounting

1621566

https://www.phoenixcontact.com/us/products/1621566

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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: 26 mm x 26 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	1621566
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB33
Product key	ABRCDM
GTIN	4046356937146
Weight per piece (including packing)	139.2 g
Weight per piece (excluding packing)	122.438 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	26 mm x 26 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	26 mm x 26 mm
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Degree of protection (plugged in)	IP67
	IP68
	IP69K
Seal for the device	Axial O-ring

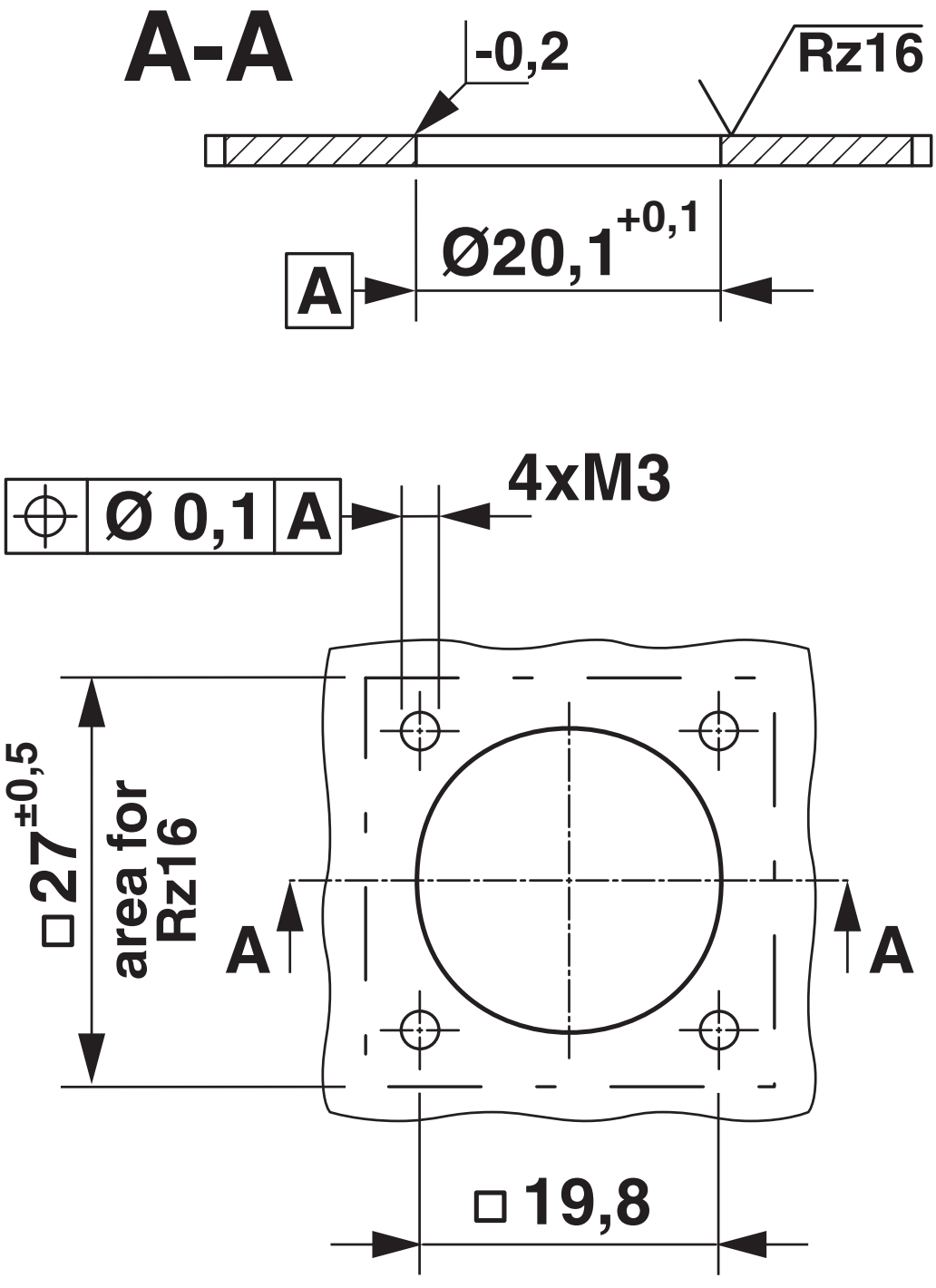
Environmental and real-life conditions

Ambient conditions

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

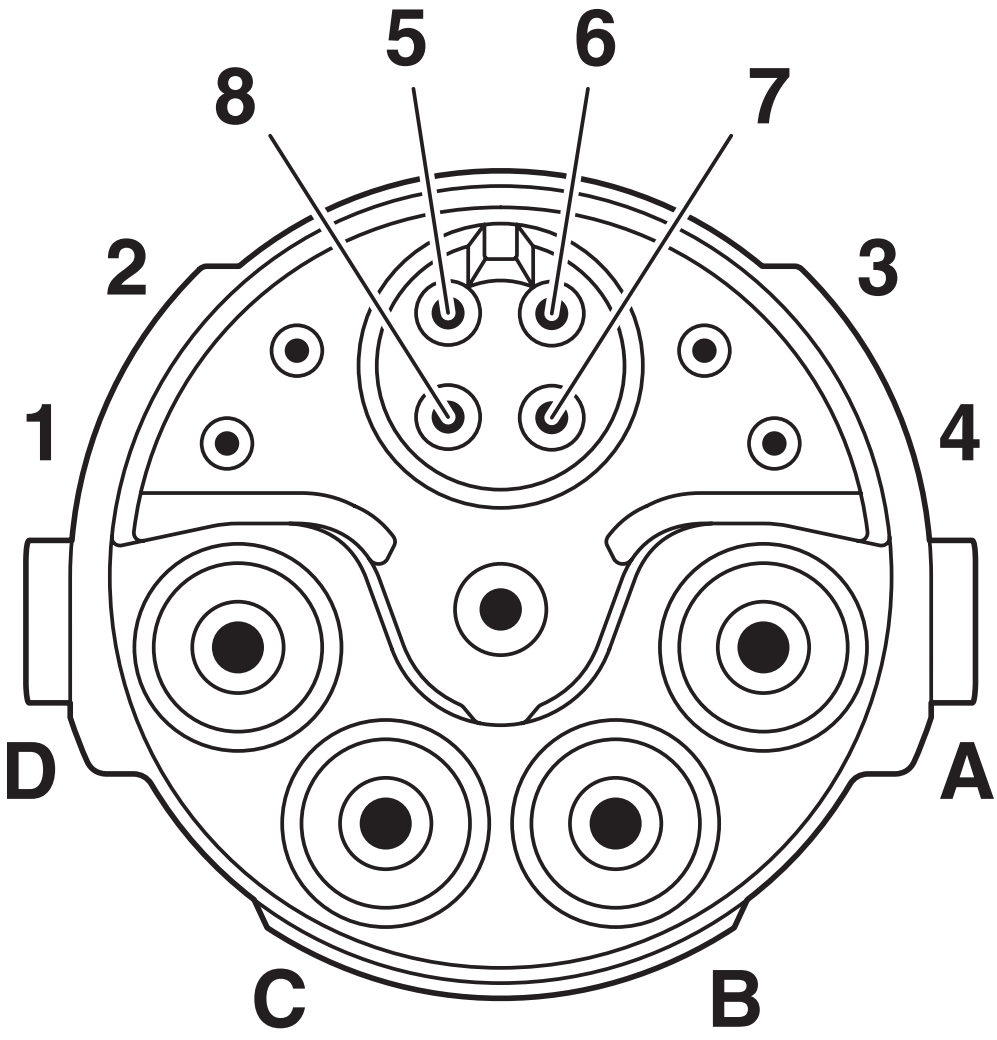
Drawings

Dimensional drawing



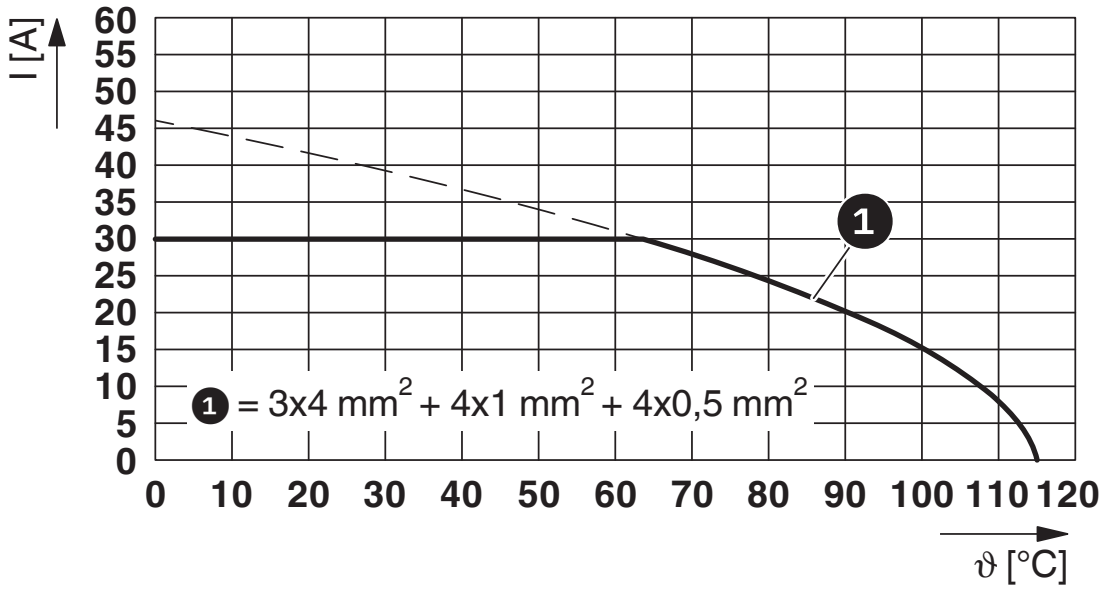
Installation dimensions

Schematic diagram



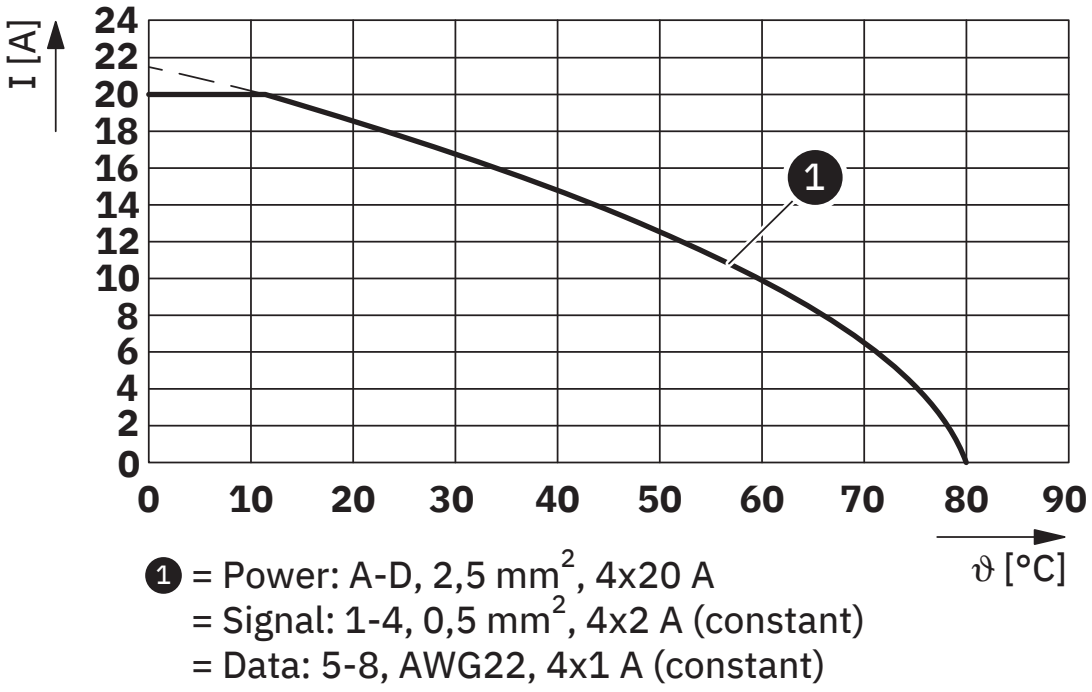
Pin assignment of pin, signal

Diagram



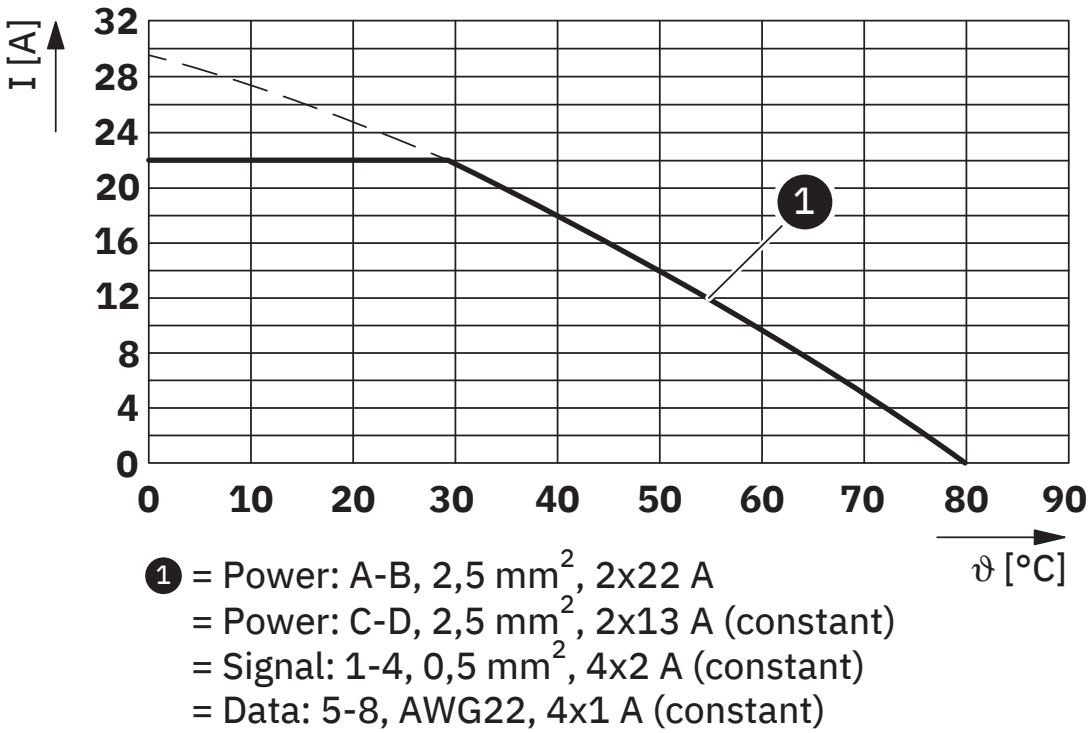
I = current strength, ϑ = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant

Diagram



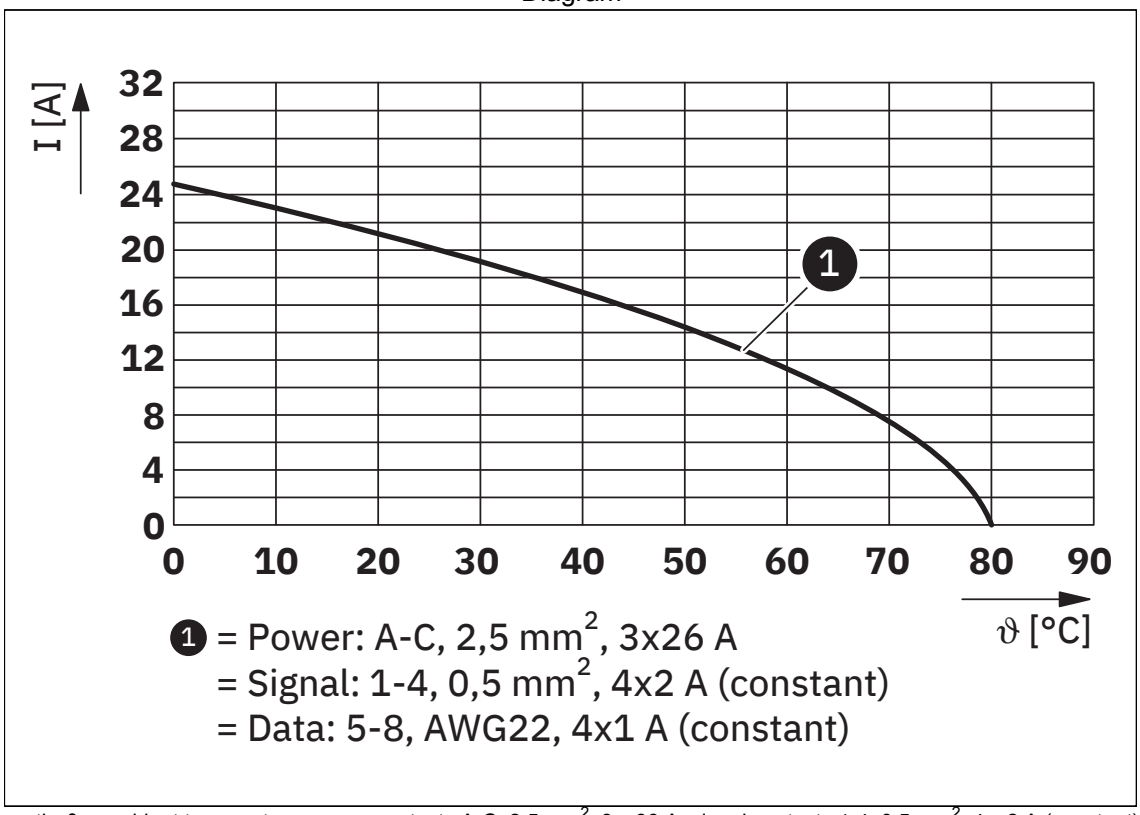
I = current strength, ϑ = ambient temperature, power contacts A-D: 2.5 mm², 4 x 20 A, signal contacts 1-4: 0.5 mm², 4 x 2 A (constant), data contacts 5-8: AWG22, 4 x 1 A (constant)

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/1621566

cUL Recognized
Approval ID: E153698-20181206

UL Recognized
Approval ID: E153698-20181206

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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