SH-8ESS48AWA00S - Device connector front mounting

1621568

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Data element is black

M23, Device connector front mounting, application: Hybrid, series: SH, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, contact connection type: Socket, Crimp connection, Axial O-ring, flange dimensions: 26 mm x 26 mm

Your advantages

- 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	1621568
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB33
Product key	ABRCDL
GTIN	4046356937160
Weight per piece (including packing)	52.7 g
Weight per piece (excluding packing)	52.7 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

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	Socket
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 (Contact 1 ... 8)
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Flange housing
Thread type	M23
Design	straight
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)
Material for screw connection	CuZn
Degree of protection (plugged in)	IP67
	IP68
Seal for the device	Axial O-ring

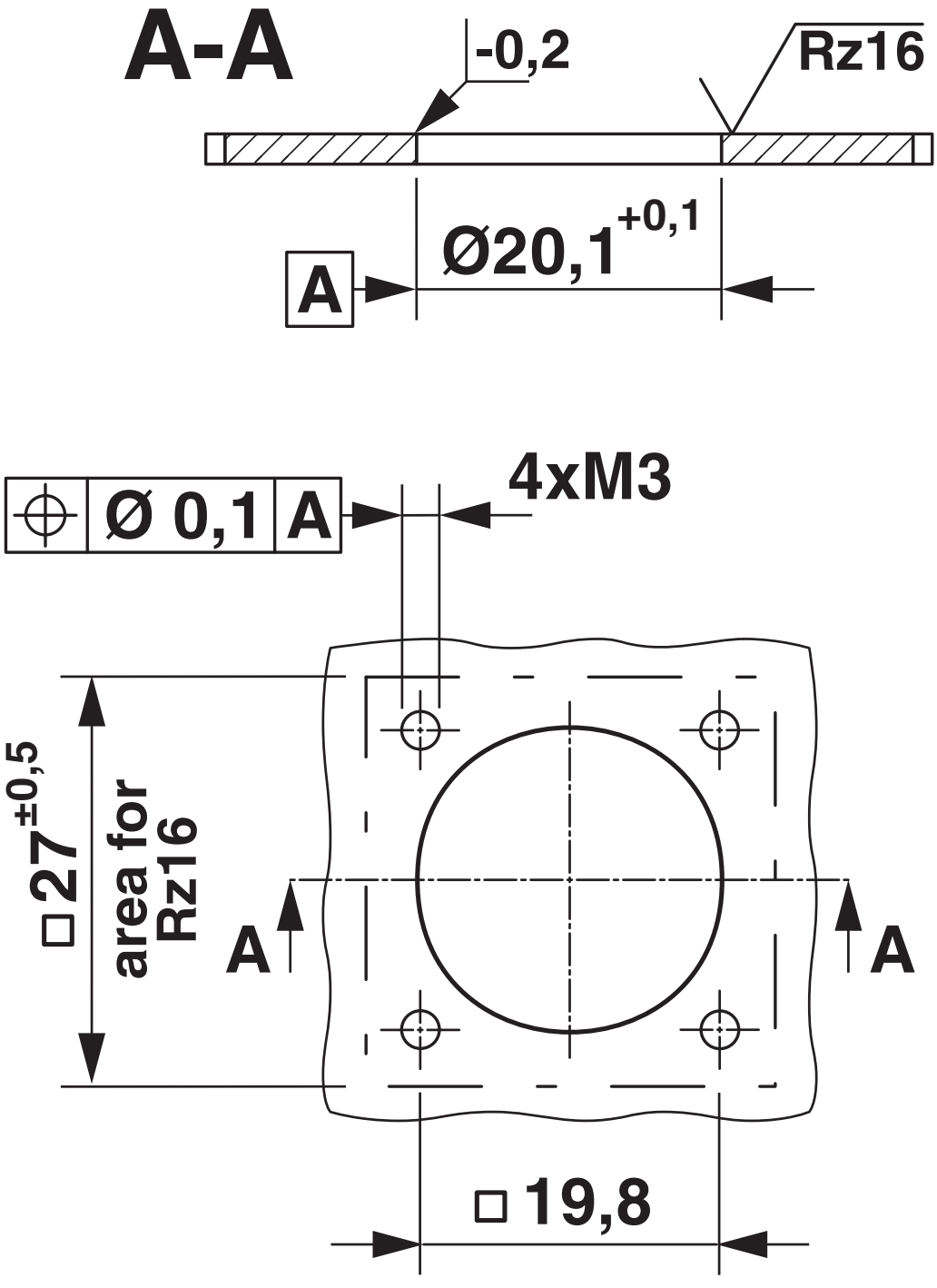
Environmental and real-life conditions

Ambient conditions

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

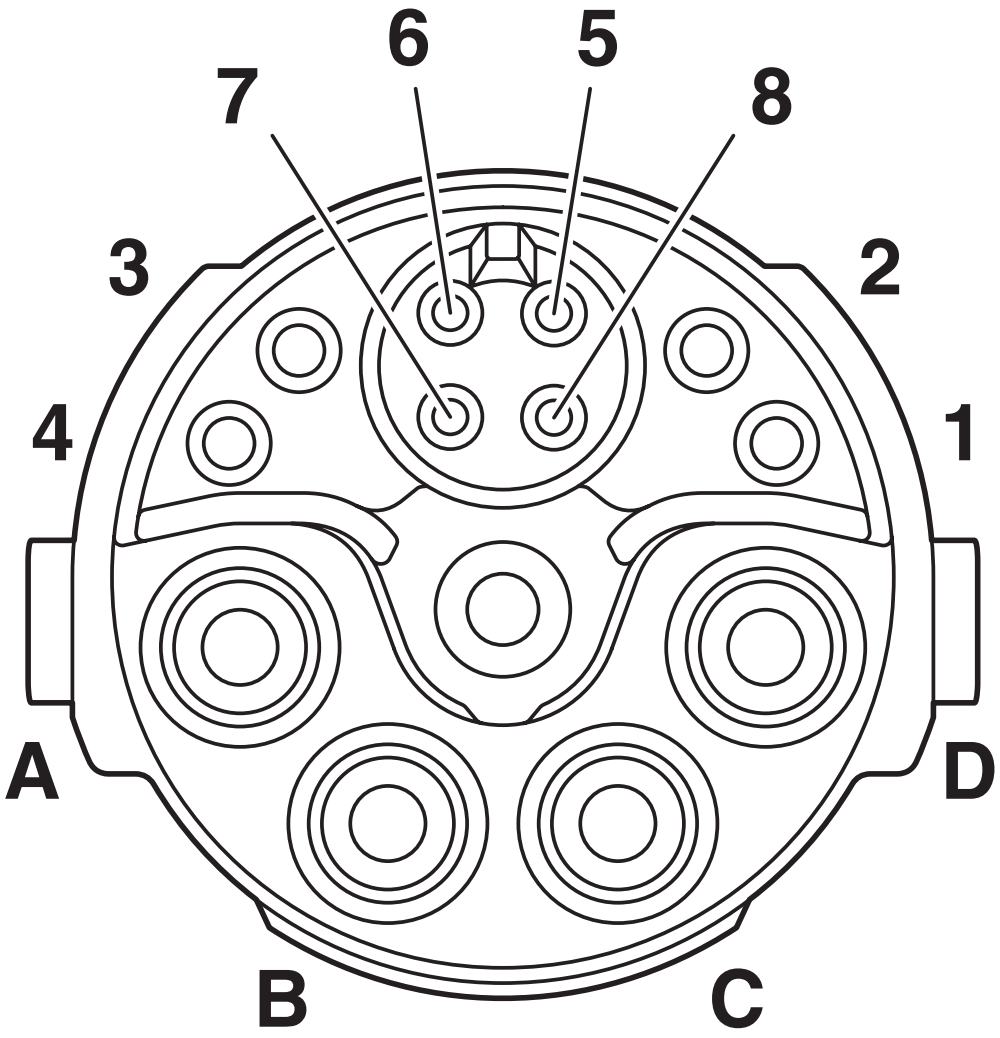
Drawings

Dimensional drawing



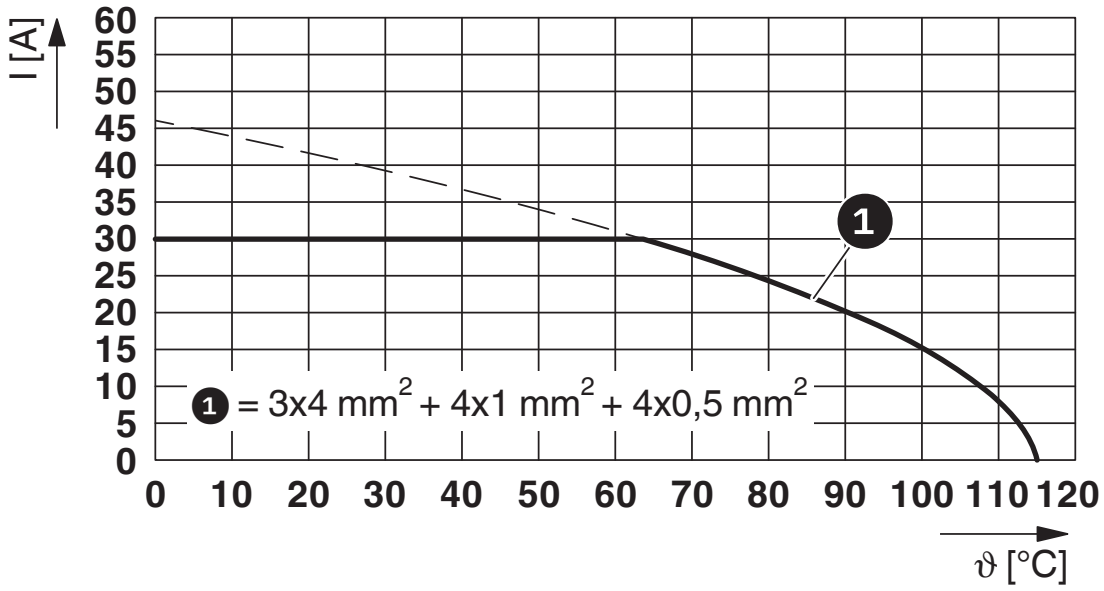
Installation dimensions

Schematic diagram



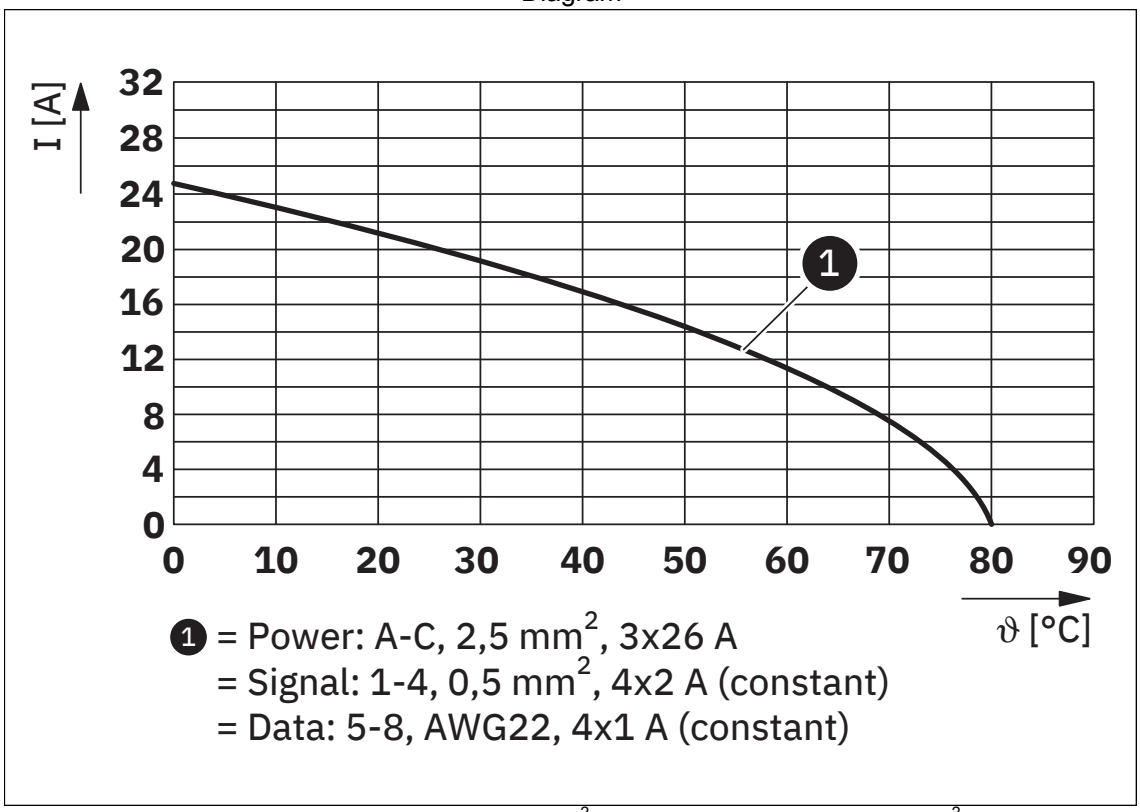
Socket pin assignment, signal

Diagram



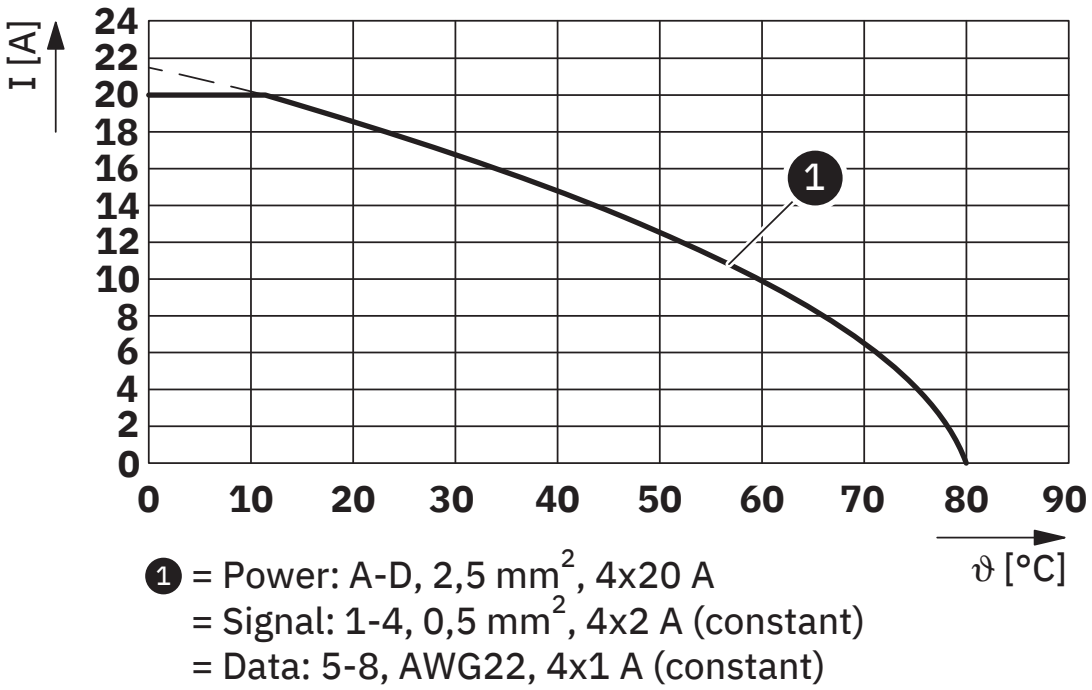
I = current strength, ϑ = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant

Diagram



I = current strength, ϑ = ambient temperature, power contacts A-C: 2.5 mm², 3 x 36 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-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)

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1621568

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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