SH-8EPS48AWA00S - Device connector front mounting

1621570

https://www.phoenixcontact.com/us/products/1621570

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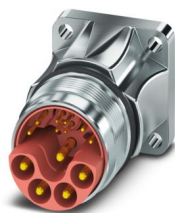
M23, Device connector front mounting, series: SH, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, contact connection type: Pin, Crimp connection, Axial O-ring, 4x Ø 3.2, flange dimensions: 26 mm x 26 mm, coding: N

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	1621570
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB33
Product key	ABRCDL
Catalog page	Page 119 (C-2-2019)
GTIN	4046356937184
Weight per piece (including packing)	54.4 g
Weight per piece (excluding packing)	40 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Safety note

Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• 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.
	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	• Assembled products may not be manipulated or improperly opened.
	• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• Ensure that the protective or functional ground has been properly connected.
	• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	• Only use tools recommended by Phoenix Contact
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• Operate the connector only when it is fully plugged in and interlocked.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Mounting

Mounting	4x Ø 3.2

Product properties

Product type	Circular connectors (device side)

Data management status

Article revision	10

Dimensions

Housing

Flange dimensions	26 mm x 26 mm

Material specifications

Flammability rating according to UL 94	V0

Connector

Type	straight

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
Coding	N
Insulation body material	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
Contact diameter Power contacts	2 mm
Litz wire cross-section Power contacts min.	0.25 mm²
Litz wire cross-section Power contacts max.	4 mm²
Rated current Power contacts	30 A
Rated surge voltage	6 kV
Rated voltage (II/3) power contact	850 V DC
Rated voltage (III/3) power contact	630 V AC
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.06 mm²
Litz wire cross-section Signal contacts max.	1 mm²
Nominal current per signal contact	8 A

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Note	for max. connection cross section
Rated surge voltage	1.5 kV
Rated voltage (III/3) signal contact	50 V
Installation height	2000 m

Housing

Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Flange dimensions	26 mm x 26 mm
Type of locking	for standard and SPEEDCON interlock
Pg screw connection	none
Degree of protection (plugged in)	IP67
	IP68
Thread type	M23

Environmental and real-life conditions

Ambient conditions

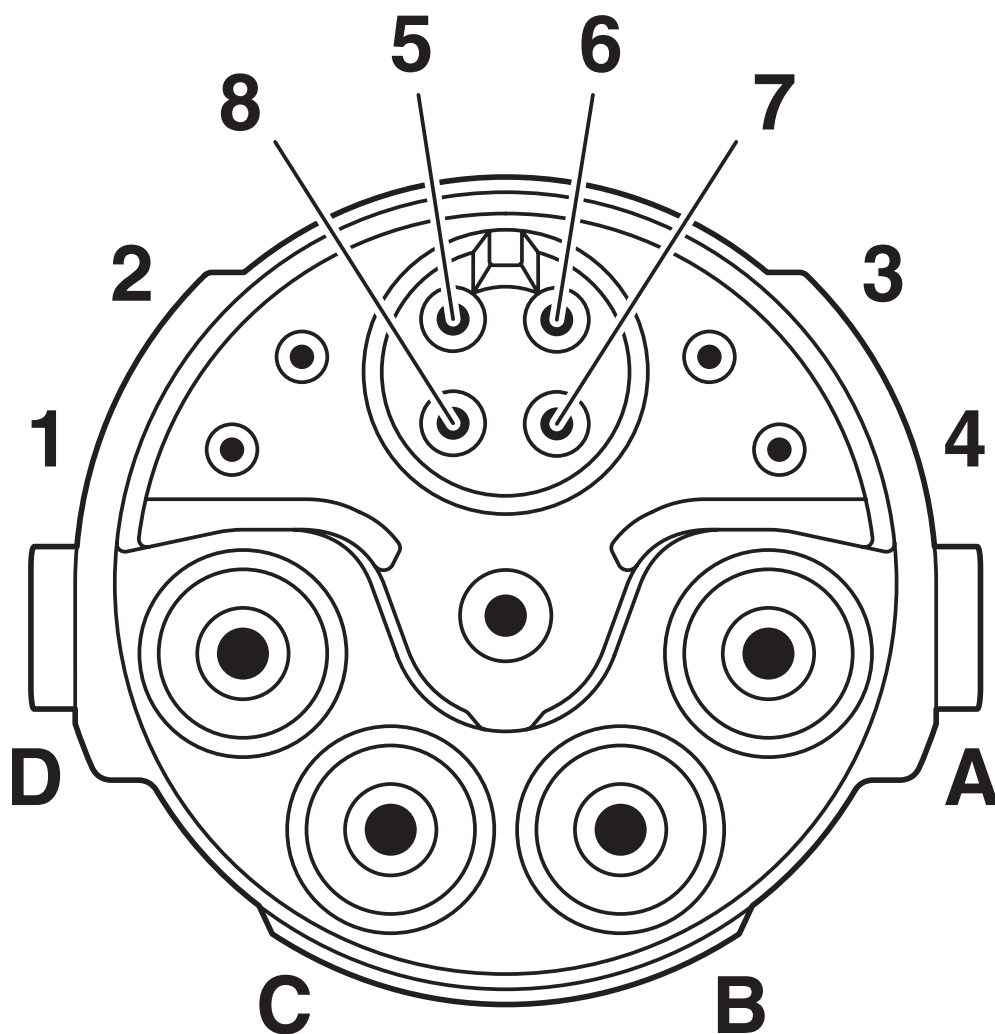|	
Ambient temperature (operation)	-40 °C ... 115 °C (see derating curve)
Ambient temperature (storage/transport)	15 °C ... 25 °C
Permissible humidity (storage/transport)	50 % ... 65 %

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Drawings

Schematic diagram

Pin assignment of pin, signal

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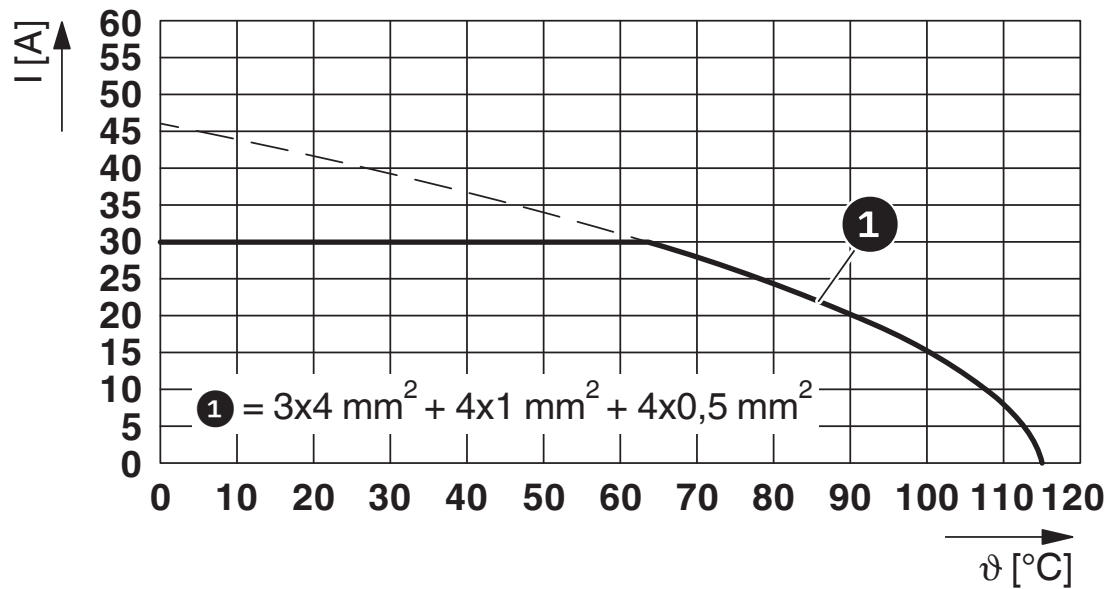
I = current strength, ϑ = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1621570

cUL Recognized
Approval ID: E153698-20181206

UL Recognized
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cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

ETIM

ETIM 9.0	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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Accessories

SH-Z2302 - Metal protective cap

1622139

https://www.phoenixcontact.com/us/products/1622139

Metal protective cap, Screw locking mechanism, M23, degree of protection: IP67/68/69K, series: SH, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244540

SH-Z2304 - Protective cap

1622137

https://www.phoenixcontact.com/us/products/1622137

Plastic protection cap for M23 hybrid connectors with external thread

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https://www.phoenixcontact.com/us/products/1621570

SH-Z2303 - Metal protective cap

1622138

https://www.phoenixcontact.com/us/products/1622138

Metal protective cap, Screw locking mechanism, M23, degree of protection: IP67/68/69K, series: SH

PROT-M23PRO-OT-IP20 - Plastic protective cap

1055753

https://www.phoenixcontact.com/us/products/1055753

Plastic protective cap, M23, degree of protection: IP20, series: M23 PRO

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ST-10KP010 - Crimp contact

1618255

https://www.phoenixcontact.com/us/products/1618255

Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm^2 ... 0.25 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

ST-10KP035 - Crimp contact

1618458

https://www.phoenixcontact.com/us/products/1618458

Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.25 mm^2 ... 1 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

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https://www.phoenixcontact.com/us/products/1621570

SF-20KP021 - Crimp contact

1621579

https://www.phoenixcontact.com/us/products/1621579

Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.25 mm^2 ... 1 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244464

SF-20KP022 - Crimp contact

1621580

https://www.phoenixcontact.com/us/products/1621580

Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1.5 mm^2 ... 2.5 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244464

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https://www.phoenixcontact.com/us/products/1621570

SF-20KP023 - Crimp contact

1621581

https://www.phoenixcontact.com/us/products/1621581

Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 2.5 mm^2 ... 4 mm^2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244465
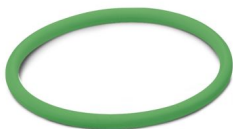
RF-Z0017 - Color coding

1620624

https://www.phoenixcontact.com/us/products/1620624

Color coding, color: green

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RF-Z0018 - Color coding

1620625

https://www.phoenixcontact.com/us/products/1620625

Color coding, color: orange
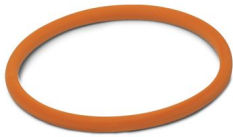
RF-Z0019 - Color coding

1620626

https://www.phoenixcontact.com/us/products/1620626

Color coding, color: anthracite

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