

ST-8EP1N8AA500S - Device connector front mounting



1620454

<https://www.phoenixcontact.com/pc/products/1620454>

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Device connector front mounting, angled rotatable, for standard and SPEEDCON interlock, M17, number of positions: 5+3+PE, contact connection type: Pin, Axial O-ring, 4x Ø 3.2, shielded: yes, flange dimensions: 25.75 mm x 25.75 mm, degree of protection: IP67, number of positions: 9, connection method: Crimp connection, series: ST

Your advantages

- Easy connection, thanks to infinitely adjustable cable outlet direction up to 310°
- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly

Commercial data

Item number	1620454
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRBEM
Catalog page	Page 138 (C-2-2019)
GTIN	4046356828444
Weight per piece (including packing)	83.5 g
Weight per piece (excluding packing)	44.44 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Order information:	Order crimp contacts 5 x 0.6 mm, 4 x Ø 1 mm separately
Safety note	
Safety note	<p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none">• 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

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warnings (e.g. DIN EN ISO 13732-1:2008-12).

Mounting

Mounting	4x Ø 3.2
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Product properties

Product type	Circular connectors (device side)
Series	ST
Application	Power
Number of positions	9
Connection profile	5+3+PE
Shielded	yes
Coding	N
Thread type	M17

Data management status

Article revision	07
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Dimensions

Housing

Flange dimensions	25.75 mm x 25.75 mm
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Material specifications

Seal material	FPM
Housing material	Metal

Electrical properties

Contact

Contact diameter	1 mm
Max. current	14 A
Nominal voltage U_N	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV

Contact

Contact diameter	0.6 mm
Max. current	3.6 A
Nominal voltage U_N	60 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	1.5 kV

Connection data

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Conductor connection

Connection method	Crimp connection
Contact connection type	Pin

Connector

Type	angled rotatable
Direction of rotation	Standard

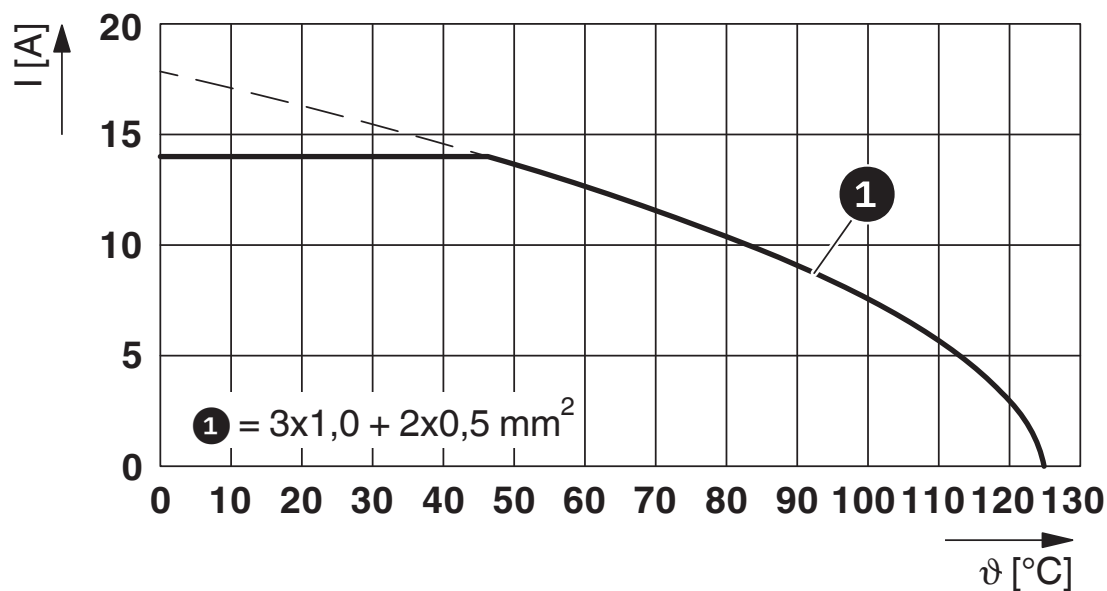
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 125 °C
Altitude	2000 m

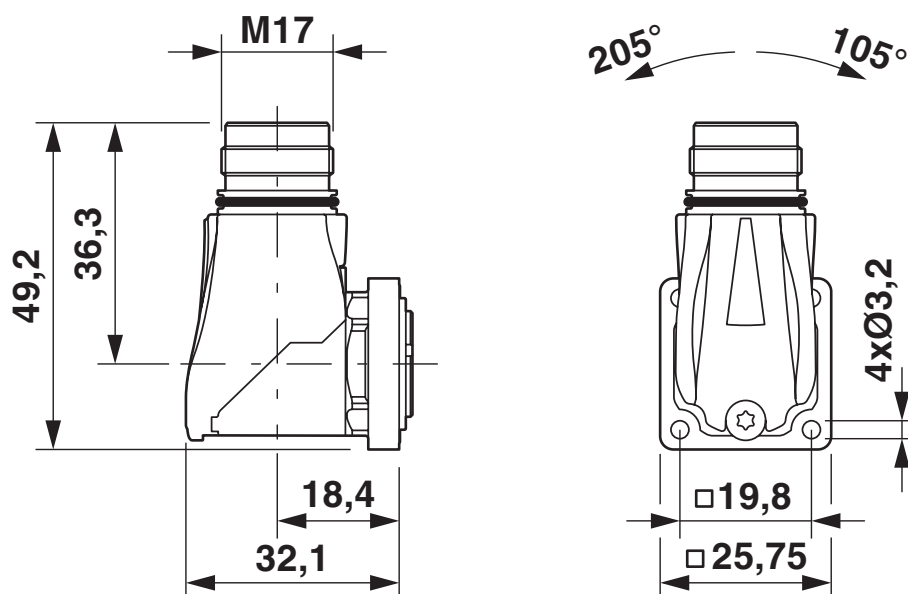
Drawings

Diagram



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

Dimensional drawing

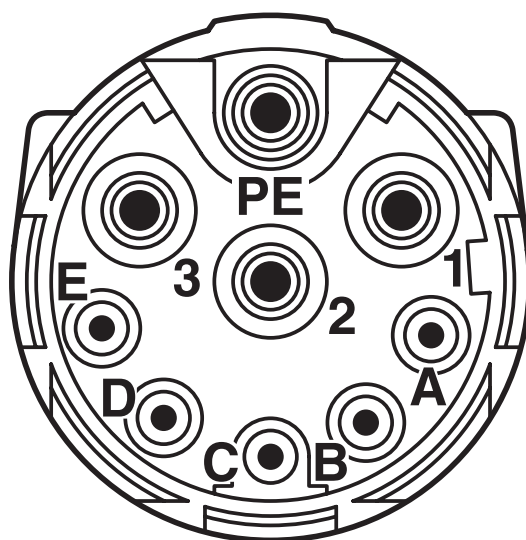


Dimensional drawing

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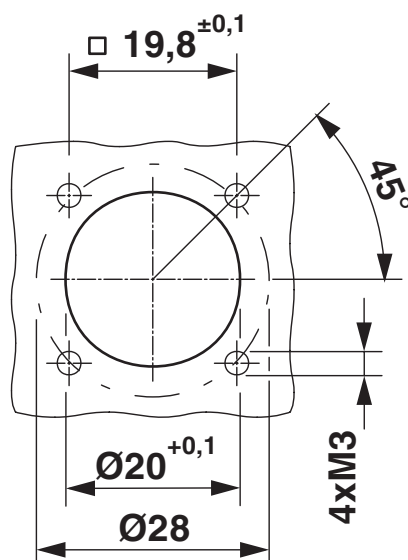
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Schematic diagram



Connector pin assignment

Schematic diagram



Installation dimensions

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Classifications

ECLASS

ECLASS-11.0	27440102
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ETIM

ETIM 8.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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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	028f3e03-ce9f-48e9-bd9d-341f3507a7b9

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Accessories

ST-06KP010 - Crimp contact

1607577

<https://www.phoenixcontact.com/pc/products/1607577>



Crimp contact, Pin, turned, contact diameter: 0.6 mm, crimp range: 0.06 mm² ... 0.25 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242311

ST-06KP020 - Crimp contact

1607578

<https://www.phoenixcontact.com/pc/products/1607578>



Crimp contact, Pin, turned, contact diameter: 0.6 mm, crimp range: 0.14 mm² ... 0.34 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242311

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ST-06KP030 - Crimp contact

1607579

<https://www.phoenixcontact.com/pc/products/1607579>



Crimp contact, Pin, turned, contact diameter: 0.6 mm, crimp range: 0.34 mm² ... 0.5 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242312

ST-10KP010 - Crimp contact

1618255

<https://www.phoenixcontact.com/pc/products/1618255>



Crimp contact, Pin, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm² ... 0.25 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

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ST-10KP035 - Crimp contact

1618458

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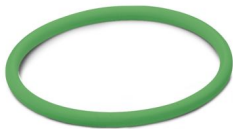
Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.25 mm² ... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243215

ST-Z0019 - Color coding

1620621

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Color coding, color: green



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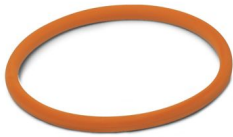
<https://www.phoenixcontact.com/pc/products/1620454>

ST-Z0020 - Color coding

1620622

<https://www.phoenixcontact.com/pc/products/1620622>

Color coding, color: orange



ST-Z0021 - Color coding

1620623

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Color coding, color: black



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ST-Z0014 - Metal protective cap

1616069

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Metal protective cap, M17, degree of protection: IP67, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243010

ST-Z0013 - Metal protective cap

1616068

<https://www.phoenixcontact.com/pc/products/1616068>



Metal protective cap, M17, degree of protection: IP67, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243009

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