

1613614

https://www.phoenixcontact.com/us/products/1613614

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Device connector front mounting, straight, for standard and SPEEDCON interlock, M17, number of positions: 5+3+PE, contact connection type: Socket, Axial O-ring, Central fixing, shielded: yes, degree of protection: IP67, number of positions: 9, connection method: Crimp connection, series: ST, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242801

Your advantages

- · Application-specific wall mounting optionally with thread or anti-rotation protection and lock nut
- · Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly

Commercial data

Item number	1613614
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBEL
Catalog page	Page 139 (C-2-2019)
GTIN	4046356442213
Weight per piece (including packing)	30.7 g
Weight per piece (excluding packing)	20.2 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order information:	Order crimp contacts 5 x 0.6 mm, 4 x Ø 1 mm separately
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



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	warnings (e.g. DIN EN ISO 13732-1:2008-12).
unting	
Mounting type	Front mounting
Mounting	Central fixing
oduct 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
terial specifications	
Seal material	FPM
Housing material ectrical properties	Metal
ectrical properties	
contact Contact diameter	1 mm
contact Contact diameter Max. current	1 mm 14 A
Contact Contact diameter Max. current Nominal voltage U _N	1 mm 14 A 630 V
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	1 mm 14 A 630 V
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	1 mm 14 A 630 V III 3
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Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current	1 mm 14 A 630 V III 3 6 kV
Contact Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N	1 mm 14 A 630 V III 3 6 kV
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Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	1 mm 14 A 630 V III 3 6 kV 0.6 mm 3.6 A 60 V III
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	1 mm 14 A 630 V III 3 6 kV 0.6 mm 3.6 A 60 V III
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	1 mm 14 A 630 V III 3 6 kV 0.6 mm 3.6 A 60 V III
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	1 mm 14 A 630 V III 3 6 kV 0.6 mm 3.6 A 60 V III
Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	1 mm 14 A 630 V III 3 6 kV 0.6 mm 3.6 A 60 V III



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Connector

Туре	straight
Direction of rotation	Standard
Connection 1	
Head design	Socket

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C 125 °C
Ambient temperature (storage/transport)	15 °C 25 °C
Altitude	2000 m
Permissible humidity (storage/transport)	50 % 65 %

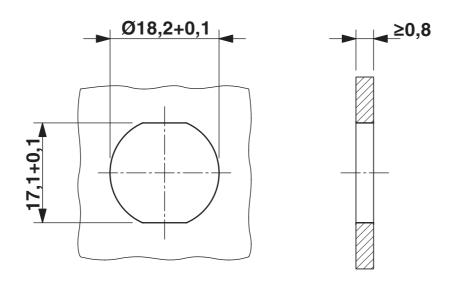


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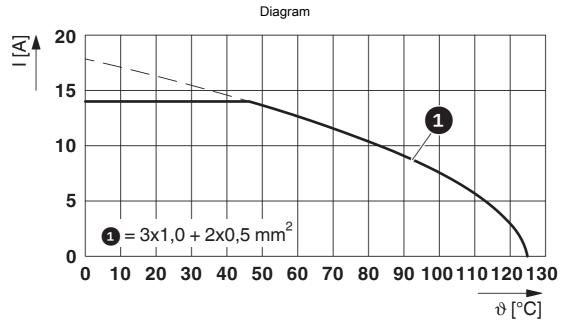
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Drawings

Dimensional drawing



Installation dimensions: mounting with anti-rotation protection and locking nut



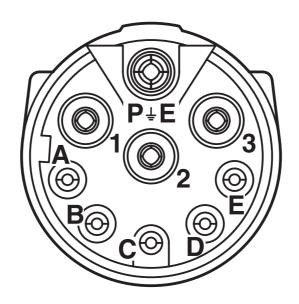
I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant



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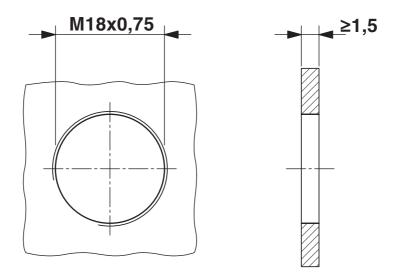
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Schematic diagram



Connector pin assignment

Dimensional drawing



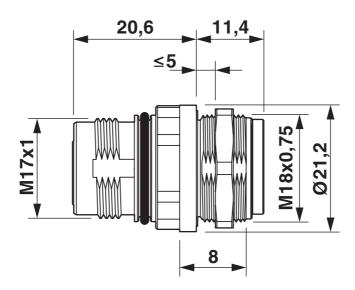
Installation dimensions: mounting with thread



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Dimensional drawing



Dimensional drawing



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1613614

UL Recognized Approval ID: E153698-20140124				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

cUL Recognized Approval ID: E153698-2	cUL Recognized Approval ID: E153698-20140124			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

cUL Recognized Approval ID: E335019	cUL Recognized Approval ID: E335019-20111129			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

UL Recognized Approval ID: E335019-2	UL Recognized Approval ID: E335019-20111129			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	3.5 A	-	-
Signal	60 V	3.5 A	-	-

UL Listed Approval ID: E468743-20210825				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	10 A	-	18 - 18
Signal	60 V	2 A	-	20 - 20

CUL Listed Approval ID: E468743-20210825				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	8 A	18 - 18	-
Signal	60 V	2 A	20 - 20	-



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cULus Listed



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Classifications

ECLASS

	ECLASS-11.0	27440102			
	ECLASS-12.0	27440116			
	ECLASS-13.0	27440116			
ET	TIM				
	ETIM 9.0	EC002635			
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	23c3a291-950f-4684-ae90-7416c750b268



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Accessories

ST-06KS010 - Crimp contact

1607580

https://www.phoenixcontact.com/us/products/1607580



Crimp contact, Socket, turned, contact diameter: 0.6 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.: 1242314

ST-06KS020 - Crimp contact

1607581

https://www.phoenixcontact.com/us/products/1607581



Crimp contact, Socket, turned, contact diameter: 0.6 mm, crimp range: 0.14 mm^2 ... 0.34 mm^2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242314



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ST-06KS030 - Crimp contact

1607582

https://www.phoenixcontact.com/us/products/1607582



Crimp contact, Socket, 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.: 1242315

ST-10KS010 - Crimp contact

1618239

https://www.phoenixcontact.com/us/products/1618239



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: $0.06 \text{ mm}^2 \dots 0.25 \text{ mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243216



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ST-10KS035 - Crimp contact

1618464

https://www.phoenixcontact.com/us/products/1618464



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range: $0.25~\text{mm}^2$... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1243216

ST-Z0019 - Color coding

1620621

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Color coding, color: green





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ST-Z0020 - Color coding

1620622

https://www.phoenixcontact.com/us/products/1620622

Color coding, color: orange



ST-Z0021 - Color coding

1620623

https://www.phoenixcontact.com/us/products/1620623

Color coding, color: black





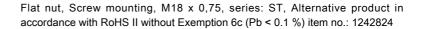
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ST-E2015151 - Flat nut

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https://www.phoenixcontact.com/us/products/1613831





ST-Z0014 - Metal protective cap

1616069

https://www.phoenixcontact.com/us/products/1616069



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



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ST-Z0013 - Metal protective cap

1616068

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

ST-Z0001 - Contact removal tool

1607770

https://www.phoenixcontact.com/us/products/1607770



Unlocking tool for contact carriers for snapping in the M17 device connectors



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PROT-M17PRO-OT-IP20 - Plastic protective cap

1055708

https://www.phoenixcontact.com/us/products/1055708



Plastic protective cap, M17, degree of protection: IP20, series: M17 PRO

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