

1613589

https://www.phoenixcontact.com/pc/products/1613589

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Device connector front mounting, straight, for standard and SPEEDCON interlock, M17, number of positions: 6+PE, contact connection type: Socket, Axial O-ring, 4x Ø2,7, shielded: yes, flange dimensions: 21.6 mm x 21.6 mm, degree of protection: IP67, number of positions: 7, connection method: Crimp connection, series: ST

Your advantages

- · Ideal for compact devices
- · Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly

Commercial data

Item number	1613589
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRBEL
Catalog page	Page 135 (C-2-2019)
GTIN	4046356401371
Weight per piece (including packing)	30 g
Weight per piece (excluding packing)	25.36 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order information:	Order crimp contacts 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	4x Ø2,7
oduct properties	
Product type	Circular connectors (device side)
Series	ST
Application	Power
Number of positions	7
Connection profile	6+PE
Shielded	yes
Coding	N
Thread type	M17
Data management status	
Article revision	05
Housing	
Flange dimensions	21.6 mm x 21.6 mm
aterial specifications	
Seal material	FPM
Housing material	Metal
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD Zn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM
ectrical properties	
Contact	
Contact diameter	1 mm
Max. current	14 A
Nominal voltage U _N	630 V
Overvoltage category	
Degree of pollution	3
Rated surge voltage	6 kV
Contact	
Contact diameter	1 mm

Connection data



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Conductor connection

Connection method	Crimp connection
Contact connection type	Socket

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	3000 m
Permissible humidity (storage/transport)	50 % 65 %

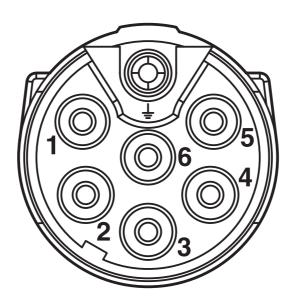


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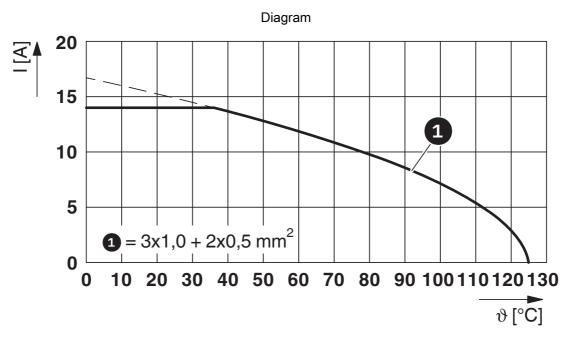
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Drawings

Schematic diagram



Connector pin assignment



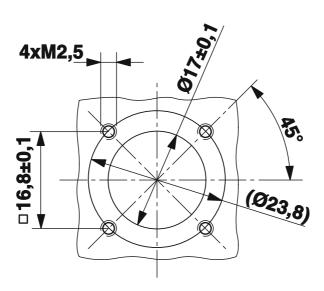
I = current strength, ϑ = ambient temperature, 3x 14 A + 2x 2 A constant



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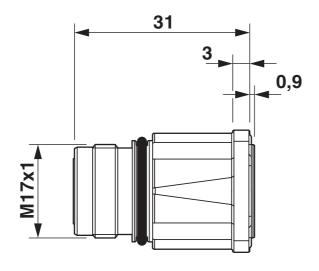
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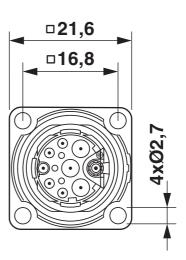
Dimensional drawing



Installation dimensions

Dimensional drawing





Dimensional drawing



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1613589



cUL Recognized

Approval ID: E335019-20111129



UL Recognized

Approval ID: E335019-20111129

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	-	19 - 18

cUL Listed Approval ID: E468743-202	210825			
	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	19 - 18	-

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UL Recognized

Approval ID: E153698-20140124



cUL Recognized

Approval ID: E153698-20140124

cULus Listed



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Classifications

ECLASS

UNSPSC 21.0

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116
ETIM	
ETIM 9.0	EC002635
UNSPSC	

39121400



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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

ST-10KS010 - Crimp contact

1618239

https://www.phoenixcontact.com/pc/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

ST-10KS035 - Crimp contact

1618464

https://www.phoenixcontact.com/pc/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



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ST-Z0019 - Color coding

1620621

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Color coding, color: green



ST-Z0020 - Color coding

1620622

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Color coding, color: orange





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ST-Z0021 - Color coding

1620623

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Color coding, color: black



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



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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

PROT-M17PRO-OT-IP20 - Plastic protective cap

1055708

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



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

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