

1607691

https://www.phoenixcontact.com/us/products/1607691

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Device connector front mounting, angled rotatable, SPEEDCON, M17, number of positions: 3+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: 4, connection method: Crimp connection, series: ST

Commercial data

Item number	1607691
Packing unit	16 pc
Minimum order quantity	16 pc
Note	Made to order (non-returnable)
Sales key	AB32
Product key	ABRBEM
GTIN	4046356273961
Weight per piece (including packing)	89.25 g
Weight per piece (excluding packing)	0.46 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order information:	Order 4 x Ø 2 mm crimp contacts separately
fety 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).
ounting	
Mounting type	Front mounting
Mounting	4x Ø2,7
roduct properties	
Product type	Circular connectors (device side)
Series	ST
Application	Power
Number of positions	4
Connection profile	3+PE
Shielded	yes
Coding	N
Thread type	M17
imensions	
Housing	
Flange dimensions	21.6 mm x 21.6 mm
laterial specifications	
Seal material	FPM
Housing material	Metal
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD
Insulator material	Zn) PA 6.6
	FPM
Gasket and O-ring material	FFIVI
lectrical properties	
Contact	
Contact diameter	2 mm
Max. current	20 A
Nominal voltage U _N	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
Contact	
Contact diameter	2 mm
connection data	
Conductor connection	
	Crimp connection
Connection method	



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Connector

Туре	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	3000 m

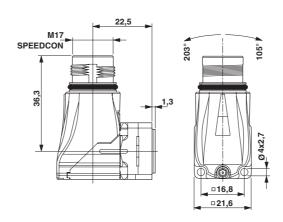


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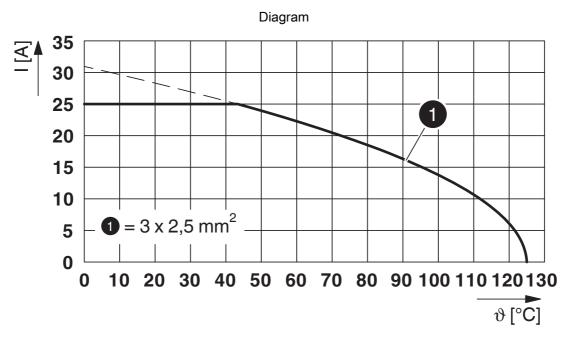
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Drawings

Dimensional drawing



Dimensional drawing



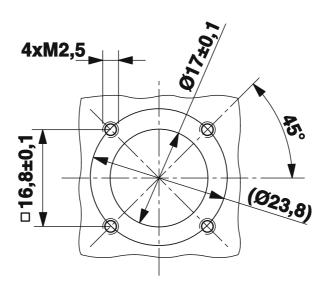
I = current strength, ϑ = ambient temperature, 3x 25 A



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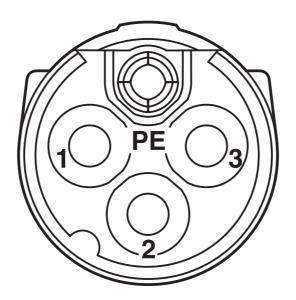
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Dimensional drawing



Installation dimensions

Schematic diagram



Connector pin assignment



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1607691



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	20 A	-	14 - 14

cUL Listed Approval ID: E468743-20210825				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	18 A	14 - 14	-

71	UL Recognized Approval ID: E153698-20140124		

. 7.1	cUL Recognized Approval ID: E153698-20140124		

cULus Listed



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Classifications

ECLASS

	ECLASS-11.0	27440109			
	ECLASS-12.0	27440109			
	ECLASS-13.0	27440109			
FT	ETIM				
	1191				
	ETIM 9.0	EC003569			
UNSPSC					
	UNSPSC 21.0	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-20KS010 - Crimp contact

1607657

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Crimp contact, Socket, turned, contact diameter: 2 mm, crimp range: $0.25~\text{mm}^2$... $1~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1237423

ST-20KS020 - Crimp contact

1607658

https://www.phoenixcontact.com/us/products/1607658



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: $1~\text{mm}^2$... $2.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237423



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ST-Z0019 - Color coding

1620621

https://www.phoenixcontact.com/us/products/1620621

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

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

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/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

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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