

1162598

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Device connector, rear mounting, Power, 3-position, Socket, straight, M12, coding: S , on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 1.5 m, 1.31 mm 2 , UL/cUL stranded hook-up wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1238559

Your advantages

- · For compact devices: transmit high power in a confined space
- · For industrial infrastructure applications
- · Protection against mismatching thanks to S-coding
- · Preassembled with litz wires for immediate use
- · Customer-specific assemblies and litz wire lengths available
- · Sealed on the litz wire side for optimum leak-tightness
- For high transmission safety: shield connection to the housing with optional EMC nut

Commercial data

Item number	1162598
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	AB27
Product key	ABQCHG
GTIN	4063151173166
Weight per piece (including packing)	96.62 g
Weight per piece (excluding packing)	87 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

lotes	
General	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
General	Lock nut is included in the scope of delivery
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 when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	Only use tools recommended by Phoenix Contact

Use a protective cap to protect connectors that are not in use.
 The suitable accessories are available online in the accessory



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	section of the product at phoenixcontact.com/products
	 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
	 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 type	Rear mounting M16 x 1.5 With flat nut
Assembly instructions	With flat nut
Connection method	Individual wires
Product properties	
Product type	Circular connectors (device side)
Sensor type	Power
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	S
Thread type	M12
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
Naterial specifications	
Flammability rating according to UL 94	VO
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	CuZn alloy, nickel-plated
Conductor material	Bare Cu litz wires
Electrical properties	
Rated voltage in acc. with IEC 61076-2-101	630 V
Rated surge voltage	6 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	630 V
Nominal current I _N	16 A



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Test voltage	6 kV
onnection data	
Conductor connection	
Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	1.31 mm²
Tightening torque	3 Nm
righterining torque	4 Nm
echanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 100
onnector	
Connection 1	
Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	S
0	
Connection 2	free cable end
Head design	nee cable end
able/line	
Cable length	1.5 m
Cable type	UL/cUL stranded hook-up wire
Signal type/category	Power
Wire diameter incl. insulation	2.2 mm
Single wire, color	black 1, black 2, green/yellow
Conductor material	Bare Cu litz wires
AWG signal line	16
Material wire insulation	mPPE
Halogen-free	yes
Flame resistance	in acc. to UL 1581 VW1
Ambient temperature (operation)	-40 °C 105 °C (cable, fixed installation)
	-20 °C 105 °C (Cable, flexible installation)
nvironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP65
. U . T P	IP67



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	IP65/IP67
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
	-20 °C 105 °C (Cable, flexible installation)
	-40 °C 105 °C (cable, fixed installation)
Standards and regulations	
Flame resistance	in acc. to UL 1581 VW1
M12	
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Note	In line with

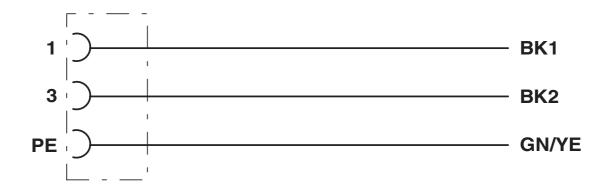


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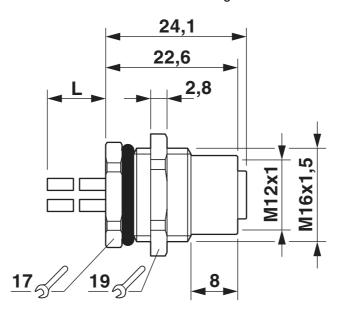
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Drawings

Circuit diagram



Dimensional drawing

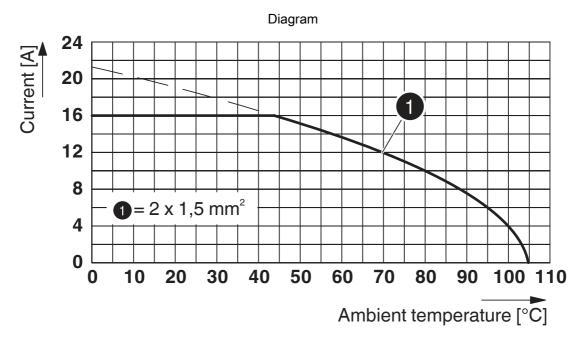


Dimensional drawing



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Derating diagram

Schematic diagram

Pin assignment: M12 socket, 3-pos., S-coded, view of socket side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1162598



.71	cUL Recognized Approval ID: E468743-2	0190917			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	12 A	- 16	-

7/	UL Recognized Approval ID: E468743-20	i zed 468743-20190917				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		600 V	12 A	- 16	-	

cULus Recognized



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Classifications

UNSPSC 21.0

ECLASS

202.00				
	ECLASS-11.0	27440102		
	ECLASS-12.0	27440116		
	ECLASS-13.0	27440116		
ETIM				
	ETIM 8.0	EC002635		
UNSPSC				
0.	101 00			

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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