

1605865

https://www.phoenixcontact.com/us/products/1605865

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Device connector front mounting with knurled nut, straight, Screw locking mechanism, M40, number of positions: 4+3+PE, contact connection type: Socket, Axial O-ring, $4\times \emptyset 4,2$, shielded: yes, flange dimensions: 40 mm x 40 mm, degree of protection: IP67, cable diameter range: 0 mm ... 0 mm, number of positions: 8, connection method: Crimp connection, series: SM, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242014

Commercial data

Item number	1605865
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB32
Product key	ABRBGN
Catalog page	Page 167 (C-2-2019)
GTIN	4046356255370
Weight per piece (including packing)	323 g
Weight per piece (excluding packing)	268.766 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Order information:	Order crimp contacts 4 x Ø 2 mm, 4 x Ø 3.6 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



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	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).
ounting	
Mounting type	Front mounting
Mounting	4x Ø4,2
roduct properties	
Product type	Circular connectors (device side)
Series	SM
Application	Power
Number of positions	8
Connection profile	4+3+PE
Shielded	yes
Coding	N
Thread type	M40
Housing Flange dimensions	40 mm x 40 mm
Flange dimensions	40 111111 X 40 111111
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	3.6 mm
Max. current	70 A
Nominal voltage U _N	630 V
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV
Nated Surge Voltage	
Contact	
	2 mm
Contact	2 mm 30 A
Contact Contact diameter	



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Altitude

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Degree of pollution	3		
Rated surge voltage	4 kV		
Connection data			
Conductor connection			
Connection method	Crimp connection		
Contact connection type	Socket		
Connector			
Туре	straight		
Connection 1			
Head design	Socket		
Cable/line			
External cable diameter	0 mm 0 mm		
Environmental and real-life conditions			
Ambient conditions			
Degree of protection	IP67		
Ambient temperature (operation)	-40 °C 125 °C		

3000 m

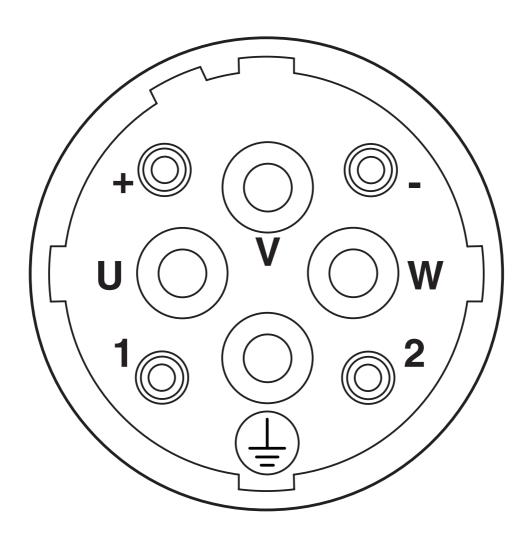


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Drawings

Schematic diagram

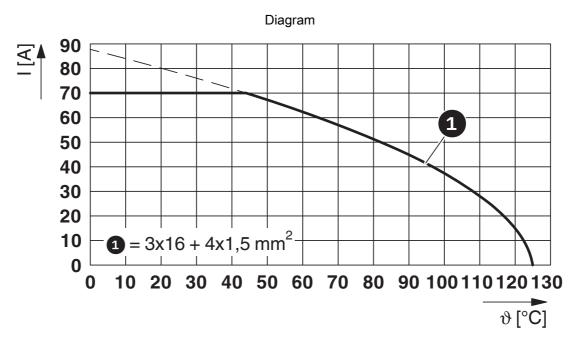


Connector pin assignment



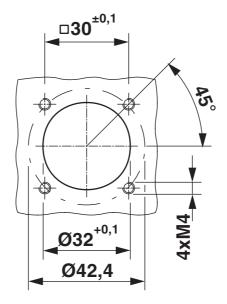
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I = current strength, T = ambient temperature

Dimensional drawing

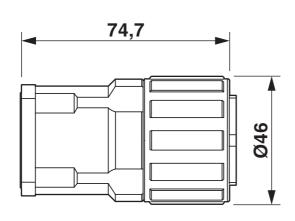


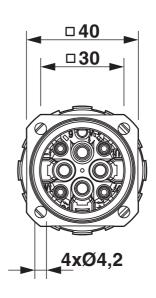


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Dimensional drawing





Dimensional drawing



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1605865

CUL Recognized Approval ID: E153698-20150903					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power		600 V	40 A	-	-
Signal		600 V	20 A	-	-

UL Recognized Approval ID: E153698-20150903				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	600 V	65 A	-	-
Signal	600 V	30 A	-	-

	_		
CUL	ıs Red	coaniz	zed



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Classifications

ECLASS

201.00			
	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	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	5be65b78-e905-4ed7-807e-4fffbfcf7772



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Accessories

SM-36KS001 - Crimp contact

1605756

https://www.phoenixcontact.com/us/products/1605756



Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 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.: 1241977

SM-36KS002 - Crimp contact

1605758

https://www.phoenixcontact.com/us/products/1605758



Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: $2.5~\text{mm}^2$... $4~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241979



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SM-36KS003 - Crimp contact

1605760

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Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: 4 mm 2 ... 6 mm 2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241979

SM-36KS004 - Crimp contact

1605762

https://www.phoenixcontact.com/us/products/1605762



Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: $6~\text{mm}^2$... $10~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241980



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SF-7PS2000 - Crimp contact

1605636

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Crimp contact, Socket, turned, Single contact, contact diameter: 2 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.: 1241952

SF-7NS2000 - Crimp contact

1605631

https://www.phoenixcontact.com/us/products/1605631



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: $0.75~\text{mm}^2$... $1.5~\text{mm}^2$, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1237431



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SF-7QS2000 - Crimp contact

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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.: 1237431

SF-7MS2000 - Crimp contact

1605628

https://www.phoenixcontact.com/us/products/1605628



Crimp contact, Socket, turned, Single contact, contact diameter: 2 mm, crimp range: 4 mm 2 ... 4 mm 2 , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241949



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PROT-M40-PW-IT-IP20 - Plastic protective cap

1577213

https://www.phoenixcontact.com/us/products/1577213



Plastic protective cap, M40, degree of protection: IP20, series: SM, SB

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com