

#### 1623366

https://www.phoenixcontact.com/us/products/1623366

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M40, Device connector front mounting, series: SB, angled rotatable, shielded: yes, for standard and SPEEDCON interlock, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, Axial O-ring, 4x Ø4,2, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244882

## Your advantages

- · Easy connection, thanks to infinitely adjustable cable outlet direction up to 310°
- · All housing can be fitted with pin or socket contacts
- · A total of eight contacts are available for signal transmission
- · Mechanical coding reliably prevents incorrect connections
- · Safe use in the field, thanks to high degree of protection
- · Consistent EMC protection for reliable connection solutions in the industrial environment

## Commercial data

Item number	1623366
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB33
Product key	ABRCEM
Catalog page	Page 128 (C-2-2019)
GTIN	4055626194882
Weight per piece (including packing)	604.7 g
Weight per piece (excluding packing)	604 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

Order information:	Crimp contacts, 8 x Ø 1 mm, 5 x Ø 3.6 mm, order separately
afety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper us 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 a operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicat that only personnel familiar with electrical engineering are allowed to install and operate the product.
	<ul> <li>The products are suitable for applications in plant, controller, and electrical device engineering.</li> </ul>
	<ul> <li>When operating the connectors in outdoor applications, they must be separately protected against environmental influence</li> </ul>
	Assembled products may not be manipulated or improperly opened.
	<ul> <li>Only use mating connectors that are specified in the technic data of the standards listed (e.g. the ones listed in the produc accessories online at phoenixcontact.com/products).</li> </ul>
	<ul> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>
	<ul> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>
	VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14. are applicable when combining several circuits in a cable and connector
	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
	<ul> <li>The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> </ul>
	<ul> <li>Use a protective cap to protect connectors that are not in use The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products</li> </ul>
	<ul> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>
	<ul> <li>Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the</li> </ul>



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	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 warnings (e.g. DIN EN ISO 13732-1:2008-12).
oduct properties	
Product type	Circular connectors (device side)
onnector	
Connection 1 Head design	Socket
neau uesign	SUCKEL
Insulating body	
Connection method	Crimp connection
Contact switching type	Socket
Application	Hybrid
Number of positions	13
Direction of rotation	Standard
Contact diameter Power contacts	3.6 mm
Litz wire cross-section Power contacts min.	1 mm <sup>2</sup>
Litz wire cross-section Power contacts max.	10 mm <sup>2</sup>
Rated current Power contacts	70 A
Rated voltage	630 V AC
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.06 mm²
Litz wire cross-section Signal contacts max.	1.5 mm <sup>2</sup>
Nominal current per signal contact	8 A
Rated voltage Signal contact	500 V
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Contact diameter Data contacts	1 mm
Litz wire cross-section Data contacts min.	0.06 mm <sup>2</sup>
Litz wire cross-section Data contacts max.	1.5 mm <sup>2</sup>
Rated current per data contact at 25°C	8 A
Rated voltage Data contacts	50 V
Rated surge voltage	1.5 kV



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Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Type of locking	for standard and SPEEDCON interlock
Pg screw connection	none
Degree of protection (plugged in)	IP68/IP69K
Thread type	M40

## Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)

-40 °C ... 115 °C (see derating curve)

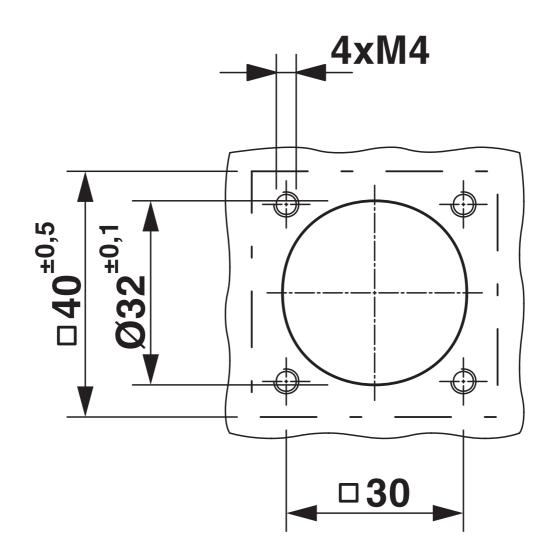




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## Drawings

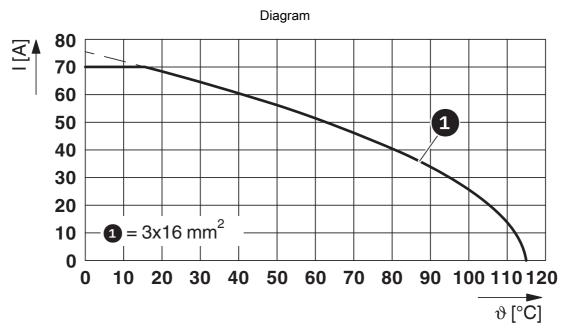
Dimensional drawing



Installation dimensions

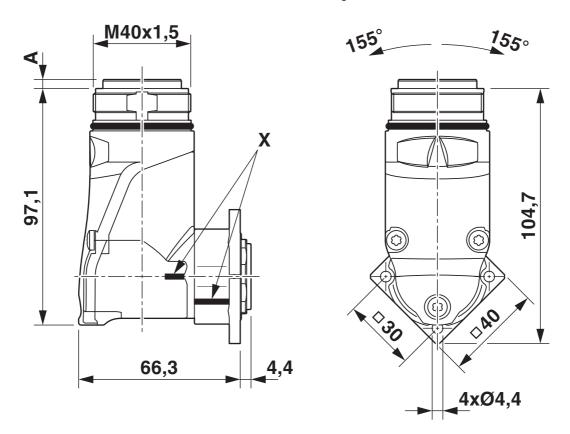


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I = current strength,  $\vartheta$  = ambient temperature, power contacts A–C: 3x up to 70 A, signal contacts: 4x 2 A constant, data contacts: no load

#### **Dimensional drawing**

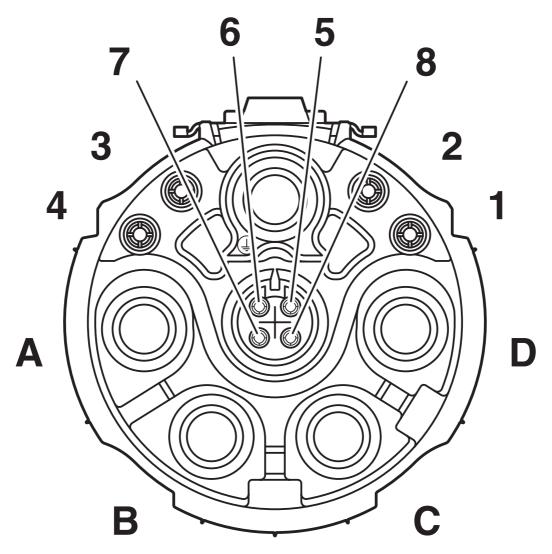


Pin version: dimension A = 3.7 mm, socket version: dimension A = 0.05 mm, X = reference position for angle of rotation



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Schematic diagram



Pin assignment of socket signal, coding 1



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## Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1623366

CUL Recognized Approval ID: E153698-2	AU CUL Recognized Approval ID: E153698-20190718			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	24 A	- 10	-
Signal	500 V	4 A	- 1,5	-
Data	50 V	1 A	- 0,34	-

<b>UL Recognized</b> Approval ID: E153698-2	Approval ID: E153698-20190718			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	600 V	32 A	- 10	-
Signal	500 V	4 A	- 1,5	-
Data	50 V	1 A	- 0,34	-

cULus Recognized



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## Classifications

## ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

## ETIM

	ETIM 9.0	EC002635	
UN	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	6cd98130-75cb-4904-a155-49fb1cb123e8



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## Accessories

### SB-Z0001 - Metal protective cap

1623827 https://www.phoenixcontact.com/us/products/1623827



Metal protective cap, Screw locking mechanism, M40, degree of protection: IP67/68/69K, series: SM, SB, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244989

### SB-Z0002 - Metal protective cap

#### 1623828

https://www.phoenixcontact.com/us/products/1623828



Metal protective cap, Screw locking mechanism, M40, degree of protection: IP67, series: SM, SB, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244990

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## 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

## ST-10KS035 - Crimp contact

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



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range: 0.25 mm<sup>2</sup> .. . 1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243216

https://www.phoenixcontact.com/us/products/1623366



SB-10KS001 - Crimp contact

1623603

https://www.phoenixcontact.com/us/products/1623603



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range: 0.06 mm<sup>2</sup> .. . 0.25 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244919

## SB-10KS002 - Crimp contact

1623604 https://www.phoenixcontact.com/us/products/1623604



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range: 0.34 mm<sup>2</sup> .. . 0.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244919



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SB-10KS003 - Crimp contact

1623605

https://www.phoenixcontact.com/us/products/1623605



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range:  $0.5 \text{ mm}^2 \dots$  1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244919

### SB-10KS004 - Crimp contact

1623606 https://www.phoenixcontact.com/us/products/1623606



Crimp contact, Socket, turned, contact diameter: 1 mm, crimp range:  $1 \text{ mm}^2 \dots 1$ . 5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244920

https://www.phoenixcontact.com/us/products/1623366



SB-36KS002 - Crimp contact

1623378

https://www.phoenixcontact.com/us/products/1623378



Crimp contact, Socket, turned, contact diameter: 3.6 mm, crimp range: 2.5 mm<sup>2</sup> . .. 4 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244890

## SB-36KS003 - Crimp contact

1623379 https://www.phoenixcontact.com/us/products/1623379



Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range:  $4 \text{ mm}^2 \dots 6 \text{ mm}^2$ , Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244890

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SB-36KS004 - Crimp contact

1623380

https://www.phoenixcontact.com/us/products/1623380



Crimp contact, Socket, turned, Single contact, contact diameter: 3.6 mm, crimp range: 10 mm<sup>2</sup> ... 10 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244891

### PROT-M40-PW-OT-IP20 - Plastic protective cap

1577212 https://www.phoenixcontact.com/us/products/1577212



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



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SM-Z0028 - Color coding

1620627 https://www.phoenixcontact.com/us/products/1620627

Color coding, color: green



### SM-Z0029 - Color coding

1620628 https://www.phoenixcontact.com/us/products/1620628

Color coding, color: orange







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SM-Z0030 - Color coding

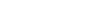
## 1620629 https://www.phoenixcontact.com/us/products/1620629

Color coding, color: black



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