

# SH-8EP008A0000 - Contact insert



1627080

<https://www.phoenixcontact.com/us/products/1627080>

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Example photograph

Contact insert, M23, number of positions: 4+4+PE / 3+N+PE, contact connection type: Pin, Crimp connection, series: SH

## Commercial data

Item number	1627080
Packing unit	100 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	BF19
Product key	ABRCDT
GTIN	4055626427232
Weight per piece (including packing)	2.11 g
Weight per piece (excluding packing)	2.11 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Order information:	Without data element, crimp contacts, 4x Ø 1 mm, 5x Ø 2 mm, order separately
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### 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.
	<ul style="list-style-type: none"><li>• 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.</li></ul>
	<ul style="list-style-type: none"><li>• 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.</li></ul>
	<ul style="list-style-type: none"><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li></ul>
	<ul style="list-style-type: none"><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li></ul>
	<ul style="list-style-type: none"><li>• Assembled products may not be manipulated or improperly opened.</li></ul>
	<ul style="list-style-type: none"><li>• 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 <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li></ul>
	<ul style="list-style-type: none"><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li></ul>
	<ul style="list-style-type: none"><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li></ul>
	<ul style="list-style-type: none"><li>• Ensure that the protective or functional ground has been properly connected.</li></ul>
	<ul style="list-style-type: none"><li>• 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</li></ul>
	<ul style="list-style-type: none"><li>• Only use tools recommended by Phoenix Contact</li></ul>
	<ul style="list-style-type: none"><li>• The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li></ul>
	<ul style="list-style-type: none"><li>• Operate the connector only when it is fully plugged in and interlocked.</li></ul>
<ul style="list-style-type: none"><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li></ul>	
<ul style="list-style-type: none"><li>• Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li></ul>	
<ul style="list-style-type: none"><li>• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to</li></ul>	

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warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

## Product properties

Product type	Contact insert
Series	SH
Application	Hybrid
Number of positions	9
Connection profile	4+4+PE / 3+N+PE
Thread type	M23

## Electrical properties

### Contact: Power contacts

Contact diameter	2 mm
Min. cross section	0.25 mm <sup>2</sup>
Max. cross section	4 mm <sup>2</sup>
Nominal current I <sub>N</sub>	30 A (for max. connection cross section)
Nominal voltage U <sub>N</sub>	630 V AC (Overvoltage category III/3) 850 V DC (Overvoltage category II/3)
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	6 kV

### Contact: Signal contacts

Contact diameter	1 mm
Min. cross section	0.06 mm <sup>2</sup>
Max. cross section	1 mm <sup>2</sup>
Nominal current I <sub>N</sub>	8 A (for max. connection cross section)
Nominal voltage U <sub>N</sub>	50 V AC/DC (Contact 1 ... 4)
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	1.5 kV

## Connection data

Connection method	Crimp connection
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## Material specifications

Material Insulating body	PA 6.6
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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	100
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## Environmental and real-life conditions

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## Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Altitude	2000 m
Permissible humidity (storage/transport)	50 % ... 65 %

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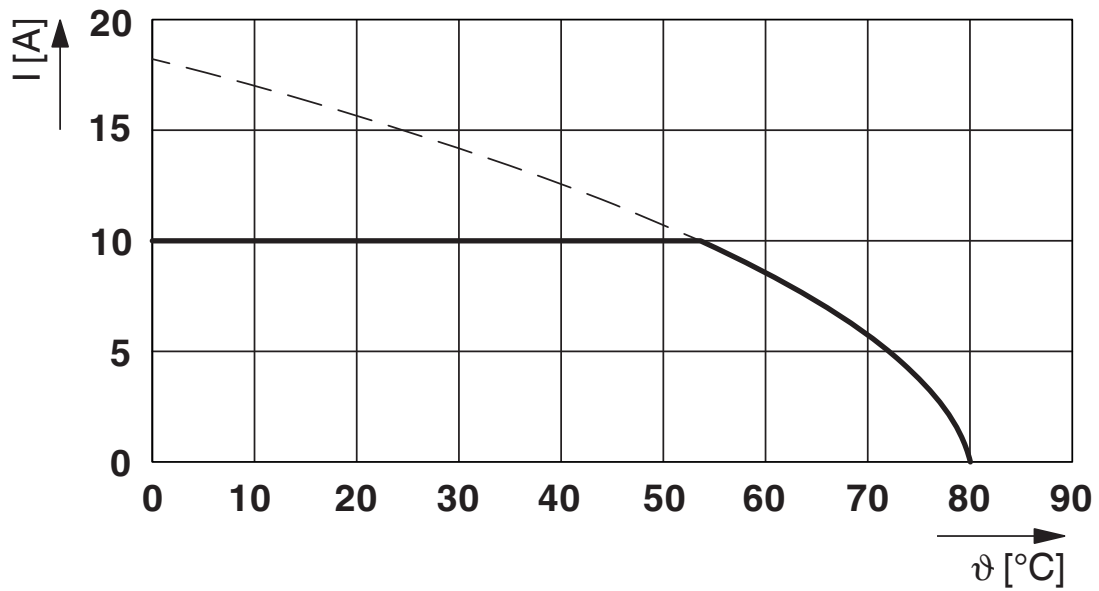


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## Drawings

Diagram



I = current strength, T = ambient temperature

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## Classifications

### ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

### ETIM

ETIM 10.0	EC003557
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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