

SAIE-M12BB-4S-H6.75TL**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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www.weidmueller.com



Weidmüller is now one of the industry's leading international providers of connectors. An important mainstay in this product family are the circular connectors, which Weidmüller groups under the product name SAI. In the development of SAI products, Weidmüller engineers have always concentrated on achieving rational, cost-effective installation concepts, and – in cooperation with major users – have supplied the markets with well-conceived products which set standards in terms of functionality and quality across the globe. The best examples are the new power distributors with S and T coded M12. These modules are characterised by particularly high currents and voltages. This enables them to also be used, for example, with three-phase motors.

General ordering data

Type	SAIE-M12BB-4S-H6.75TL
Order No.	2421970000
Version	Built-in plugs, M12, No. of poles: 4
GTIN (EAN)	4050118430677
Qty.	10 pc(s).

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Technical data**Dimensions and weights**

Net weight	20 g
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Technical data of PCB plug-in connector

Coding	B	Housing surface	nickel-plated
Housings	M12 socket	Mounting height	6.75 mm
Mounting thread	M16	No. of poles	4
Shield connection	Yes	Type of mounting	Rear panel mounting
Rated voltage		Rated voltage (text)	250 V (4-pole) / 60 V (5-pole) / 30 V (8-pole)
	250 V	Rated current	4 A (5-pole)/ 2 A (8-pole)
Rated current	4 A	Protection degree	IP67
Temperature range	-30...80 °C	Housing main material	CuZn, nickel-plated
Contact surface	Au (Gold)	Tightening torque	M12: 0.8 Nm
Connection thread	M12	Mounting torque range	1.2 Nm
Mounting thread	M16	Insulation strength	100 MΩ
Mounting onto the PCB	THT solder connection	Plugging cycles	≥ 100
Pollution severity	3 (2 within the sealed area)	Lock nut material	Nickel-plated CuZn
Contact material	CuZn		
Material of the flange-mounted housing	Nickel-plated CuZn		

Material data

Contact material	CuZn	Contact surface	Au (Gold)
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System parameters

Mounting onto the PCB	THT solder connection	Insulation strength	100 MΩ
No. of poles	4	Pin series quantity	1
Plugging cycles	≥ 100	Protection degree	IP67

Classifications

ETIM 6.0	EC002638	eClass 6.2	27-26-07-02
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09

Approvals

ROHS	Conform
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Downloads

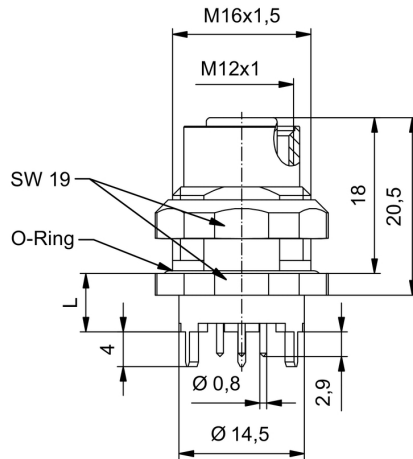
Brochure/Catalogue	FL FIELDWIRING EN
Engineering Data	STEP

SAIE-M12BB-4S-H6.75TL

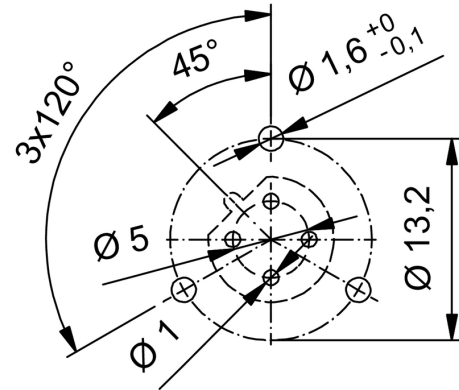
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Drawings

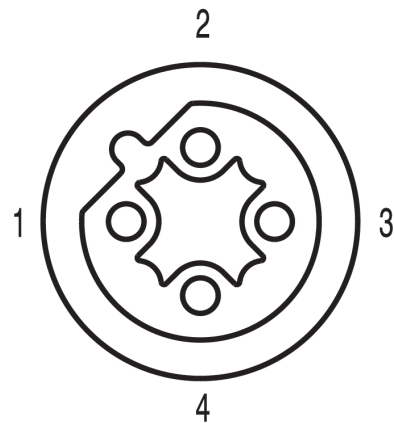
Dimensioned drawing



PCB design



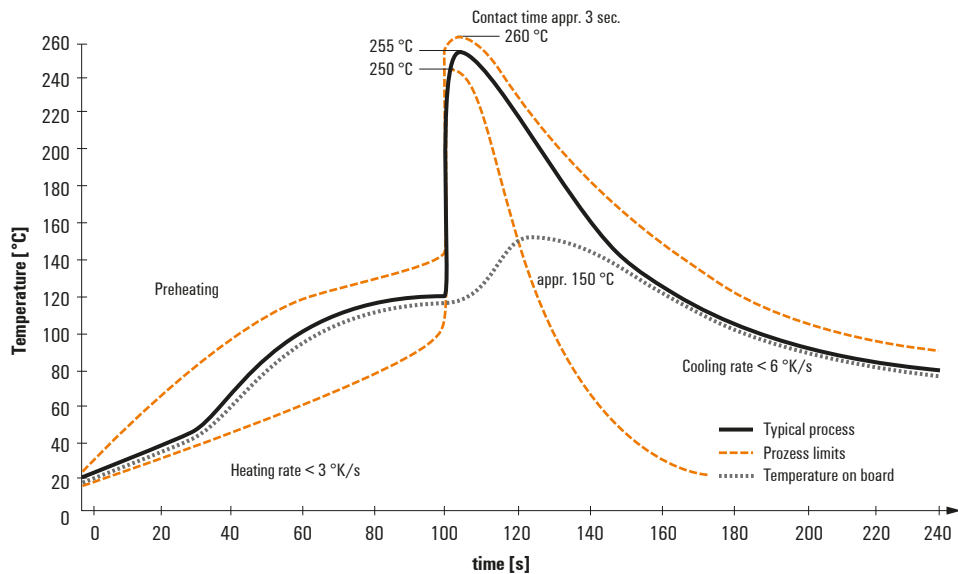
Pole scheme



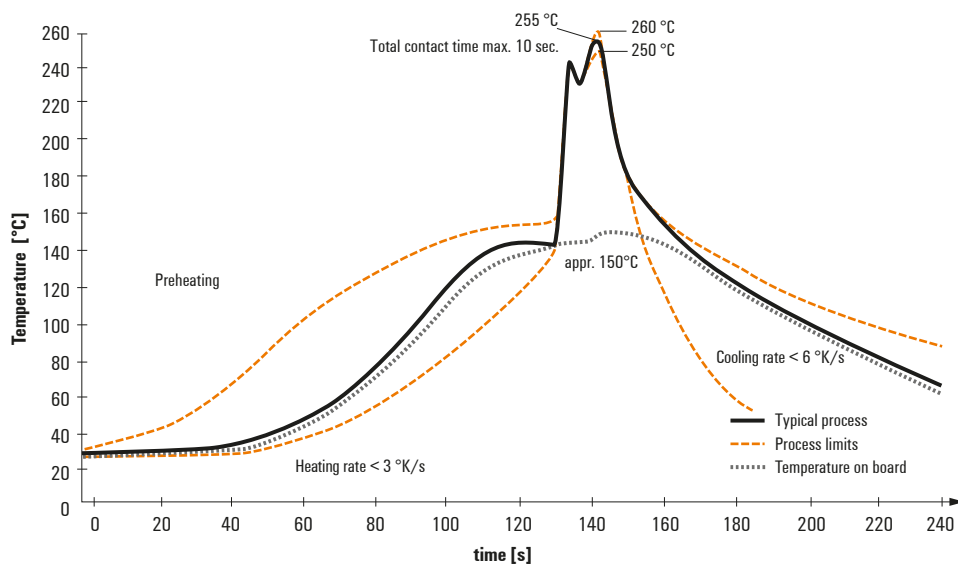
Recommended wave soldering profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260 °C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.