SL 5.08HC/05/90B 3.2AU BL BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

Similar to illustration

Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

Version	PCB plug-in connector, male header, Dovetails for fixing blocks, THT solder connection, 5.08 mm, Number of poles: 5, 90°, Solder pin length (l): 3.2 mm, Gold-plated, blue, Box
Order No.	1749960000
Type	SL 5.08HC/05/90B 3.2AU BL BX
GTIN (EAN)	4050118368833
Qty.	50 pc(s).
Product data	IEC: / 24 A UL: / 18.5 A
Packaging	Box

Creation date March 25, 2021 2:20:22 AM CET

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Technical data

Dimensions and weights

Depth	12 mm	Depth (inches)	0.472 inch
Height	11.7 mm	Height (inches)	0.461 inch
Height of lowest version	8.5 mm	Net weight	1.886 g
Width	27.16 mm	Width (inches)	1.069 inch

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 inch	Outgoing elbow	90°
Number of poles	5	Solder pin length (l)	3.2 mm
Solder pin length tolerance	+0.1 / -0.3 mm	Solder pin dimensions	d = 1.2 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0,03 mm	L1 in mm	20.32 mm
L1 in inches	0.8 inch	Pin series quantity	1
Volume resistance	≤5 mΩ	Plugging force/pole, max.	10 N
Pulling force/pole, max.	7.5 N		

Material data

Colour	blue	Colour chart (similar)	RAL 5012
Insulating material group	II	Comparative Tracking Index (CTI)	≥ 550
Contact material	CuMg	Contact surface	Gold-plated
Layer structure of solder connection	1...3 µm Ni / 2...4 µm Sn matt	Layer structure of plug contact	1...3 µm Ni / 2...4 µm Sn / 1.7...2.3 µm Au
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	24 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	21 A
Rated current, max. number of poles (Tu=40°C)	16.5 A		

Rated data acc. to CSA

Rated current (Use group B / CSA)	18.5 A	Rated current (Use group D / CSA)	10 A

Rated data acc. to UL 1059

Institute (cURus)	c US	Certificate No. (cURus)	E60693
Rated current (Use group B / UL 1059)	18.5 A	Reference to approval values	Specifications are maximum values, details - see approval certificate.

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Packing

Packaging	Box	VPE length	170 mm
VPE width	70 mm	VPE height	45 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ECLASS 9.0	27-44-04-02	ECLASS 9.1	27-44-04-02
ECLASS 10.0	27-44-04-02	ECLASS 11.0	27-46-02-01

Important note

IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	• Additional colours on request • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • P on drawing = pitch • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals	
ROHS	Conform
UL File Number Search	E60693

Downloads

Product Change Notification	EN - Change of packaging DE - Change of packaging

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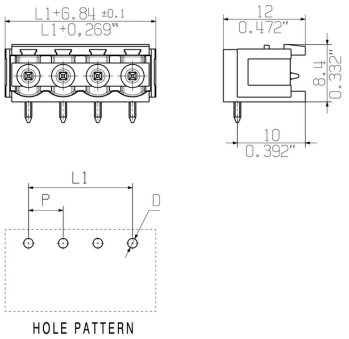
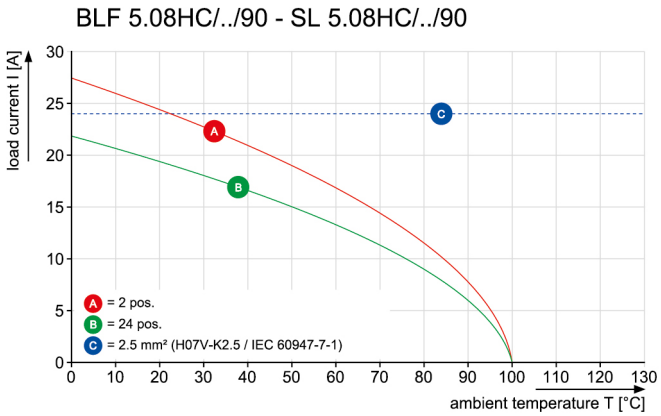
Drawings

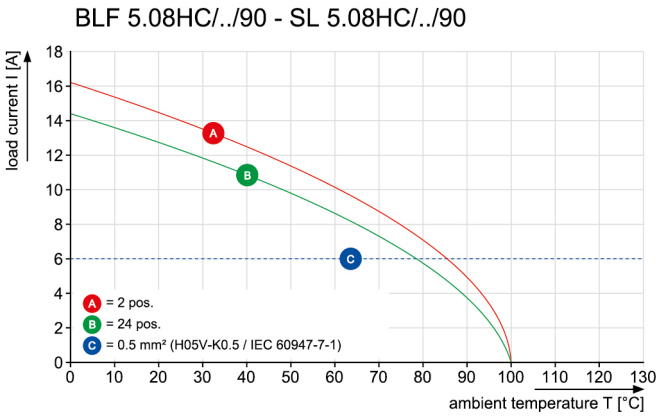
Dimensional drawing



Graph



Graph



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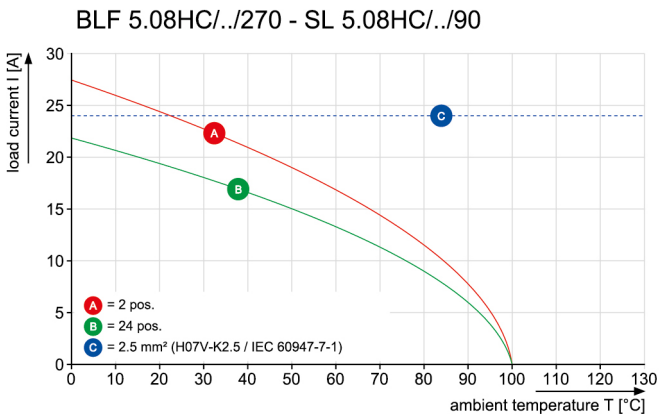

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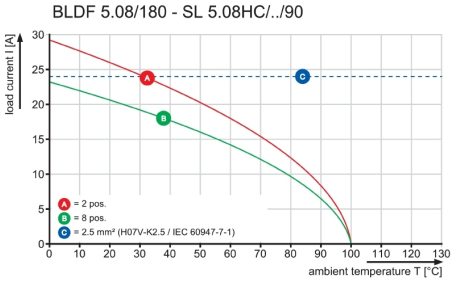

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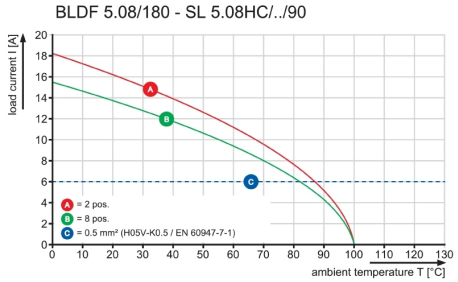

Wave Solder Profile

Recommended wave solderding profiles

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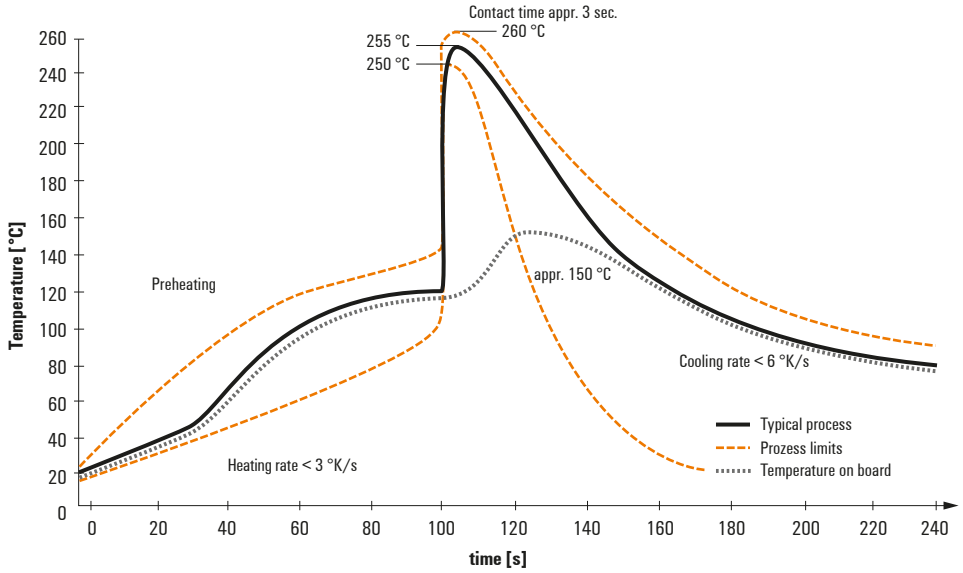
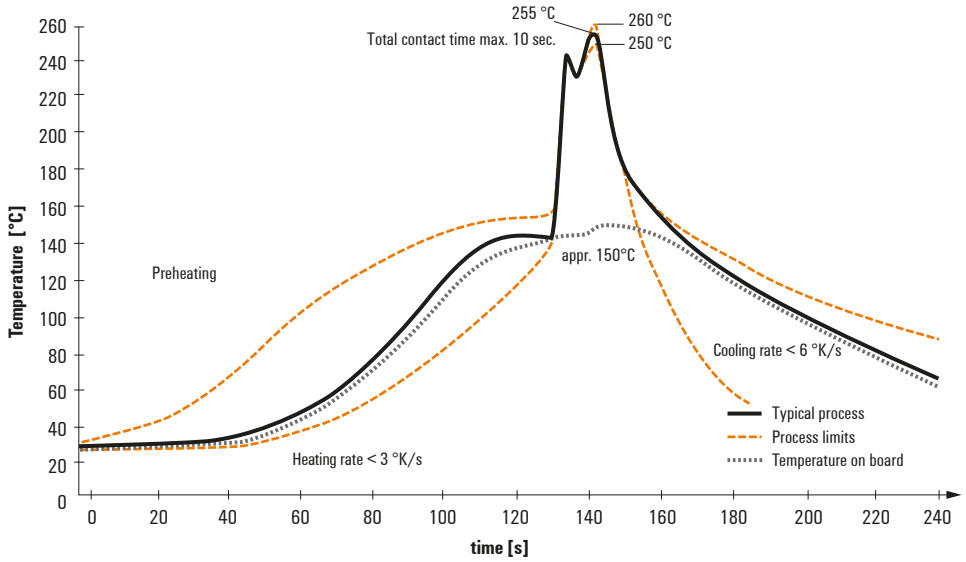
Single Wave:



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.