

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Product image**



















180° female header for the PCB with a pitch of 7.62. Meets IEC 61800-5-1 requirements and enables UL approval as per UL840 600 V. Ideal touch-safe solution for the power output and intermediate circuit applications.

The mating profile guarantees touch safety of >3 mm as per IEC61800-5-1.

Variants: without flange, with screw flange or with soldered flange.

### **General ordering data**

Version	PCB plug-in connector, female header, Flange, THT solder connection, 7.62 mm, Number of poles: 4, 180°, Solder pin length (I): 3.2 mm, tinned, black, Box
Order No.	<u>1122130000</u>
Туре	BLL 7.62HP/04/180F 3.2SN BK BX
GTIN (EAN)	4032248903184
Qty.	42 pc(s).
Product data	IEC: 630 V / 24 A UL: 300 V / 20 A
Packaging	Box

Creation date March 23, 2021 12:52:46 AM CET



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# **Technical data**

-			
Dım	ensions	and	weights

System Parameters				
Net weight	7.5 g			

Product family	OMNIMATE Power - series BL/SL 7.62HP	Type of connection	Board connection
	•		
Pitch in mm (P)	7.62 mm	Pitch in inches (P)	0.3 inch
Number of poles	4	L1 in mm	22.86 mm
L1 in inches	0.9 inch	Number of rows	1
Pin series quantity		Touch-safe protection acc. to DIN	N VDE
	1	57 106	Safe from finger touch
Touch-safe protection acc. to D	IN VDE	Can be coded	
0470	IP 20		Yes
Tightening torque for screw flai	nge, min. 0.15 Nm	Tightening torque for screw flan	ge, max. 0.25 Nm
Plugging force/pole, max.	10 N	Pulling force/pole, max.	7 N

### **Material data**

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of solder connection	23 μm Ni / 24 μm Sn	Layer structure of plug contact	
	matt		48 µm Sn hot-dip tinned
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)	24 A	Rated current, min. number of poles (Tu=40°C)	24 A
Rated current, max. number of poles (Tu=40°C)	21 A	Rated voltage for surge voltage class / pollution degree II/2	630 V
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree III/3	400 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	3 x 1s with 180 A

### Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	150 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	20 A
Rated current (Use group C / CSA)	20 A	Rated current (Use group D / CSA)	10 A



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Rated data acc. to UL 1059			
Institute (cURus)		Certificate No. (cURus)	
	C TUS		E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	150 V
Rated voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	20 A
Rated current (Use group C / UL 1059)	20 A	Rated current (Use group D / UL 1059)	10 A
Clearance distance, min.	7.2 mm	Creepage distance, min.	7.8 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
Packaging	Box	VPE length	30 mm
VPE width	135 mm	VPE height	350 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 9.0 ECLASS 10.0	27-44-04-02	ECLASS 9.1 ECLASS 11.0	27-44-04-02
	27-44-04-02	ECLASS 11.0	27-40-02-01
Important note			
IPC conformity	standards and norms and compl	veloped, manufactured and delivered according y with the assured properties in the data sheet i class 2". Further claims on the products can be e	esp. fulfill decorative properties
Notes	Additional colours on request		
	Gold-plated contact surfaces of	on request	

- Spacing between rows: see hole layout
- · 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 E60693 **UL File Number Search** 



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# **Technical data**

#### **Downloads**

Approval/Certificate/Document of	of	
Conformity	Declaration of the Manufacturer	
Engineering Data	<u>STEP</u>	
Engineering Data	EPLAN, WSCAD	

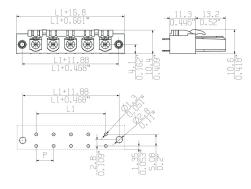
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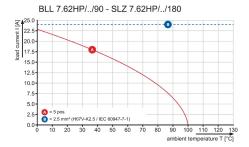
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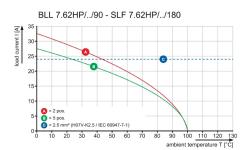
# **Drawings**

## **Dimensional drawing**

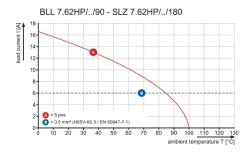


Graph Graph





## Graph



KRUG M

HELIS\_MA

LANG\_T

08.06.2018

BUCHSENLEISTE

SOCKET BLOCK

7373

Product file: BLL7.62HP

Responsible

Checked

Approved

Scale: 2:1

Supersedes: .

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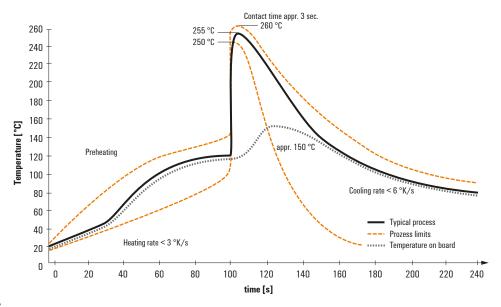
## Recommended wave solderding profiles

#### Weidmüller Interface GmbH & Co. KG

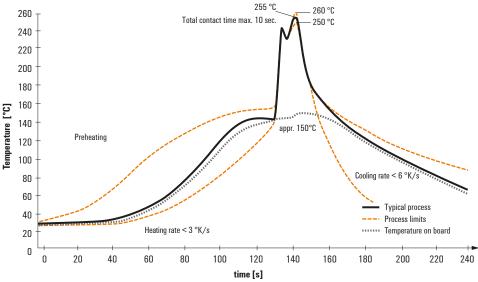
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## Single Wave:



#### **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.