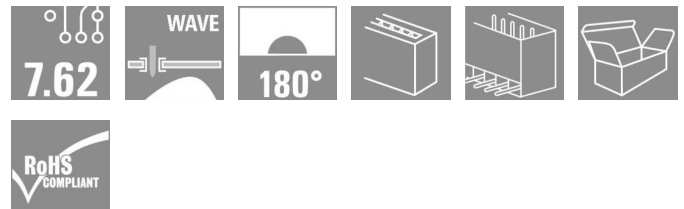


**OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Power on board - 100% safety, 100% integration,  
100% cost-effectiveness:**

The compact, efficient solution for UL-600V applications in the lower performance range.

High-performance male header for applications up to 12 kVA:

- 29 A at 400 V (IEC)
- 20 A at 600 V (UL)
- Single compartment mating profile

Assisting in device approval:

- Meets the requirements for 600 V according to UL 508 / UL840.
- Meets the increased requirements on touch safety as per IEC68100-5-1 when combined with female header BLZ 7.62 HP

The slimming diet for multiple-stage device series:  
 Reduce the size and cut costs in the high-volume lower performance range without compromising device approval!

Male header, 180° outlet direction, without flange

**General ordering data**

Type	SL 7.62HP/07/180G 3.2SN BK BX
Order No.	<a href="#">1122590000</a>
Version	PCB plug-in connector, male header, closed side, THT solder connection, 7.62 mm, No. of poles: 7, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box
GTIN (EAN)	4032248904839
Qty.	50 pc(s).
Product data	IEC: 630 V / 29 A UL: 300 V / 20 A
Packaging	Box

**OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

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**Technical data****Dimensions and weights**

Net weight 3.008 g

**System specifications**

Product family		Mounting onto the PCB	
OMNIMATE Power - series BL/SL 7.62HP		THT solder connection	
Pitch in mm (P)	7.62 mm	Pitch in inches (P)	0.3 inch
Outgoing elbow	180°	No. of poles	7
Number of solder pins per pole	1	Solder pin length (l)	3.2 mm
Solder pin dimensions	1.0 x 1.0 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)+	0,1 mm	L1 in mm	45.72 mm
L1 in inches	1.8 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Can be coded	Yes
push-in force/pole	10 N	Packaging	Box

**Material data**

Insulating material	PBT	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
CTI	≥ 200	Insulation resistance	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	Contact material	Cu-Leg
Contact surface	tinned	Layer structure of solder connection	2-3 μm Ni / 2-4 μm Sn matt
Layer structure of plug contact	2-3 μm Ni / 2-4 μm Sn matt	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %
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. no. of poles (Ta = 20°C)	29 A
Rated current, max. no. of poles (Ta = 20°C)	26 A	Rated current, min. no. of poles (Ta = 40°C)	25 A
Rated current, max. no. of poles (Ta = 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	500 V	Rated voltage for surge voltage class / pollution degree III/3	400 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 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
Clearance, min.	6.5 mm	Creepage distance, min.	8.1 mm

## OMNIMATE Power - series BL/SL 7.62HP SL 7.62HP/07/180G 3.2SN BK BX


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## Technical data

### Rated data acc. to CSA

Institute (CSA)				Certificate No. (CSA)	
				200039-1121690	
Rated voltage (Use group B)	300 V	Rated voltage (Use group C)	300 V		
Rated voltage (use group D)	600 V	Rated current (use group B)	20 A		
Rated current (use group C)	20 A	Rated current (use group D)	5 A		
Reference to approval values	Specifications are maximum values, details - see approval certificate.				

### Rated data acc. to UL 1059

Institute (cURus)				Certificate No. (cURus)	
				E60693	
Rated voltage (use group B)	300 V	Rated voltage (use group C)	300 V		
Rated voltage (use group D)	600 V	Rated current (use group B)	20 A		
Rated current (use group C)	20 A	Rated current (use group D)	5 A		
Reference to approval values	Specifications are maximum values, details - see approval certificate.				

### Classifications

ETIM 4.0	EC002637	ETIM 5.0	EC002637
ETIM 6.0	EC002637	eClass 6.2	27-26-07-04
eClass 7.1	27-44-04-02	eClass 8.1	27-44-04-02
eClass 9.0	27-44-04-02		

### Notes

Notes	<ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Gold-plated contact surfaces on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• P on drawing = pitch</li> <li>• 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.</li> </ul>
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IPC conformity	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.
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### Approvals

Approvals	
ROHS	Conform

**Data sheet****OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

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**Technical data****Downloads**

EDA Layout Library (Mentor Graphics  
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[Select your download](#)

Engineering-Daten

[EPLAN](#)

Safety notice

[Safety indication](#)

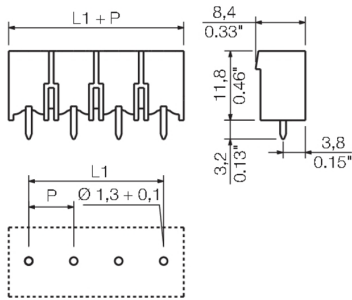
[3-D model](#)

**Data sheet**

**OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

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**Drawings**



**OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**
**BLF 7.62HP/180F**


180° female header with PUSH-IN connection technology for field wiring in 2.5 mm<sup>2</sup> with a 7.62 pitch. Meets the requirements as per UL1059 600 V class C and IEC 61800-5-1  
 Variants: without flange, external flange, release latch.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 7.62HP/07/180F SN OR BX	<a href="#">1230270000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, PUSH IN, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4050118013870	24 pc(s).	IEC: 1000 V / 24 A / 0.5 - 2.5 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box
BLF 7.62HP/07/180F SN BK BX	<a href="#">1227510000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, PUSH IN, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4050118011869	24 pc(s).	IEC: 1000 V / 24 A / 0.5 - 2.5 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box

**OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

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Fax: +49 5231 14-292083  
www.weidmueller.com

**Mating connector (conditionally pluggable)**
**BLZ 7.62HP/180LR**

**Power on board - 100% safety, 100% integration, 100% cost-effectiveness:**

The compact, efficient solution for UL-600V applications in the lower performance range up to 12 kVA

- 29 A at 400 V (IEC)
- 20 A at 600 V (UL)
- Single compartment mating profile
- Clamping range: 0.08 - 4 mm<sup>2</sup> / AWG 28 - 12

Assisting in device approval:

- Meets the requirements for 600 V according to UL 508 / UL840.
- Meets the increased requirements on touch protection as per IEC68100-5-1

The slimming diet for multiple-stage device series:  
Reduce the size and cut costs in the high-volume lower performance range without compromising device approval!

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 7.62HP/08/180LR SN BK BX	<a href="#">1164980000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248954773	20 pc(s).	IEC: / 0.2 - 4 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box
BLZ 7.62HP/07/180LR SN BK BX	<a href="#">1164970000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248955053	20 pc(s).	IEC: / 0.2 - 4 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box
BLZ 7.62HP/07/180LR SN OR BX	<a href="#">1164880000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248954940	20 pc(s).	IEC: / 0.2 - 4 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box
BLZ 7.62HP/08/180LR SN OR BX	<a href="#">1164890000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 8, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248954926	20 pc(s).	IEC: / 0.2 - 4 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box

**OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**
**BLF 7.62HP/180LR**


180° female header with PUSH-IN connection technology for field wiring in 2.5 mm<sup>2</sup> with a 7.62 pitch. Meets the requirements as per UL1059 600 V class C and IEC 61800-5-1  
Variants: without flange, external flange, release latch.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 7.62HP/07/180LR SN BK BX	<a href="#">1227430000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, PUSH IN, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4050118011784 24 pc(s).		IEC: 1000 V / 24 A / 0.5 - 2.5 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box
2014-05-20 BLF 7.62HP/07/180LR SN OR BX	<a href="#">1230330000</a>		4050118014143 24 pc(s).		IEC: 1000 V / 24 A / 0.5 - 2.5 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	

**OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

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**Mating connector (conditionally pluggable)**
**BLZ 7.62HP/180F**

**Power on board - 100% safety, 100% integration, 100% cost-effectiveness:**

The compact, efficient solution for UL-600V applications in the lower performance range up to 12 kVA

- 29 A at 400 V (IEC)
- 20 A at 600 V (UL)
- Single compartment mating profile
- Clamping range: 0.08 - 4 mm<sup>2</sup> / AWG 28 - 12

Assisting in device approval:

- Meets the requirements for 600 V according to UL 508 / UL840.
- Meets the increased requirements on touch protection as per IEC68100-5-1

The slimming diet for multiple-stage device series:  
Reduce the size and cut costs in the high-volume lower performance range without compromising device approval!

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 7.62HP/07/180F SN OR BX	<a href="#">1095840000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248868957	20 pc(s).	IEC: 630 V / 29 A / 0.2 - 4 mm <sup>2</sup> UL: 600 V / 20 A / AWG 28 - AWG 12	Box
BLZ 7.62HP/07/180F SN BK BX	<a href="#">1095730000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248868735	20 pc(s).	IEC: 630 V / 29 A / 0.2 - 4 mm <sup>2</sup> UL: 600 V / 20 A / AWG 28 - AWG 12	Box

**OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

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**Mating connector (fully pluggable)**
**BLZ 7.62HP/180**

**Power on board - 100% safety, 100% integration, 100% cost-effectiveness:**

The compact, efficient solution for UL-600V applications in the lower performance range.

High-performance female header for applications up to 12 kVA:

- 29 A with 400 V (IEC)
- 20 A at 600 V (UL)
- 0.08 - 4 mm<sup>2</sup> / AWG 28 - 12

Assisting in device approval:

- Meets the requirements of 600 V according to UL 508 / UL 840.
- When plugged, meets the increased requirements on touch safety as per IEC 68100-5-1

The slimming diet for multiple-stage device series:

Reduce the size and cut costs in the high-volume lower performance range without compromising device approval!

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZ 7.62HP/07/180 SN BK BX	<a href="#">1059610000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248807567	50 pc(s).	IEC: 630 V / 29 A / 0.2 - 4 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box
BLZ 7.62HP/07/180 SN OR BX	<a href="#">1980530000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 4 mm <sup>2</sup> , Box	4032248675586	50 pc(s).	IEC: 630 V / 29 A / 0.2 - 4 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box

**OMNIMATE Power - series BL/SL 7.62HP  
SL 7.62HP/07/180G 3.2SN BK BX**

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**Mating connector (fully pluggable)**
**BLF 7.62HP/180**


180° female header with PUSH-IN connection technology for field wiring in 2.5 mm<sup>2</sup> with a 7.62 pitch. Meets the requirements as per UL1059 600 V class C and IEC 61800-5-1  
Variants: without flange, external flange, release latch.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLF 7.62HP/07/180 SN OR BX	<a href="#">1230190000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, PUSH IN, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4050118013962	30 pc(s).	IEC: 1000 V / 24 A / 0.5 - 2.5 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box
BLF 7.62HP/07/180 SN BK BX	<a href="#">1227350000</a>	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, PUSH IN, Clamping range, rated connection, max.: 2.5 mm <sup>2</sup> , Box	4050118011487	30 pc(s).	IEC: 1000 V / 24 A / 0.5 - 2.5 mm <sup>2</sup> UL: 600 V / 20 A / AWG 20 - AWG 12	Box


# Addresses worldwide


Let's connect.

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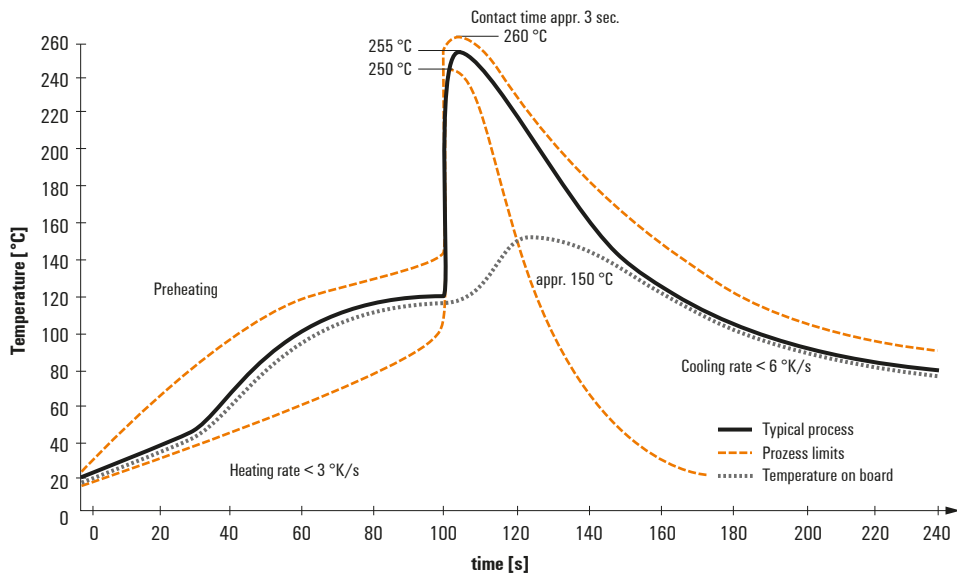
**ZM Zambia**  
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**ZW Zimbabwe**  
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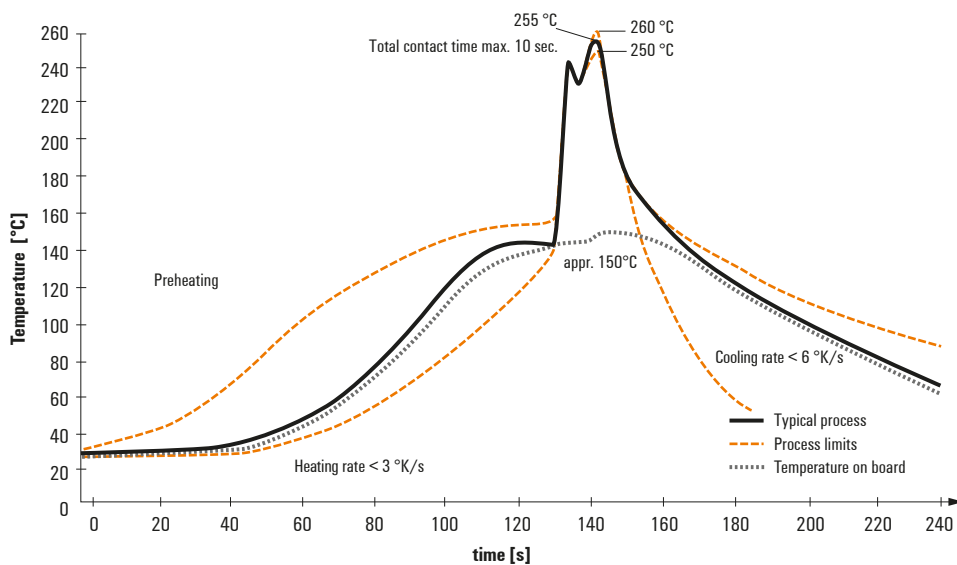
## Recommended wave soldering profiles

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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.