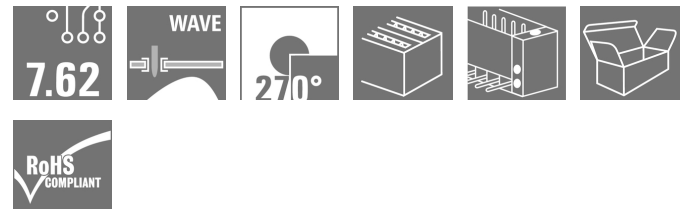


**OMNIMATE Power - series BV/SV 7.62HP
SVD 7.62HP/12/270F 3.2SN BK BX**

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

Product image


Similar to illustration

Double-row high-current, high-performance pin headers, with or without flange, for fast, tool-free locking. Optimised for "book-size modules" measuring 50mm wide and above. With integrated mounting option for mounting to the housing wall. Exceptional reliability and operational safety thanks to 100% failsafe mating profile, unique coding and optional additional screw mounting in the flange.

General ordering data

Type	SVD 7.62HP/12/270F 3.2SN BK BX
Order No.	1523990000
Version	PCB plug-in connector, male header, Flange, THT solder connection, 7.62 mm, No. of poles: 12, 270°, Solder pin length (l): 3.2 mm, tinned, black, Box
GTIN (EAN)	4050118329803
Qty.	15 pc(s).
Product data	IEC: 1000 V / 47 A UL: 300 V / 30 A
Packaging	Box

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Technical data
Dimensions and weights

Height	41.9 mm	Height (inches)	1.65 inch
Height of lowest version	38.7 mm	Depth	48.9 mm
Depth (inches)	1.925 inch	Net weight	65.51 g

System specifications

Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	Outgoing elbow	270°
No. of poles	12	Number of solder pins per pole	3
Solder pin length (l)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Tolerance of solder pin position	± 0.1 mm	Solder pin dimensions	0.8 x 1.0 mm
Solder pin dimensions = d tolerance	+0.1 / -0.1 mm	Solder eyelet hole diameter (D)	1.4 mm
Solder eyelet hole diameter tolerance (D)+ 0,1 mm		L1 in mm	38.1 mm
L1 in inches	1.5 inch	Number of rows	2
Pin series quantity	2	Touch-safe protection acc. to DIN VDE 57 106	Touch-safe above the printed circuit board
Touch-safe protection acc. to DIN VDE 0470	IP 20	Volume resistance	≤ 2mΩ
Can be coded	Yes	Plugging cycles	25

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
CTI	≥ 600	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	Copper alloy	Contact surface	tinned
Tinning type	matt	Layer structure of solder connection	1-3 µm Ni / 4-8 µm Sn matt
Layer structure of plug contact	4-8 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.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	47 A
Rated current, max. no. of poles (Tu=20°C)	47 A	Rated current, min. no. of poles (Tu=40°C)	42 A
Rated current, max. no. of poles (Tu=40°C)	42 A	Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree III/3	630 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 mit 192 A
Clearance, min.	6.9 mm	Creepage distance, min.	9.6 mm

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Technical data**Rated data acc. to CSA**

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	300 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	25 A
Rated current (Use group C / CSA)	25 A	Rated current (Use group D / CSA)	5 A

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use group B / UL 1059)	30 A
Rated current (Use group C / UL 1059)	30 A	Rated current (Use group D / UL 1059)	5 A

Reference to approval values

Specifications are
maximum values, details -
see approval certificate.

Packing

Packaging	Box	VPE length	0
VPE width	0	VPE height	0

Classifications

ETIM 4.0	EC002637	ETIM 5.0	EC002637
ETIM 6.0	EC002637	eClass 6.2	27-26-07-04
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02

Notes

Notes

- Additional colours 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.

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.

Approvals

Approvals



ROHS

Conform

OMNIMATE Power - series BV/SV 7.62HP SVD 7.62HP/12/270F 3.2SN BK BX

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Technical data

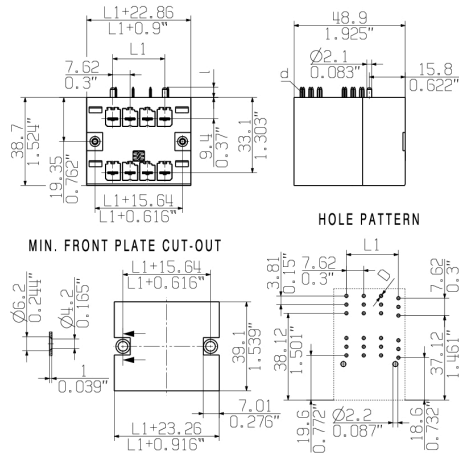
Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL HEATING ELECTR EN FL APPL INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering Data	STEP
Motion controllers white paper	Download Whitepaper
White Paper UL 600 V	Download Whitepaper

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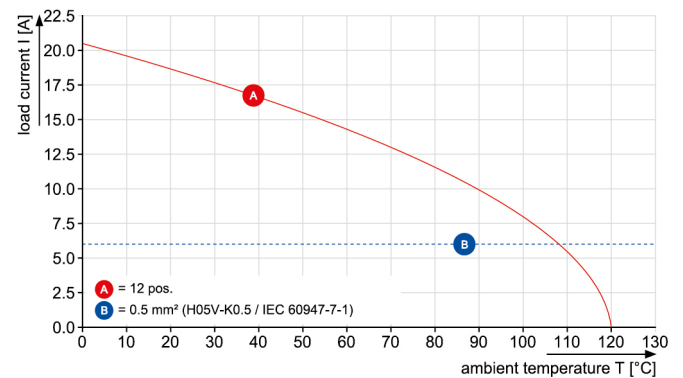
Drawings

Dimensional drawing



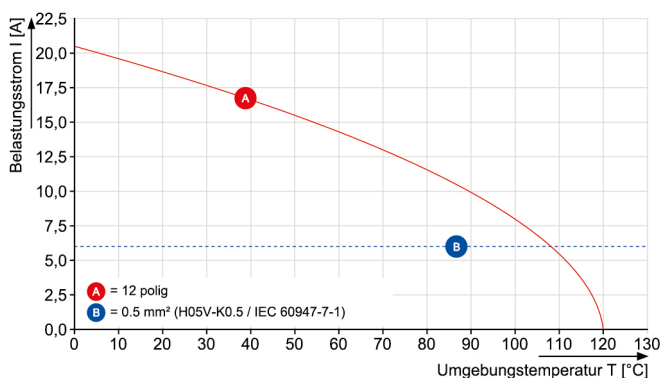
Graph

BVZ 7.62HP/./180 - SVD 7.62HP/./270



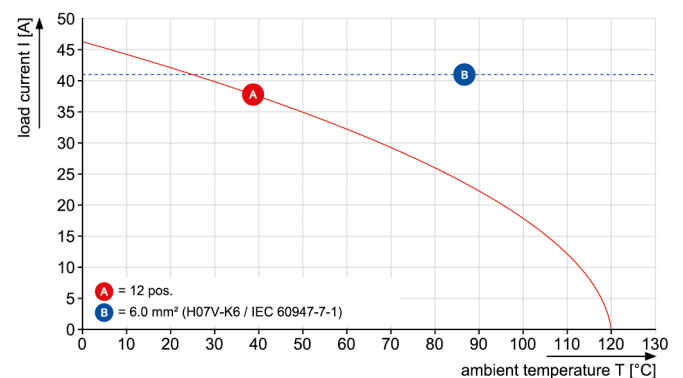
Graph

BVZ 7.62HP/./180 - SVD 7.62HP/./270

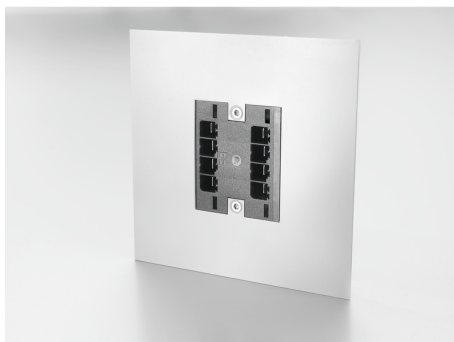


Graph

BVZ 7.62HP/./180 - SVD 7.62HP/./270

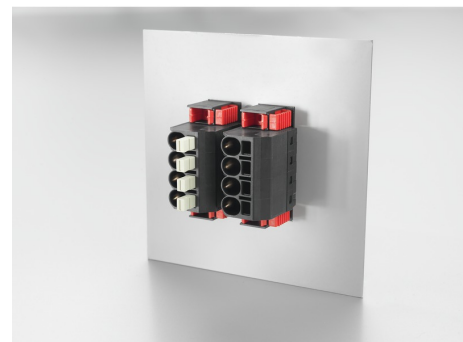


Product benefits



High component density
Small and compact pitch

Product benefits



High component density
Small and compact pitch

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Drawings

Product benefits



Space-saving power male header
Through PUSH IN connection system

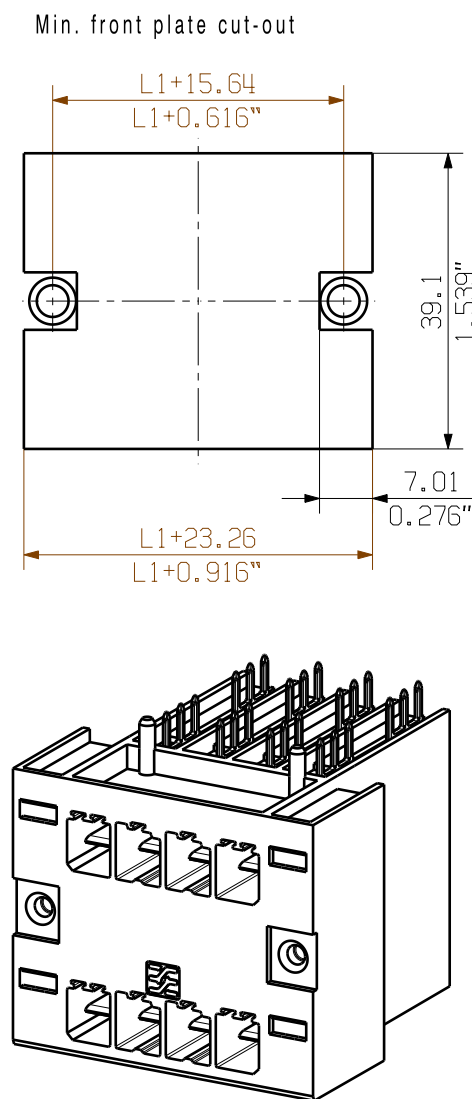
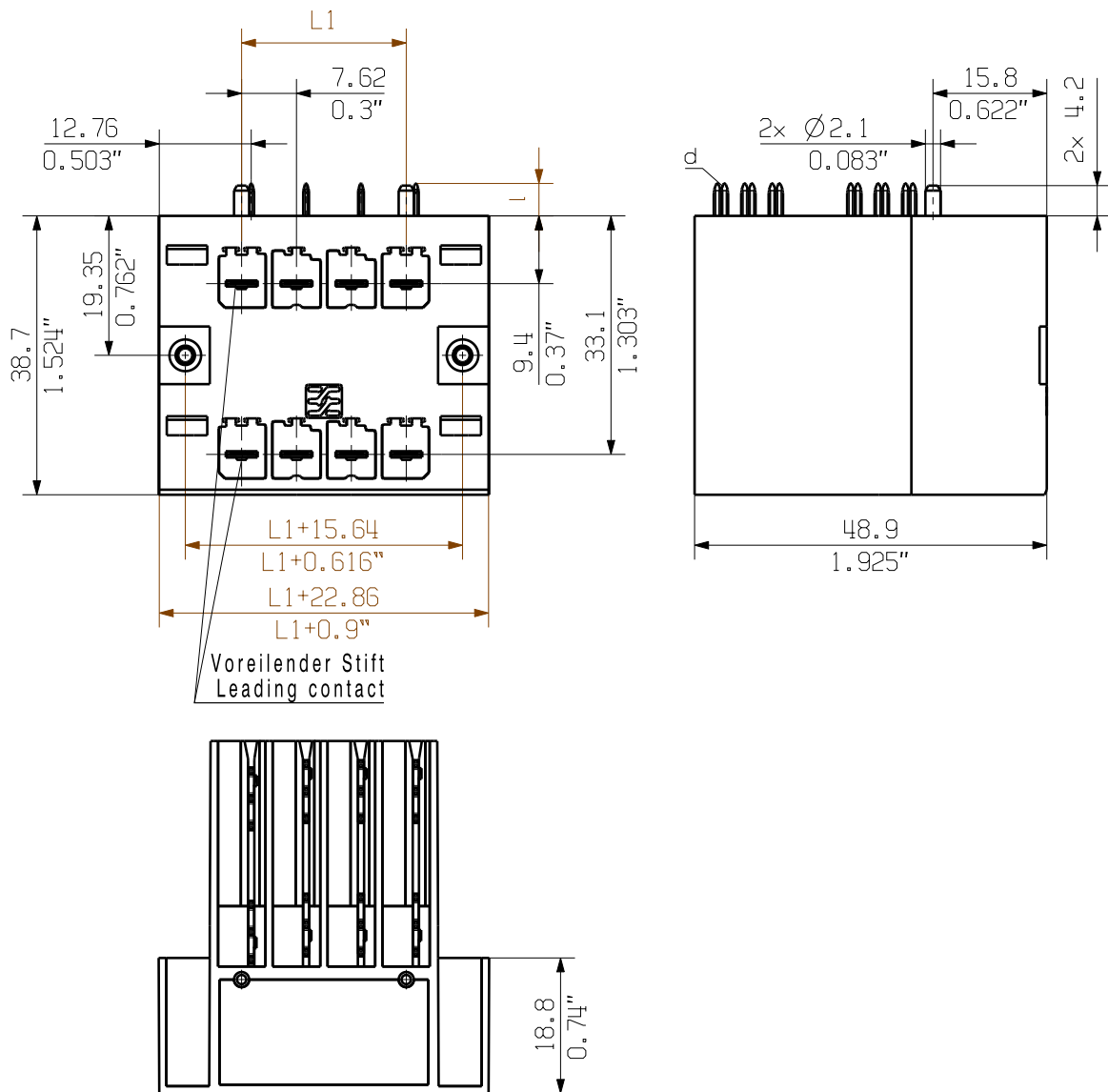
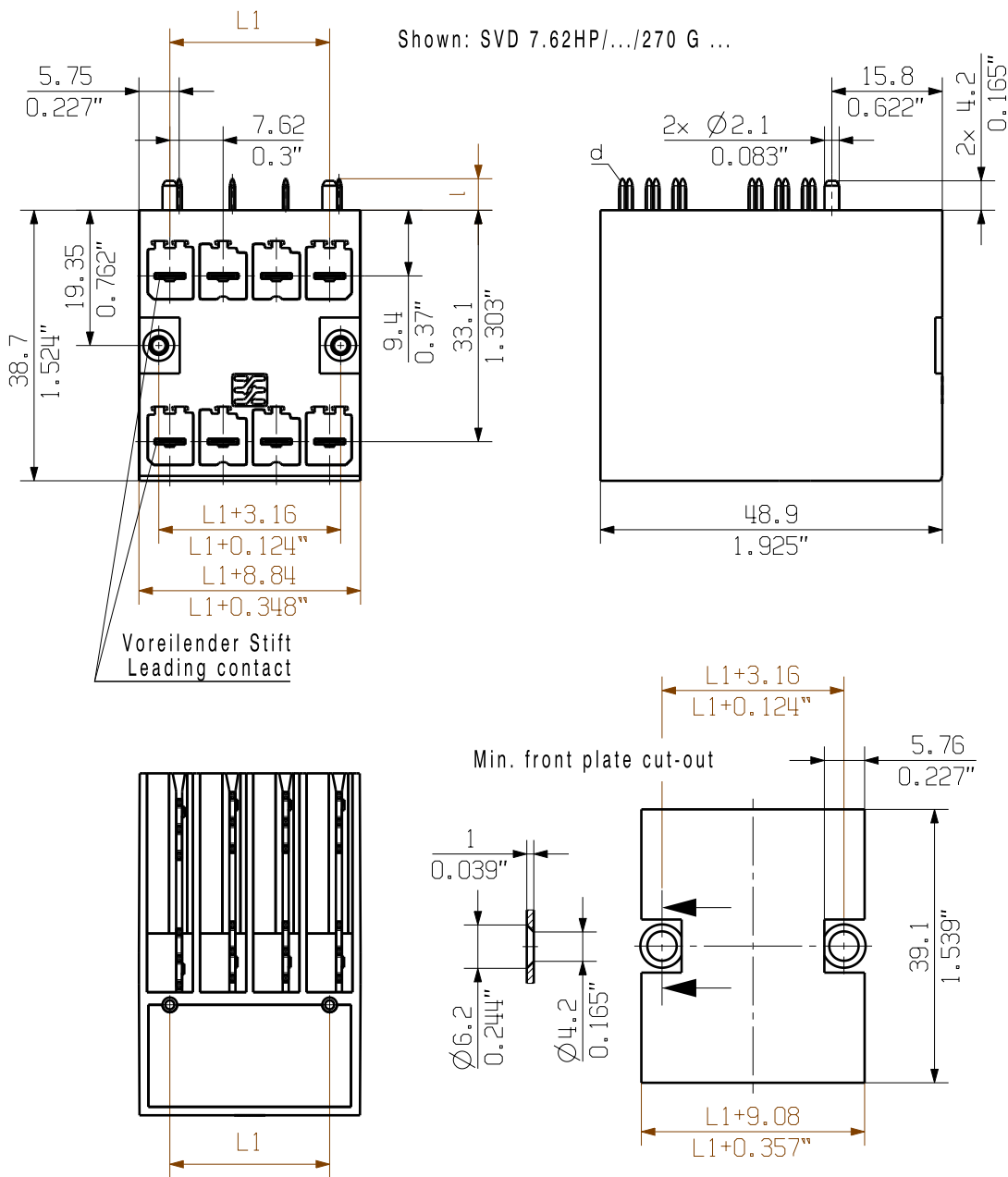
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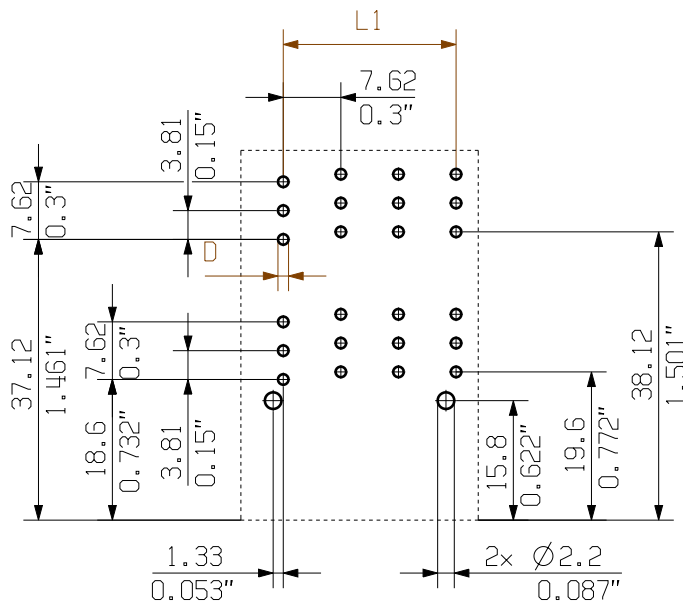
Dimensions without tolerances are no check dimensions

Allgemeinguetliche Kundenzeichnung, aktueller Stand nur auf Anfrage
General customer drawing, topical version only if required

The English version is binding



Hole pattern Fuer beide Varianten
For both types



For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.
The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application.
Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

Empfohlene Senkkopfschraube EJOT DELTA PT
Recommended counter screw WN 5454 25x12 4269112801

D= Ø1.4 +0.1
0.055"
d= 0.8x1.0
0.031"x0.039"

4.5	0.177
3.2	0.126
l [mm]	l [inch]

12	38.10	1.5
10	30.48	1.2
8	22.86	0.9
6	15.24	0.6
4	7.62	0.3
n Polzahl Poles	L1 [mm]	L1 [inch]

General tolerance: DIN ISO 2768-mK		106919/0 02.08.18 HELIS_MA 00		Cat.no.: .	
RoHS COMPLIANT		Modification		Weidmüller	
Scale: 1/1		Drawn	Date	Name	SVD 7.62HP/.../270... STIFTELEISTE MALE HEADER
Supersedes: .		Responsible	18.09.2014	FRIELING_L	
		Checked	03.08.2018	HELIS_MA	
		Approved		NOLTE_S	Product file: SVD 7.62HP
		Sheet 03 of 06 sheets			7409

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.