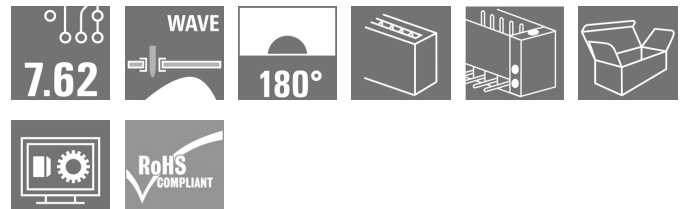


SV 7.62HP/05/180MF2 3.5SN BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

180° male header with middle flange with a 7.62 pitch.
Meets the requirements of IEC 61800-5-1 and enables
UL approval as per UL840 600 V.

Without a female header, the mating profile guarantees
minimum touch safety of >3 mm with 20 N pressure on
the test finger.

The automatically locking middle flange which can op-
tionally also be screwed, reduces space requirements by
one pitch width in comparison with conventional solu-
tions.

On request: available with screw flange or without flange.

General ordering data

Version	PCB plug-in connector, male header, closed side, Middle flange, THT solder connection, 7.62 mm, Number of poles: 5, 180°, Solder pin length (l): 3.5 mm, tinned, black, Box
Order No.	1464320000
Type	SV 7.62HP/05/180MF2 3.5SN BK BX
GTIN (EAN)	4050118270952
Qty.	36 pc(s).
Product data	IEC: 1000 V / 57 A UL: 300 V / 40.5 A
Packaging	Box

Creation date May 21, 2024 4:17:59 AM CEST

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Technical data

Dimensions and weights

Depth	11.4 mm	Depth (inches)	0.449 inch
Height	31.8 mm	Height (inches)	1.252 inch
Height of lowest version	28.3 mm	Width	45.72 mm
Width (inches)	1.8 inch	Net weight	10.565 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 "		
Outgoing elbow	180°		
Number of poles	5		
Number of solder pins per pole	2		
Solder pin length (l)	3.5 mm		
Solder pin length tolerance	+0.1 / -0.3 mm		
Solder pin dimensions	0.8 x 1.0 mm		
Solder eyelet hole diameter (D)	1.3 mm		
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm		
L1 in mm	38.1 mm		
L1 in inches	1.5 "		
Number of rows	1		
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		
Protection degree	IP20, when fully mounted		
Volume resistance	2.00 mΩ		
Can be coded	Yes		
Plugging cycles	25		
Tightening torque	Torque type	Screw flange	
	Usage information	Thickness	nominal 1.6 mm
			nominal 3.2 mm
		Tightening torque	min. 0.65 Nm
			max. 0.85 Nm
		Recommended screw	Part number
			Screw type EJOT Delta PT 30x10 or similar
		Thickness	nominal 4.8 mm
			min. 0.8 Nm
		Tightening torque	max. 1 Nm
		Recommended screw	Part number
			Screw type EJOT Delta PT 30x12 or similar

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Technical data

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of solder connection	1...3 µm Ni / 4...6 µm Sn matt	Layer structure of plug contact	1...3 µm Ni / 4...6 µm Sn matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	130 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	130 °C


Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	57 A
Rated current, max. number of poles (Tu=20°C)	41 A	Rated current, min. number of poles (Tu=40°C)	41 A
Rated current, max. number of poles (Tu=40°C)	41 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 with 420 A
Clearance, min.	6.9 mm	Creepage distance, min.	9.6 mm

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	300 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	35 A
Rated current (Use group C / CSA)	35 A	Rated current (Use group D / CSA)	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 / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	600 V	Rated voltage (Use group F / UL 1059)	40.5 V
Rated current (Use group B / UL 1059)	40.5 A	Rated current (Use group C / UL 1059)	40.5 A
Rated current (Use group D / UL 1059)	5 A	Rated current (Use group F / UL 1059)	744 A
Clearance distance, min.	6.9 mm	Creepage distance, min.	9.6 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data

Packing

Packaging	Box	VPE length	338 mm
VPE width	130 mm	VPE height	33 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	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
ECLASS 12.0	27-46-02-01	ECLASS 13.0	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	<ul style="list-style-type: none"> • Additional variants 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. • In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load • Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

SV 7.62HP/05/180MF2 3.5SN BK BX

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Technical data

Downloads

Approval/Certificate/Document of Con- formity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	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 PO OMNIMATE EN

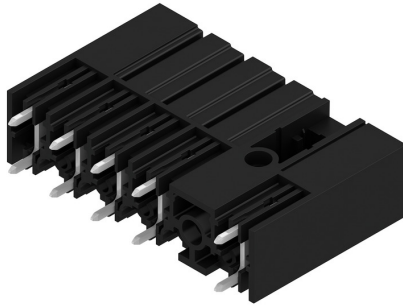
SV 7.62HP/05/180MF2 3.5SN BK BX

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 D-32758 Detmold
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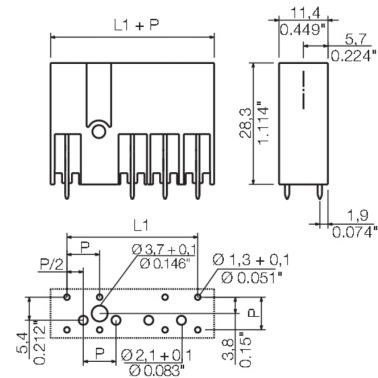
www.weidmueller.com


Drawings

Product image



Dimensional drawing



6	M(S)F6	o	o	o	o	o	X	o
6	M(S)F5	o	o	o	o	X	o	o
6	M(S)F4	o	o	o	X	o	o	o
6	M(S)F3	o	o	X	o	o	o	o
6	M(S)F2	o	X	o	o	o	o	o
5	M(S)F5	o	o	o	o	X	o	
5	M(S)F4	o	o	o	X	o	o	
5	M(S)F3	o	o	X	o	o	o	
5	M(S)F2	o	X	o	o	o	o	
4	M(S)F4	o	o	o	X	o		
4	M(S)F3	o	o	X	o	o		
4	M(S)F2	o	X	o	o	o		
3	M(S)F3	o	o	X	o			
3	M(S)F2	o	X	o	o			
2	M(S)F2	o	X	o				
NO OF POLES	X = MIDDLE FLANGE POSITION	1	2	3	4	5	6	7
								

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Accessories

Coding elements



The pluggable connections for power electronics - optimised for modern drive technologies, e.g. motor starters, frequency converters and servo-controllers.

OMNIMATE Power sets the new standard – with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

The three product lines offer you further advantages:

- Application-oriented scalability: from the compact 4 mm² connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm² connector for 76 A (IEC) or 54 A (UL)
- Unlimited usage up to 1,000 V (IEC) or 600 V (UL)
- A variety of application optimised mounting options

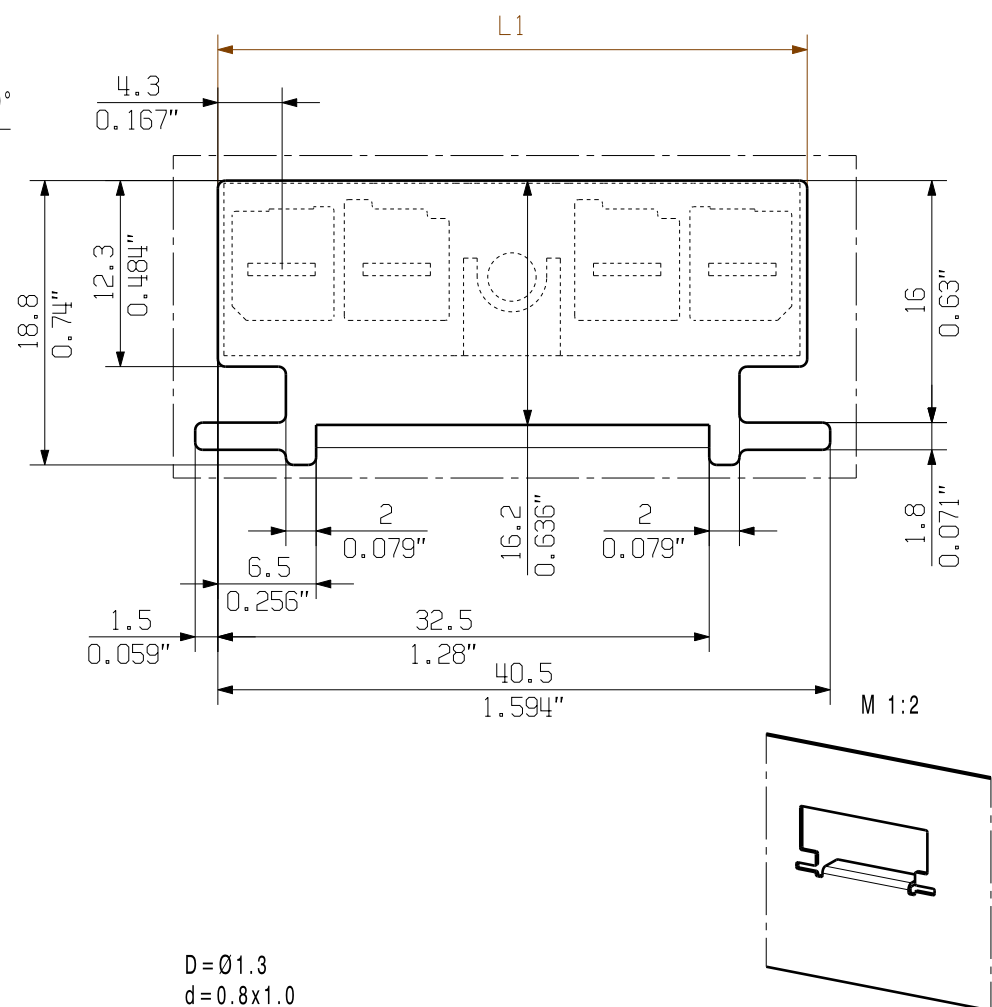
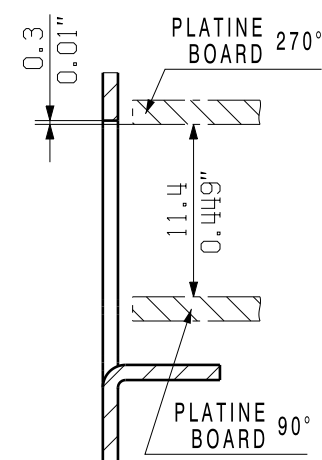
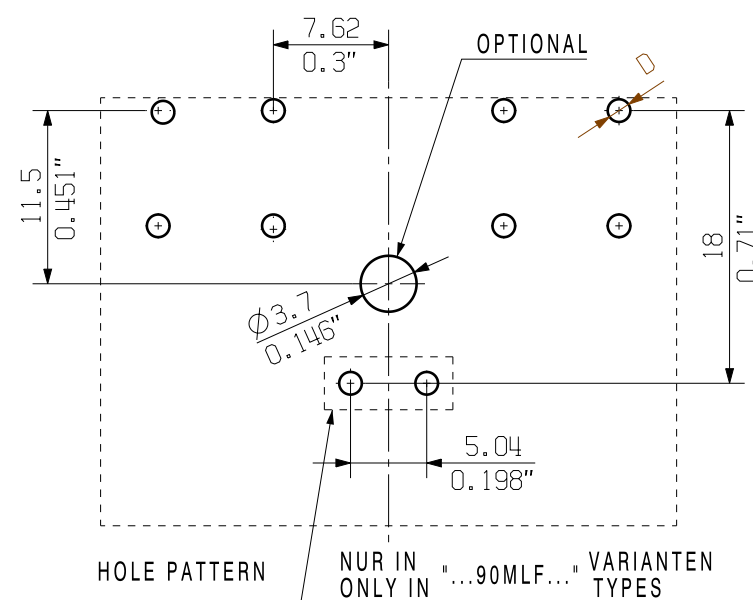
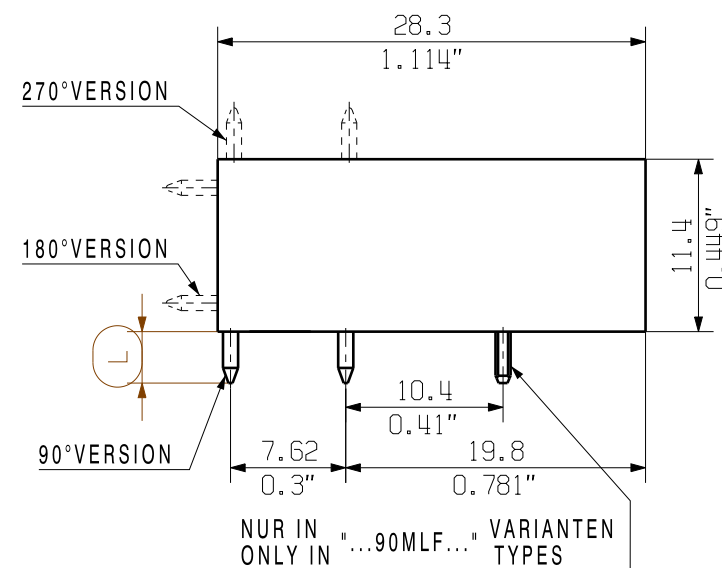
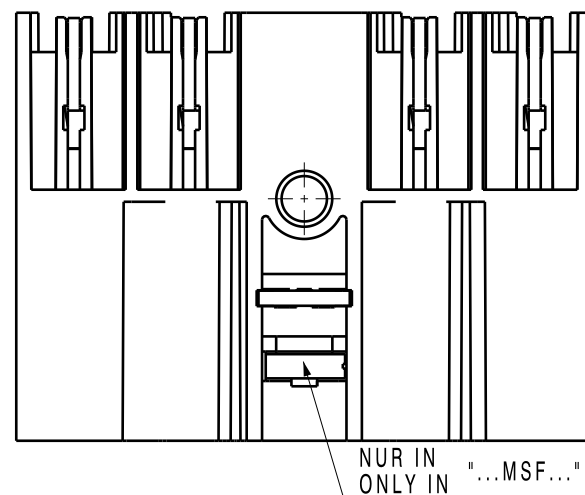
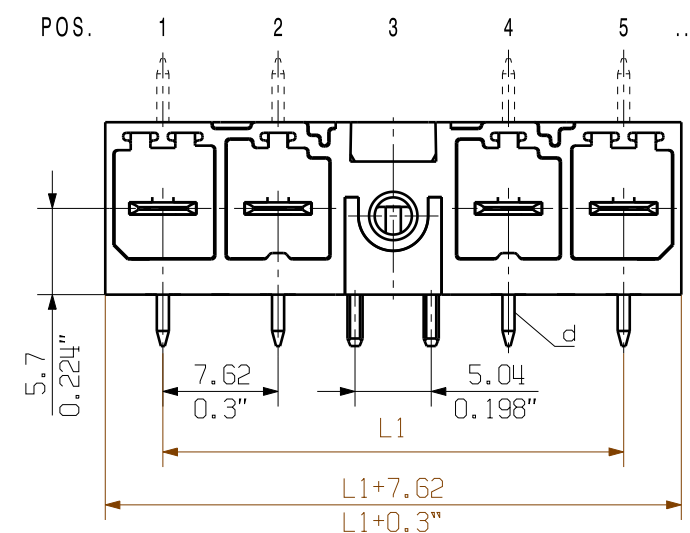
Our Service:

Design your individual connectors simply by using the

General ordering data

Type	BV/SV 7.62HP KO	Version	Product data	Packaging
Order No.	1937590000	PCB plug-in connector, Accessories, Coding element, black, Number of poles: 1		Box
GTIN (EAN)	4032248608881			
Qty.	50 pc(s).			
Type	VDS180 SV7.62	Version	Product data	Packaging
Order No.	1853940000	PCB plug-in connector, Accessories, black, Number of poles: 1		Box
GTIN (EAN)	4032248389513			
Qty.	50 pc(s).			

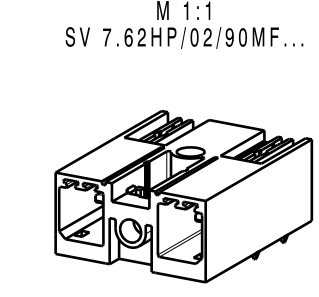
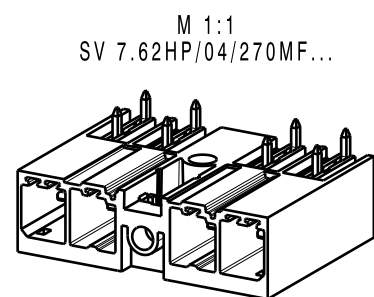
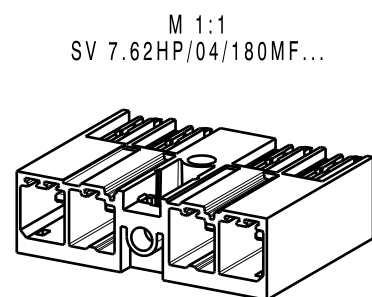
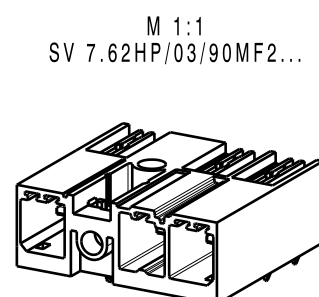
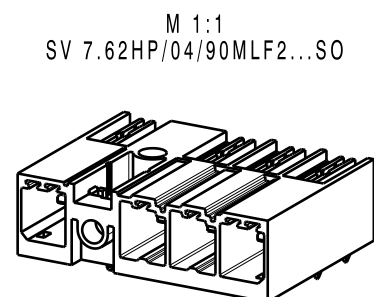
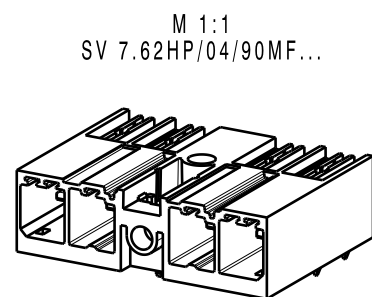
SHOWN: SV 7.62HP/04/90MSF


$$D = \emptyset 1.3$$
$$d = 0.8 \times 1.0$$

W	SV 7.62HP/08/...M(S/L)F5	8	60.92	2.34					MF					
	SV 7.62HP/06/...M(S/L)F6	6	45.72	1.80						MF				
	SV 7.62HP/06/...M(S/L)F5								MF					
	SV 7.62HP/06/...M(S/L)F4							MF						
	SV 7.62HP/06/...M(S/L)F3						MF							
	SV 7.62HP/06/...M(S/L)F2					MF								
	SV 7.62HP/05/...M(S/L)F5				5	38.10	1.50					MF		
	SV 7.62HP/05/...M(S/L)F4							MF						
	SV 7.62HP/05/...M(S/L)F3			MF										
	SV 7.62HP/05/...M(S/L)F2		MF											
	SV 7.62HP/04/...M(S/L)F4	4	30.48	1.20				MF						
	SV 7.62HP/04/...M(S/L)F3						MF							
	SV 7.62HP/04/...M(S/L)F2					MF								
	SV 7.62HP/03/...M(S/L)F3	3	22.86	0.90			MF							
	SV 7.62HP/03/...M(S/L)F2					MF								
	SV 7.62HP/02/...M(S/L)F2	2	15.24	0.60		MF								
	description	n	no of poles	L1 [mm]	L1 [inch]	1	2	3	4	5	6	7	8	9
						position MF								

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.



3.5	+0.1
	-0.3
Stiftlänge/ pin length L	Toleranz/ tolerance

GENERAL TOLERANCE:
DIN ISO 2768-m



Scale: 2:1

Supersedes: .

100459/5		00
12.06.18 HELIS_MA		
Modification		
	Date	
Drawn	24.02.2009	
Responsible		
Checked	10.07.2018	
Approved		

Weidmüller 

3 49530 **19**
Drawing no. Issue no.
Sheet 01 of 01 sheets

SV 7.62HP...M(S/L)F...
STIFTELEISTE
MALE HEADER

Product file: SV/BVZ 7.62HP

7340

Recommended wave soldering profiles

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

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.