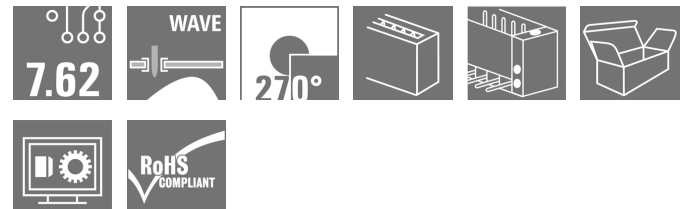


**OMNIMATE Power - series BV/SV 7.62HP
SV 7.62HP/04/270MF2 3.5SN BK BX**

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

270° 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
 optionally also be screwed, reduces space requirements
 by one pitch width in comparison with conventional
 solutions.

On request: available with screw flange or without flange.

General ordering data

Type	SV 7.62HP/04/270MF2 3.5SN BK BX
Order No.	1464340000
Version	PCB plug-in connector, male header, closed side, Middle flange, THT solder connection, 7.62 mm, No. of poles: 4, 270°, Solder pin length (l): 3.5 mm, tinned, black, Box
GTIN (EAN)	4050118271027
Qty.	48 pc(s).
Product data	IEC: 1000 V / 57 A UL: 300 V / 40.5 A
Packaging	Box

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Technical data
Dimensions and weights

Height	14.9 mm	Height (inches)	0.587 inch
Height of lowest version	11.4 mm	Depth	28.3 mm
Depth (inches)	1.114 inch	Net weight	8.296 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	4	Number of solder pins per pole	2
Solder pin length (l)	3.5 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 eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)	+ 0.1 mm
L1 in mm	30.48 mm	L1 in inches	1.2 inch
Number of rows	1	Pin series quantity	1
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	2.00 mΩ	Can be coded	Yes
Plugging cycles	25		

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
CTI	≥ 500	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	Copper alloy	Contact surface	tinned
Layer structure of solder connection	1-3 µm Ni / 4-6 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.	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. no. of poles (Tu=20°C)	57 A
Rated current, max. no. of poles (Tu=20°C)	41 A	Rated current, min. no. of poles (Tu=40°C)	41 A
Rated current, max. no. 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

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Technical data
Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1121690

Rated voltage (Use group B / CSA)	300 V
Rated voltage (Use group D / CSA)	600 V
Rated current (Use group C / CSA)	35 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group C / CSA)	300 V
Rated current (Use group B / CSA)	35 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 D / UL 1059)	600 V
Rated current (Use group C / UL 1059)	40.5 A
Clearance distance, min.	6.9 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group C / UL 1059)	300 V
Rated current (Use group B / UL 1059)	40.5 A
Rated current (Use group D / UL 1059)	5 A
Creepage distance, min.	9.6 mm

Packing

Packaging	Box	VPE length	350 mm
VPE width	135 mm	VPE height	35 mm

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	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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3

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.

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Technical data**Approvals**

Approvals



ROHS

Conform

DownloadsApproval/Certificate/Document of
Conformity[Declaration of the Manufacturer](#)

Brochure/Catalogue

[FL DRIVES EN](#)
[MB DEVICE MANUF. EN](#)
[FL DRIVES DE](#)
[CAT 2 PORTFOLIOGUIDE EN](#)
[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

[EPLAN, WSCAD](#)

Engineering Data

[STEP](#)
[STEP](#)

Motion controllers white paper

[Download Whitepaper](#)

White Paper UL 600 V

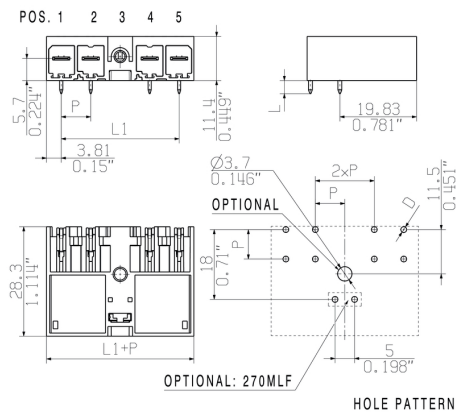
[Download Whitepaper](#)

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Drawings

Dimensional drawing



Connection diagram

6	M(S)F6	o	o	o	o	o	o	X	o
6	M(S)F5	o	o	o	o	o	X	o	o
6	M(S)F4	o	o	o	o	X	o	o	o
6	M(S)F3	o	o	X	o	o	o	o	o
6	M(S)F2	o	X	o	o	o	o	o	o
5	M(S)F5	o	o	o	o	o	X	o	
5	M(S)F4	o	o	o	X	o	o	o	
5	M(S)F3	o	o	X	o	o	o	o	
5	M(S)F2	o	X	o	o	o	o	o	
4	M(S)F4	o	o	o	X	o	o	o	
4	M(S)F3	o	o	X	o	o	o	o	
4	M(S)F2	o	X	o	o	o	o	o	
3	M(S)F3	o	o	X	o	o	o	o	
3	M(S)F2	o	X	o	o	o	o	o	
2	M(S)F2	o	X	o	o	o	o	o	
		1	2	3	4	5	6	7	

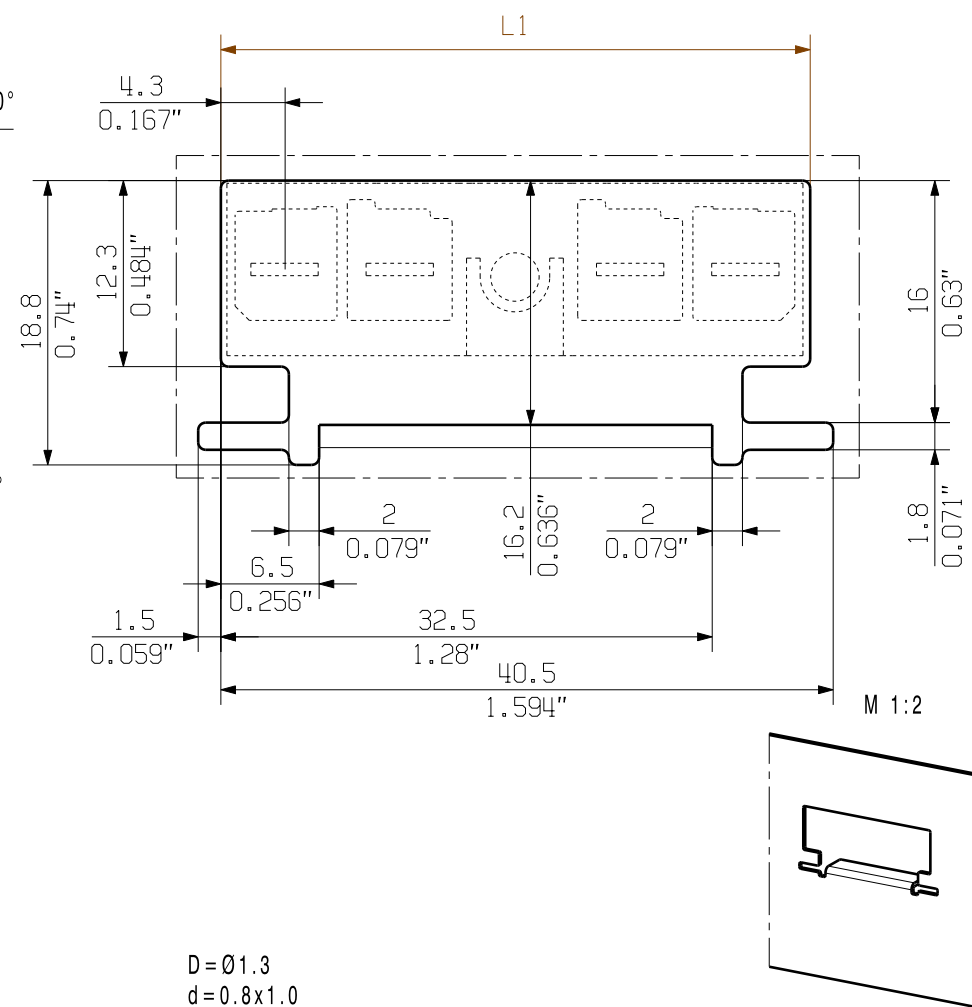
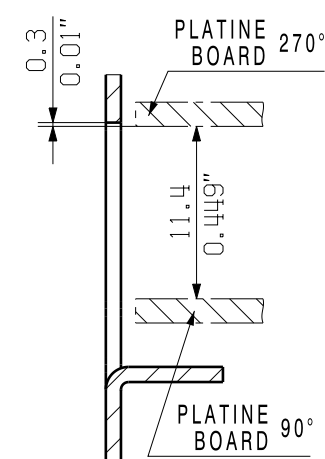
**NO OF
POLES**

**X = MIDDLE
FLANGE
POSITION**

POS. 1 2 3 4 5



SHOWN: SV 7.62HP/04/90MSF



MF= Mittelflansch
middle flange

MSF= Mittelschraubflansch
middle flange with screw

MLF= Mittellötflansch
middle solder flange

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.

W	SV 7.62HP/08/...M(S/L)F5	8	60.92	2.34					MF				
	SV 7.62HP/06/...M(S/L)F6										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								

GENERAL TOLERANCE:
DIN ISO 2768-m



Scale: 2:1

Supersedes: .

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

Weidmüller 

Cat.no.: .

3 49530 (19

Drawing no. Issue n

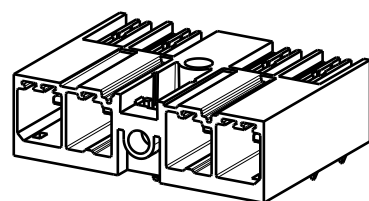
Sheet 01 of 01 sheets

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

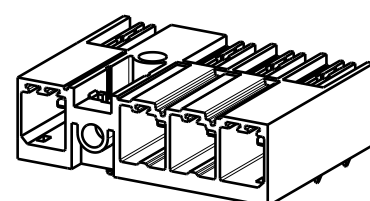
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7340

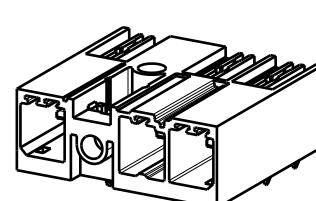
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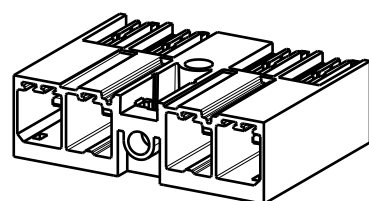
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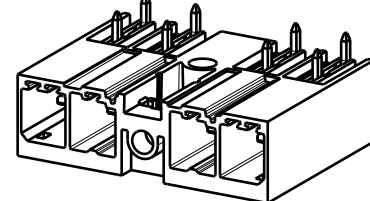
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SV 7.62HP/03/90MF2...



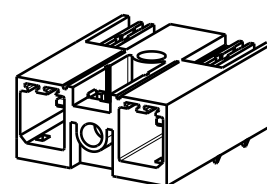
M 1:1
SV 7.62HP/04/180MF...



M 1:1
SV 7.62HP/04/270MF...



M 1:1
SV 7.62HP/02/90MF...



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

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.