

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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Product image















 90° 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

Туре	SV 7.62HP/06/90MF6 3.5SN BK BX
Order No.	<u>1543160000</u>
Version	PCB plug-in connector, male header, closed side, Middle flange, THT solder connection, 7.62 mm, Number of poles: 6, 90°, Solder pin length (I): 3.5 mm, black, Box
GTIN (EAN)	4050118348101
Qty.	30 pc(s).
Product data	IEC: 1000 V / 57 A UL: 300 V / 40.5 A
Packaging	Box

Creation date May 4, 2020 1:07:55 AM CEST



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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	18.744 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	90°
Number of poles	6	Number of solder pins per pole	2
Solder pin length (I)	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	45.72 mm
L1 in inches	1.8 inch	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	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
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material		Layer structure of solder connection	1-3 μm Ni / 4-6 μm Sn
	Copper alloy		matt
Storage temperature, min.	-25 °C	Storage temperature, max.	50 °C
Max. relative humidity during storage	70 %	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		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(Tu=20°C)	57 A
Rated current, max. number of poles		Rated current, min. number of poles	
(Tu=20°C)	41 A	(Tu=40°C)	41 A
Rated current, max. number of poles		Rated voltage for surge voltage class /	
(Tu=40°C)	41 A	pollution degree II/2	1,000 V
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /	
pollution degree III/2	630 V	pollution degree III/3	630 V
Rated impulse voltage for surge voltage		Rated impulse voltage for surge voltage	
class/ pollution degree II/2	6 kV	class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage		Short-time withstand current resistance	
class/ contamination degree III/3	6 kV		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 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

	C THE US	
Rated voltage (Use group B / UL 1059)	300 V	Rated volta
Rated voltage (Use group D / UL 1059)	600 V	Rated curre
Rated current (Use group C / UL 1059)	40.5 A	Rated curre

Certificate No. (cURus)

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.

	E60693
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

Institute (cURus)

Packaging	Box	VPE length	350 mm
VPE width	135 mm	VPE height	35 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 10.0	27-44-04-02		

Additional colours on request Rated current related to rated cross-section & min. No. of poles. P on drawing = pitch
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
nformity: The products are developed, manufactured and delivered according international recognized
Indards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties 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	
	® c Talius
ROHS	Conform
Downloads	
Pro share (Catalague	EL DRIVEC EN
Brochure/Catalogue	FL DRIVES EN FL DRIVES DE
Engineering Data	STEP
White paper power electronics	
connected correctly	<u>Download Whitepaper</u>
White paper UL 600 V	Download Whitepaper



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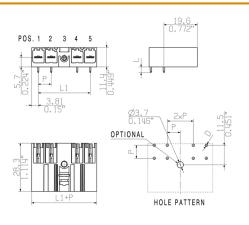
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Drawings

Dimensional drawing



NO OF POLES	X = MIDDLE FLANGE POSITION	POS. 1 2 3 4 5						
		1	2	3	4	5	6	7
2	M(S)F2	0	X	0				
3	M(S)F2	0	х	0	0			
3	M(S)F3	0	0	Х	0			
4	M(S)F2	0	х	0	0	0		
4	M(S)F3	0	0	х	0	0		
4	M(S)F4	0	0	0	х	0		
5	M(S)F2	0	х	0	0	0	0	
5	M(S)F3	0	0	х	0	0	0	
5	M(S)F4	0	0	0	х	0	0	
5	M(S)F5	0	0	0	0	х	О	
6	M(S)F2	0	х	0	0	0	О	0
6	M(S)F3	0	0	х	0	0	0	0
6	M(S)F4	0	0	0	Х	0	0	0
6	M(S)F5	0	0	0	0	Х	0	0
6	M(S)F6	0	0	0	0	0	Х	0



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Accessories

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Туре	BV/SV 7.62HP KO	Version	Product data	Packaging
Order No.	<u>1937590000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248608881	of poles: 1		
Qty.	50 pc(s).			



Recommended wave solderding 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.