

Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26

D-32758 Detmold Germany

www.weidmueller.com

Product image





Similar to illustration

High-performance female header with solder connection. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity, protection against faulty wiring and 4-point contact.

General ordering data

Version	PCB plug-in connector, female header, Screw/clip- on flange, reversed, THT solder connection, 7.62 mm, Number of poles: 7, 270°, Solder pin length (I): 3.5 mm, tinned, black, Box
Order No.	<u>1929570000</u>
Туре	BVL 7.62HP/07/270SFI 3.5SN BK BX
GTIN (EAN)	4032248579013
Qty.	50 pc(s).
Product data	IEC: 1000 V / 56.8 A UL: 300 V / 35 A
Packaging	Вох

Creation date March 26, 2021 9:34:54 AM CET

Technical data

Dimensions and weights



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Net weight	12.13 g		
System Parameters			
Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Board connection
Pitch in mm (P)	7.62 mm	Pitch in inches (P)	0.3 inch
Number of poles	7	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	IP 20	Volume resistance	2.00 mΩ
Can be coded	Yes	Tightening torque for screw flange, min.	0.2 Nm
Tightening torque for screw flange, max	. 0.3 Nm	Plugging force/pole, max.	7 N
Pulling force/pole, max.	4 N	i	
Material data			
In culating material	DA CE	Calavia	block
Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	
Comparative Tracking Index (CTI) Contact material	≥ 500	UL 94 flammability rating Contact surface	V-0 tinned
• • • • • • • • • • • • • • • • • • • •	Copper alloy		
Layer structure of solder connection	46 μm Sn matt -40 °C	Layer structure of plug contact	46 µm Sn matt 70 °C
Storage temperature, min.	-40°C	Storage temperature, max.	130 °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)	56.8 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

Rated data acc. to CSA

Institute (CSA)



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.

Certificate No. (CSA)

	200039-1534443
Rated voltage (Use group C / CSA)	300 V
Rated current (Use group B / CSA)	35 A
Rated current (Use group D / CSA)	5 A

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Institute (cURus)	c Ru s	Certificate No. (cl	JRus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Us	e group C / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Us	e group B / UL 1059)	35 A
Rated current (Use group C / UL 1059)	35 A	Rated current (Us	e group D / UL 1059)	5 A
Clearance distance, min.	6.9 mm	Creepage distanc	e, min.	9.66 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.			
Packing				
De alve sin s	Вох) (DE longth		300 mm
Packaging VPE width	100 mm	VPE length VPE height		105 mm
	Too mini	VFE height		105 1111
Type tests				
Test: Durability of markings	Standard			on 7.3.2 / 09.02 taking 60068-2-70 / 07.96
	Test		mark of origin, type i material	dentification, pitch, type of
	Evaluation		available	
	Test		durability	
	Evaluation		passed	
Test: Misengagement (Non- interchangeability)	Standard		DIN EN 61984 section DIN IEC 60512-7 sec	on 6.3 and 6.9.1 / 09.02, ction 5 / 05.94
	Test		180° turned with coding elements	
	Evaluation		passed	
	Test		180° turned without coding elements	
	Evaluation		passed	

Rated data acc. to UL 1059

Technical data



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Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, EN 60947-1 section 8.2.4.5.1 / 12.02	
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross- section	
		Type of conductor stranded 0.5 mm ² and conductor cross- section	
		Type of conductor solid 6 mm ² and conductor cross- section	
		Type of conductor stranded 6 mm ² and conductor cross- section	
		Type of conductor AWG 24/1 and conductor cross- section	
		Type of conductor AWG 24/19 and conductor cross- section	
		Type of conductor AWG 10/1 and conductor cross- section	
		Type of conductor AWG 10/19 and conductor cross- section	
	Evaluation passed		
est for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00	
osening of conductors	Requirement 0.2 kg		
	Conductor type	Type of conductor AWG 24/1 and conductor cross- section	
		Type of conductor AWG 24/19 and conductor cross- section	
	Evaluation	passed	
	Requirement	0.3 kg	
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross- section	
		Type of conductor stranded 0.5 mm ² and conductor cross- section	
	Evaluation	passed	
	Requirement	1.4 kg	
	Conductor type	Type of conductor AWG 10/1 and conductor cross- section	
		Type of conductor AWG 10/19	
		and conductor cross- section	

Technical data

Pull-out test



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Standard	DIN EN 60999-1 section 9.5 / 12.00	
Requirement	≥10 N	
Conductor type	Type of conductor AWG 24/1 and conductor cross- section	
	Type of conductor AWG 24/19 and conductor cross- section	
Evaluation	passed	
Requirement	≥20 N	
Conductor type	Type of conductor H05V-U0.5 and conductor cross- section	
	Type of conductor H05V-K0.5 and conductor cross- section	
Evaluation	passed	
Requirement	≥80 N	
Conductor type	Type of conductor H07V-U6 and conductor cross- section	
	Type of conductor H07V-K6 and conductor cross- section	
	Type of conductor AWG 10/1 and conductor cross- section	
	Type of conductor AWG 10/19 and conductor cross- section	
Evaluation	passed	

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	ECLASS 11.0	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	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.
	• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months



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Approvals

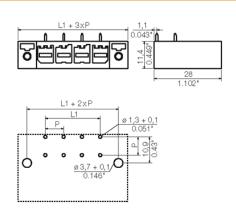
Approvals



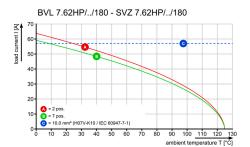
ROHS	Conform	
UL File Number Search	E60693	
Downloads		
Approval/Certificate/Documen		
Conformity	Declaration of the Manufacturer	
Engineering Data	<u>STEP</u>	
Engineering Data	EPLAN, WSCAD	

Drawings

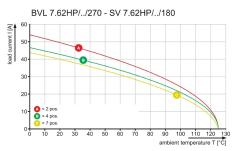
Dimensional drawing



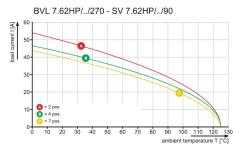
Graph



Graph



Graph



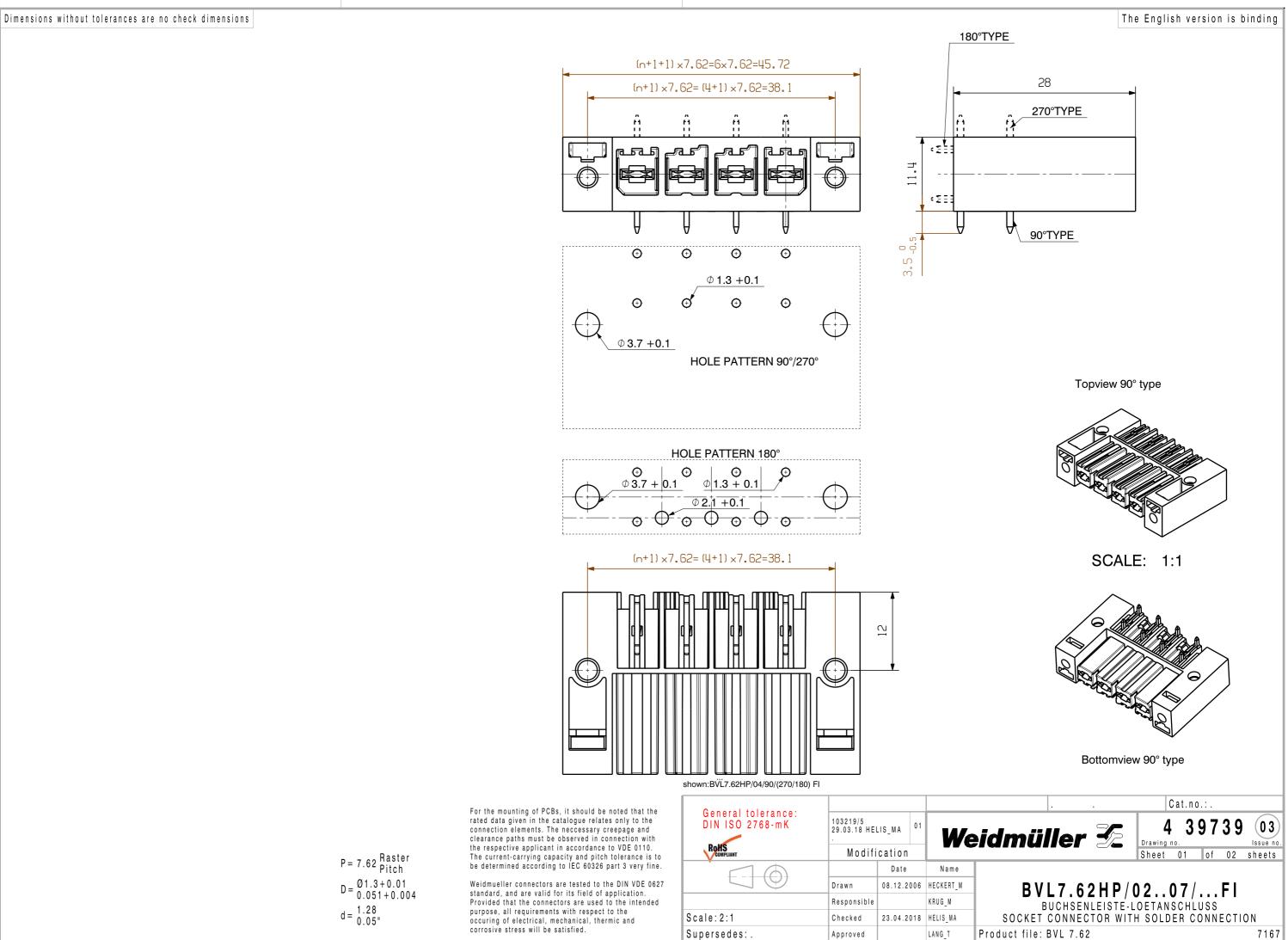


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Germany



Wave Solder Profile

Recommended wave solderding profiles

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Klingenbergstraße 16 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com



Double Wave:

Single 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.