

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com













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, closed side, THT solder connection, 7.62 mm, Number of poles: 2, 90°
Order No.	<u>2537520000</u>
Туре	BVL 7.62HP/02/90 3.5SN BK BX SO
GTIN (EAN)	4050118549133
Qty.	100 pc(s).
Product data	IEC: 1000 V / 56.8 A UL: 300 V / 35 A

Creation date March 29, 2021 7:02:35 PM CEST



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Technical data

Dim	ensions	and	weights
	CHSIUHS	anu	WEIGHLS

Net weight	4.499 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	2	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
Plugging cycles	25	Plugging force/pole, max.	7 N
Pulling force/pole, max.	4 N		

Material data

Insulating material	PA GF	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	Copper alloy
Layer structure of solder connection	46 µm Sn matt	Layer structure of plug contact	46 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)	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

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

Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059	9) 300 V	Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group D / UL 105	9) 600 V	Rated current (Use group B / UL 1059)	35 A
Rated current (Use group C / UL 1059	9) 35 A	Rated current (Use group D / UL 1059)	5 A
Clearance distance, min.	6.9 mm	Creepage distance, min.	9.66 mm



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Packing

VPE length	0 m	VPE width	0 m
VPE height	0 m		
Type tests			
Test: Durability of markings	Standard		DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96
	Test		mark of origin, type identification, pitch, type of material
	Evaluation		available
	Test		durability
	Evaluation		passed
Test: Misengagement (Non- interchangeability)	Standard		DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN IEC 60512-7 section 5 / 05.94
	Test		180° turned with coding elements
	Evaluation		passed
	Test		180° turned without coding elements
	Evaluation		passed
Test: Clampable cross section	Standard		DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN 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



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Test for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00	
posening 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	
	Evaluation	passed	
ull-out test	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	



Conform

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Classifications

ROHS

Notes	Long term storage of	the product with average temperature of	50 °C and average humidity 70%, 36 months
IPC conformity	standards and norms an	s are developed, manufactured and delived d comply with the assured properties in t A-610 "Class 2". Further claims on the pro	he data sheet resp. fulfill decorative propertie
Important note			
ECLASS 10.0	27-44-03-09	ECLASS 11.0	27-46-02-02
ECLASS 9.0	27-44-03-09	ECLASS 9.1	27-44-03-09
ETIM 6.0	EC002638	ETIM 7.0	EC002638



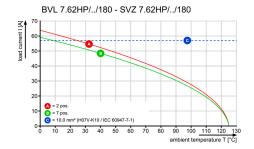
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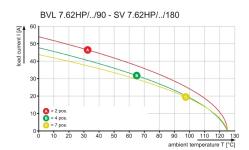
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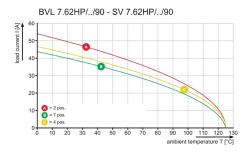
Drawings

Graph Graph





Graph





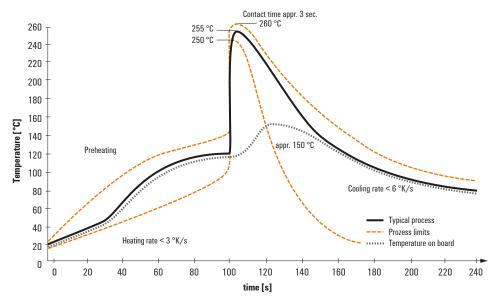
Recommended wave solderding profiles

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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.