

**BV/SV 7.62HP series**  
**SV 7.62/03/90G 3.5SN BK BX**

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

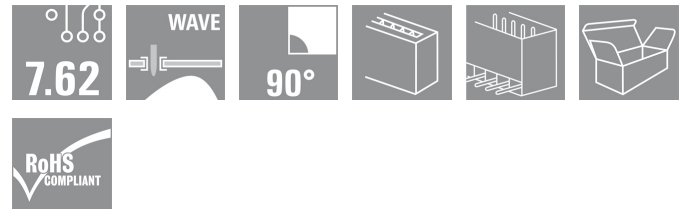
D-32758 Detmold

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Single-row, high-current male connector, for side-by-side mounting without losing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections, unique coding diversity and additional fixing in flange. 3.5 mm pin length is optimised for lead-free wave soldering, plug-in direction 90° to solder pins.

- 800 V (IEC) / 600 V (UL)
- 41 A (IEC) / 31 A (UL)

#### General ordering data

Order No.	<a href="#">1822290000</a>
Type	SV 7.62/03/90G 3.5SN BK BX
Version	PCB plug-in connector, male header, closed side, Solder connection, 7.62 mm, No. of poles: 3, 90°, Solder pin length (l): 3.5 mm, tinned, Black, Box
Product data	IEC: 800 V / 41 A UL: 300 V / 31 A
GTIN (EAN)	4032248323326
Packaging	Box
Qty.	100 pc(s).

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**Technical data****System parameters**

Product family	BV/SV 7.62HP series	Mounting onto the PCB	Solder connection
Outgoing elbow	90°	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	No. of poles	3
Solder pin length (l)	3.5 mm	Can be coded	Yes
Number of rows	1	Number of solder pins per pole	2
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)	+ 0,1 mm
L1 in mm	15.24 mm	L1 in inches	0.6 inch
Insulation resistance	10 <sup>3</sup> Ω	Touch-safe protection acc. to DIN VDE 0470	IP 20
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged		


**Material data**

Insulating material	PBT GF	Colour	Black
Insulating material group	IIIa	Flammability class UL 94	V-0
CTI	≥ 200	Contact material	Copper alloy
Contact surface	tinned	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	100 °C	Max. relative humidity during storage	80 %

**DIN IEC rating data**

Rated current, min. no. of poles (Tu=20°C)	41 A	Rated current, max. no. of poles (Tu=20°C)	38 A
Rated current, number of poles (Tu=40°C), min	38 A	Rated current, number of poles (Tu=40°C), max.	31 A
Rated voltage for surge voltage class / pollution degree III/3	500 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated voltage for surge voltage class / pollution degree II/2	800 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV
Short-time withstand current resistance	3 x 1s with 360 A		

**CSA rating data**

Institute (CSA)		Rated voltage (Use group B)	300 V
Rated current (use group B)	31 A	Rated voltage (Use group C)	300 V
Rated current (use group C)	31 A	Rated voltage (use group D)	600 V
Rated current (use group D)	5 A		

**UL 1059 rating data**

Rated voltage (use group B)	300 V	Rated current (use group B)	31 A
Rated voltage (use group C)	300 V	Rated current (use group C)	31 A
Rated voltage (use group D)	600 V	Rated current (use group D)	5 A

**Classifications**

ETIM 3.0	EC001284	UNSPSC	30-21-18-10
eClass 4.1	27-26-07-01	eClass 5.1	27-26-07-04
eClass 6.0	27-26-07-04	eClass 7.0	27-44-04-02

**Data sheet...****BV/SV 7.62HP series**  
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- Notes
- Additional colours on request
  - Rated current related to rated cross-section and min. No. of poles.
  - The data given under CSA relates to a cUL approval - E60693
  - P on drg. = 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.

**Approvals**

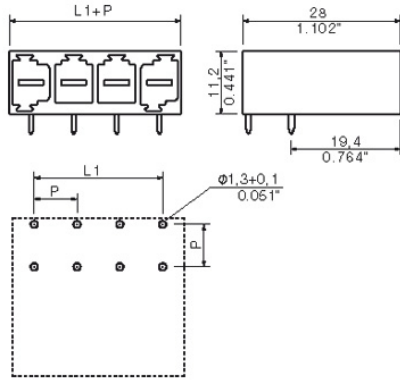
Approvals

**Downloads**

- CAD Library (P-CAD Format - ASCII) [SV.LIA](#)
- CAD Library (P-CAD Format - Standard) [SV.LIB](#)
- [3-D model](#)

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**Drawings**

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**Mating connector (conditionally pluggable)**
**BVZ 7.62/180SF**


High-current female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point contact. Suitable for labelling

- 0.20 - 6 mm<sup>2</sup> (IEC) / 22 - 10 AWG (UL)
- 800 V (IEC) / 600 V (UL)
- 41 A (IEC) / 31 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1853020000</a>	BVZ 7.62/03/180SF SN BK BX	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm <sup>2</sup> , Box	IEC: 800 V / 41 A / 0.2 - 6 mm <sup>2</sup> UL: 600 V / 31 A / AWG 22 - AWG 10	4032248387618	Box	100 pc(s)

**BVZ 7.62/180F**


High-current female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point contact. Suitable for labelling

- 0.20 - 6 mm<sup>2</sup> (IEC) / 22 - 10 AWG (UL)
- 800 V (IEC) / 600 V (UL)
- 41 A (IEC) / 31 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1821640000</a>	BVZ 7.62/03/180F SN BK BX	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm <sup>2</sup> , Box	IEC: 800 V / 41 A / 0.2 - 6 mm <sup>2</sup> UL: 600 V / 31 A / AWG 22 - AWG 10	4032248321971	Box	100 pc(s)

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**Mating connector (fully pluggable)**
**BVZ 7.62/180**


High-current female connector with the tried-and-tested, guaranteed zero-maintenance, Weidmüller steel clamping yoke. Side-by-side mounting without losing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to pin arrangement that prevents wrong connections or wrong wiring, unique coding diversity, 4-point contact. Suitable for labelling

- 0.20 - 6 mm<sup>2</sup> (IEC) / 22 - 10 AWG (UL)
- 800 V (IEC) / 600 V (UL)
- 41 A (IEC) / 31 A (UL)

**General ordering data**

Order No.	Type	Version	Product data	GTIN (EAN)	Packaging	Qty.
<a href="#">1821530000</a>	BVZ 7.62/03/180 SN BK BX	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 3, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm <sup>2</sup> , Box	IEC: 800 V / 41 A / 0.2 - 6 mm <sup>2</sup> UL: 600 V / 31 A / AWG 22 - AWG 10	4032248321865	Box	100 pc(s).