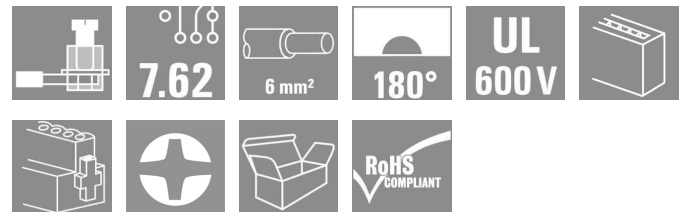


**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



High-performance female header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against faulty wiring, 4-point contact. Suitable for labelling.

General ordering data

Type	BVZ 7.62HP/07/180SF SN BK BX
Order No.	1930210000
Version	PCB plug-in connector, female plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm², Box
GTIN (EAN)	4032248580088
Qty.	50 pc(s).
Product data	IEC: 1000 V / 41 A / 0.2 - 6 mm² UL: 600 V / 40.5 A / AWG 24 - AWG 8
Packaging	Box

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

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 www.weidmueller.com

Technical data**Dimensions and weights**

Net weight	41.86 g
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System parameters

Product family	OMNIMATE Power - series BV/SV 7.62HP	Wire connection method	Clamping yoke connection
Conductor outlet direction	180°	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	No. of poles	7
Screwdriver blade	0.8 x 4.5	Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Clamping screw	M 2.5	Stripping length	12 mm
L1 in mm	45.72 mm	L1 in inches	1.8 inch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch

Material data

Insulating material	PA GF	Colour	Black
Colour chart (similar)	RAL 9011	UL 94 flammability rating	V-0
CTI	≥ 500	Contact material	Cu-Leg
Contact surface	tinned	Contact base material	Cu-Leg
Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	100 °C

Connectable conductors

Clamping range, rated connection, min.	0.2 mm ²	Clamping range, rated connection, max.	6 mm ²
Wire connection cross section AWG, min.	AWG 22	Wire connection cross section AWG, max.	AWG 10
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	6 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²	Flexible, max. H05(07) V-K	6 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	6 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	6 mm ²
Plug gauge acc. to EN 60999 a x b; Ø	2.8 mm x 2.0 mm; 2.4 mm		

Rating data acc. to IEC 60664-1 / IEC 61984

Rated current, min. no. of poles (TU=20°C)	41 A	Rated current, number of poles (Tu=40°C), min	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	1,000 V
Rated voltage for surge voltage class / pollution degree III/3	800 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	8 kV	Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV
Short-time withstand current resistance	3 x 1s with 420 A		


Data sheet

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**


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Technical data

CSA rating data

Institute (CSA)		Certificate No. (CSA)	
			
		200039-1534443	
Rated voltage (Use group B)	600 V	Rated current (use group B)	35 A
Rated voltage (Use group C)	600 V	Rated current (use group C)	35 A
Rated voltage (use group D)	600 V	Rated current (use group D)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 10

UL 1059 rating data

Institute (cURus)		Certificate No. (cURus)	
			
		E60693	
Rated voltage (use group B)	600 V	Rated current (use group B)	40.5 A
Rated voltage (use group C)	600 V	Rated current (use group C)	40.5 A
Rated voltage (use group D)	600 V	Rated current (use group D)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8

Classifications

UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02

Notes

- Notes
- Additional colours on request
 - Rated current related to rated cross-section & min. No. of poles.
 - Wire end ferrule with plastic collar to DIN 46228/4
 - Wire end ferrule without plastic collar to DIN 46228/1
 - 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.

Approvals

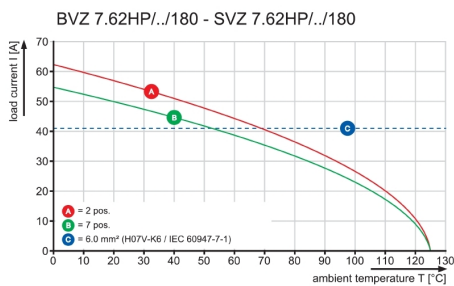
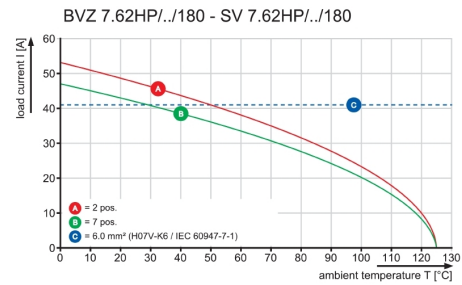
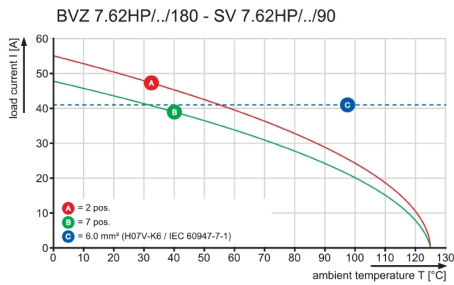
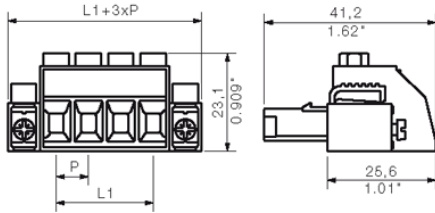
Approvals	
ROHS	Conform

Data sheet

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

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Drawings



**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

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Mating connector (conditionally pluggable)
SVZ 7.62HP 180FI SN


High-performance male header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. 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, unique coding diversity, incorrect wiring protection. Suitable for labelling.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SVZ 7.62HP/07/180FI SN BK BX	1932120000	PCB plug-in connector, male plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm ² , Box	4032248582235	50 pc(s).	IEC: 1000 V / 41 A / 0.2 - 6 mm ² UL: 600 V / 42 A / AWG 24 - AWG 8	Box

SVZ 7.62HP 180F SN


High-performance male header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. 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, unique coding diversity, incorrect wiring protection. Suitable for labelling.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SVZ 7.62HP/07/180F SN BK BX	1931860000	PCB plug-in connector, male plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm ² , Box	4032248581795	50 pc(s).	IEC: 1000 V / 41 A / 0.2 - 6 mm ² UL: 600 V / 42 A / AWG 24 - AWG 8	Box

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

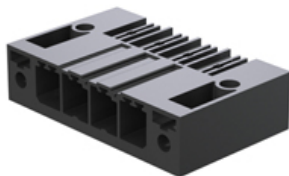
Weidmüller Interface GmbH & Co. KG
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www.weidmueller.com

Mating connector (conditionally pluggable)
SVZ 7.62HP 180SFC SN


High-performance male header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. 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, unique coding diversity, incorrect wiring protection. Suitable for labelling.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SVZ 7.62HP/07/180SFC SN BK BX	1951050000	PCB plug-in connector, male plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm ² , Box	4032248629954	50 pc(s).	IEC: 1000 V / 41 A / 0.2 - 6 mm ² UL: 600 V / 42 A / AWG 24 - AWG 8	Box

SV 7.62HP 90F SN


Single-row, high-current and high-performance male connectors for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/90F 3.5SN BK BX	1930430000	PCB plug-in connector, male header, Clip-on flange, Solder connection, 7.62 mm, No. of poles: 7, 90°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248580309	24 pc(s).	IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

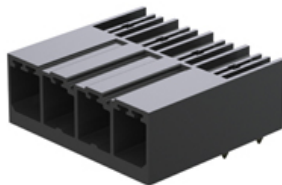
Weidmüller Interface GmbH & Co. KG
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Fon: +49 5231 14-0
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Mating connector (conditionally pluggable)
SVZ 7.62HP 180 SN


High-performance male header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. 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, unique coding diversity, incorrect wiring protection. Suitable for labelling.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SVZ 7.62HP/07/180G SN BK BX	1931680000	PCB plug-in connector, male plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm ² , Box	4032248581672	50 pc(s).	IEC: 1000 V / 41 A / 0.2 - 6 mm ² UL: 600 V / 42 A / AWG 24 - AWG 8	Box

SV 7.62HP 90G SN


Single-row, high-current and high-performance male connectors for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/90G 3.5SN BK BX	1930320000	PCB plug-in connector, male header, closed side, Solder connection, 7.62 mm, No. of poles: 7, 90°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248580194	30 pc(s).	IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

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Mating connector (conditionally pluggable)
SV 7.62HP 270F SN


Single-row, high-current and high-performance male connectors for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/270F 3.5SN BK BX	1931420000	PCB plug-in connector, male header, Clip-on flange, Solder connection, 7.62 mm, No. of poles: 7, 270°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248581450	24 pc(s).	IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

SVZ 7.62HP 180SFI SN

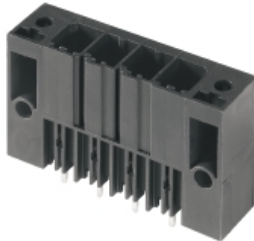

High-performance male header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, incorrect wiring protection. Suitable for labelling.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SVZ 7.62HP/07/180SFI SN BK BX	1932230000	PCB plug-in connector, male plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm ² , Box	4032248582341	50 pc(s).	IEC: 1000 V / 41 A / 0.2 - 6 mm ² UL: 600 V / 42 A / AWG 24 - AWG 8	Box

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

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Mating connector (conditionally pluggable)
SV 7.62HP 180F SN


Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/180F 3.5SN BK BX	1930760000	PCB plug-in connector, male header, Clip-on flange, Solder connection, 7.62 mm, No. of poles: 7, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248580736	24 pc(s).	IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

SV 7.62HP 180GX SN


Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/180GX 3.5SN BK BX	1930980000	PCB plug-in connector, male header, Closed-sided / anti- rotation feature, Solder connection, 7.62 mm, No. of poles: 7, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248580958	50 pc(s).	IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

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Mating connector (conditionally pluggable)
SV 7.62HP 180G SN


Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/180G 3.5SN BK BX	1930650000	PCB plug-in connector, male header, closed side, Solder connection, 7.62 mm, No. of poles: 7, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248580620	30 pc(s).	IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

SVZ 7.62HP 180FC SN

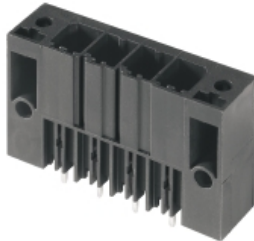

High-performance male header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, incorrect wiring protection. Suitable for labelling.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SVZ 7.62HP/07/180FC SN BK BX	1950930000	PCB plug-in connector, male plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm ² , Box	4032248629824	50 pc(s).	IEC: 1000 V / 41 A / 0.2 - 6 mm ² UL: 600 V / 42 A / AWG 24 - AWG 8	Box

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

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www.weidmueller.com

Mating connector (conditionally pluggable)
SV 7.62HP 180FX SN


Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/180FX 3.5SN BK BX	1931090000	PCB plug-in connector, male header, Clip-on flange / anti-rotation feature, Solder connection, 7.62 mm, No. of poles: 7, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248581092	50 pc(s).	IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

SV 7.62HP 270G SN

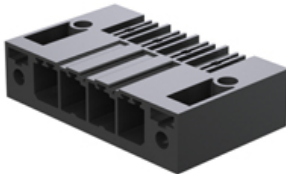

Single-row, high-current and high-performance male connectors for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/270G 3.5SN BK BX	1931310000	PCB plug-in connector, male header, closed side, Solder connection, 7.62 mm, No. of poles: 7, 270°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248580347	30 pc(s).	IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

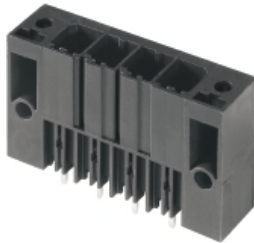
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Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Mating connector (fully pluggable)
SV 7.62HP 90SF SN


Single-row, high-current and high-performance male connectors for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/90SF 3.5SN BK BX	1930540000	PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 7.62 mm, No. of poles: 7, 90°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248580514 24 pc(s).		IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

SV 7.62HP 180SF SN


Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/180SF 3.5SN BK BX	1930870000	PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 7.62 mm, No. of poles: 7, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248580842 24 pc(s).		IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

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Mating connector (fully pluggable)
SV 7.62HP 270SF SN


Single-row, high-current and high-performance male connectors for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV 7.62HP/07/270SF 3.5SN BK BX	1931530000	PCB plug-in connector, male header, Screw/clip-on flange, Solder connection, 7.62 mm, No. of poles: 7, 270°, Solder pin length (l): 3.5 mm, tinned, Black, Box	4032248581566	24 pc(s).	IEC: 1000 V / 41 A UL: 300 V / 40.5 A	Box

SVZ 7.62HP 180SF SN


High-performance male header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. 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, unique coding diversity, incorrect wiring protection. Suitable for labelling.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SVZ 7.62HP/07/180SF SN BK BX	1932010000	PCB plug-in connector, male plug, 7.62 mm, No. of poles: 7, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 6 mm ² , Box	4032248582129	50 pc(s).	IEC: 1000 V / 41 A / 0.2 - 6 mm ² UL: 600 V / 42 A / AWG 24 - AWG 8	Box

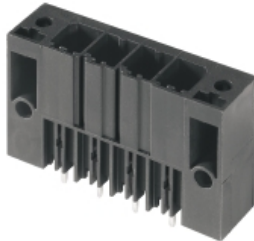
Data sheet

**OMNIMATE Power - series BV/SV 7.62HP
BVZ 7.62HP/07/180SF SN BK BX**

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Mating connector (fully pluggable)

SV 7.62HP 180SFX SN



Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
SV	1931200000	PCB plug-in connector, male	4032248581221	50 pc(s).	IEC: 1000 V / 41 A	Box
7.62HP/07/180SFX		header, Screw flange / clip-on flange / anti-rotation feature, Solder connection,			UL: 300 V / 40.5 A	
3.5SN BK BX		7.62 mm, No. of poles: 7, 180°, Solder pin length (l): 3.5 mm, tinned, Black, Box				


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