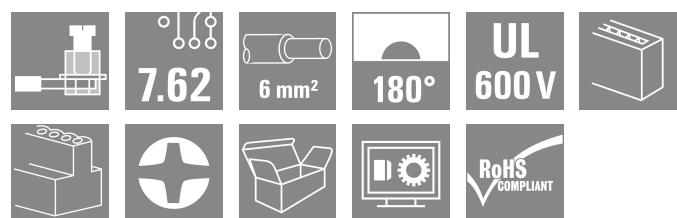


**BVZ 7.62HP/03/180RSH210 SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

**Product image**

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**

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 3, 180°, Clamping yoke connection, Clamping range, max. : 10 mm <sup>2</sup> , Box
Order No.	<a href="#">1933430000</a>
Type	BVZ 7.62HP/03/180RSH210 SN BK BX
GTIN (EAN)	4032248585816
Qty.	50 items
Product data	IEC: 1000 V / 57 A / 0.2 - 10 mm <sup>2</sup> UL: 600 V / 40.5 A / AWG 24 - AWG 8
Packaging	Box

## BVZ 7.62HP/03/180RSH210 SN BK BX

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## Technical data

## Approvals

## Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E60693

## Dimensions and weights

Depth	80.3 mm	Depth (inches)	3.1614 inch
Height	25 mm	Height (inches)	0.9842 inch
Width	38.1 mm	Width (inches)	1.5 inch
Net weight	36.06 g		

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## System Parameters

Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	3	L1 in mm	15.24 mm
L1 in inches	0.600 "	Number of rows	1
Pin series quantity	1	Rated cross-section	6 mm <sup>2</sup>
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20	Volume resistance	4.50 mΩ
Can be coded	Yes	Stripping length	12 mm
Tightening torque for screw flange, min.	0.2 Nm	Tightening torque for screw flange, max.	0.3 Nm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Clamping screw	M 3	Screwdriver blade	0.6 x 3.5
Plugging cycles	25	Plugging force/pole, max.	16.5 N
Pulling force/pole, max.	11 N		

## Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact base material	Copper alloy
Contact material	Copper alloy	Contact surface	tinned
Layer structure of plug contact	6...8 µm Sn glossy	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	125 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

## Conductors suitable for connection

Clamping range, min.	0.2 mm <sup>2</sup>
Clamping range, max.	10 mm <sup>2</sup>

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## Technical data

Wire connection cross section AWG, min. AWG 24

Wire connection cross section AWG, max. AWG 8

Solid, min. H05(07) V-U 0.2 mm<sup>2</sup>

Solid, max. H05(07) V-U 6 mm<sup>2</sup>

Flexible, min. H05(07) V-K 0.2 mm<sup>2</sup>

Flexible, max. H05(07) V-K 10 mm<sup>2</sup>

w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm<sup>2</sup> min.

w. plastic collar ferrule, DIN 46228 pt 4, 6 mm<sup>2</sup> max.

w. wire end ferrule, DIN 46228 pt 1, min. 0.5 mm<sup>2</sup>

w. wire end ferrule, DIN 46228 pt 1, max. 6 mm<sup>2</sup>

Plug gauge in accordance with EN 60999 a x b; ø 2.8 mm x 2.0 mm; 2.4 mm

Clampable conductor

Cross-section for conductor connection	Type	fine-wired
	nominal	0.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm
	Recommended wire-end ferrule	<a href="#">H0,5/18 OR</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	1 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 15 mm
	Recommended wire-end ferrule	<a href="#">H1,0/18 GE</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	1.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 15 mm
	Recommended wire-end ferrule	<a href="#">H1,5/18 SW</a>
	Stripping length	nominal 12 mm
	Recommended wire-end ferrule	<a href="#">H1,5/12</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	0.75 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm
	Recommended wire-end ferrule	<a href="#">H0,75/18 W</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	2.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm
	Recommended wire-end ferrule	<a href="#">H2,5/19D BL</a>
	Stripping length	nominal 12 mm
	Recommended wire-end ferrule	<a href="#">H2,5/12</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	4 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 12 mm
	Recommended wire-end ferrule	<a href="#">H4,0/12</a>
	Stripping length	nominal 14 mm
	Recommended wire-end ferrule	<a href="#">H4,0/20D GR</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	6 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm

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## Technical data

	Recommended wire-end ferrule <a href="#">H6,0/20 SW</a>
	Stripping length nominal 12 mm
	Recommended wire-end ferrule <a href="#">H6,0/12</a>

Reference text	The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrules is to be chosen depending on the product and the rated voltage.
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## Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	57 A
Rated current, max. number of poles (Tu=20°C)	54 A	Rated current, min. number of poles (Tu=40°C)	51 A
Rated current, max. number of poles (Tu=40°C)	41 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for surge voltage class / pollution degree III/3	800 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6000 V	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
Creepage distance, min.	13 mm	Clearance, min.	10.2 mm

## Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1534443
Rated voltage (Use group B / CSA)	600 V	Rated voltage (Use group C / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	40.5 A
Rated current (Use group C / CSA)	40.5 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V	Rated voltage (Use group F / UL 1059)	1000 V
Rated current (Use group B / UL 1059)	40.5 A	Rated current (Use group C / UL 1059)	40.5 A
Rated current (Use group D / UL 1059)	5 A	Rated current (Use group F / UL 1059)	40.5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## Packing

Packaging	Box	VPE length	336.00 mm
VPE width	150.00 mm	VPE height	89.00 mm

## 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

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## Technical data

	Evaluation	passed
Test: Misengagement (Non-interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN IEC 512 part 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 <sup>2</sup> and conductor cross-section
		Type of conductor stranded 0.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor solid 6 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 6 mm <sup>2</sup> 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
Test for damage to and accidental loosening of conductors	Standard	DIN EN 60999-1 section 9.4 / 12.00
	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 <sup>2</sup> and conductor cross-section
		Type of conductor stranded 0.5 mm <sup>2</sup> and conductor cross-section
	Evaluation	passed
	Requirement	1.4 kg
	Conductor type	Type of conductor solid 6 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 6 mm <sup>2</sup> and conductor cross-section
		Type of conductor AWG 10/1 and conductor cross-section

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## Technical data

Pull-out test	Type of conductor and conductor cross-section	AWG 10/19
	Evaluation	passed
	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥10 N
	Conductor type	Type of conductor and conductor cross-section
		AWG 24/1
		Type of conductor and conductor cross-section
	Evaluation	passed
	Requirement	≥20 N
	Conductor type	Type of conductor and conductor cross-section
		solid 0.5 mm <sup>2</sup>
		Type of conductor and conductor cross-section
	Evaluation	passed
	Requirement	≥80 N
	Conductor type	Type of conductor and conductor cross-section
		solid 6 mm <sup>2</sup>
		Type of conductor and conductor cross-section
		stranded 6 mm <sup>2</sup>
		Type of conductor and conductor cross-section
		AWG 10/1
		Type of conductor and conductor cross-section
	Evaluation	passed

## 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	<ul style="list-style-type: none"> <li>Additional variants on request</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>Wire end ferrule with plastic collar to DIN 46228/4</li> <li>Wire end ferrule without plastic collar to DIN 46228/1</li> <li>P on drawing = pitch</li> <li>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.</li> <li>In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>
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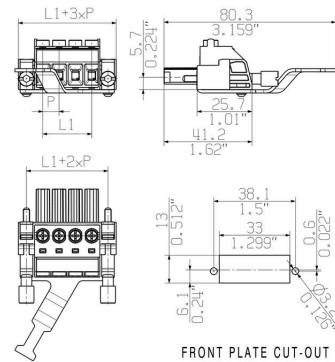
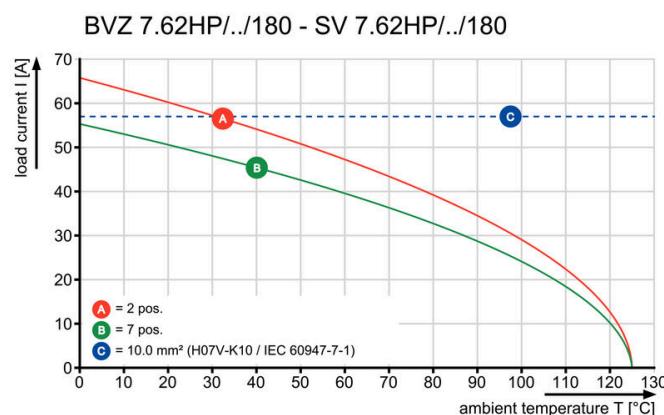
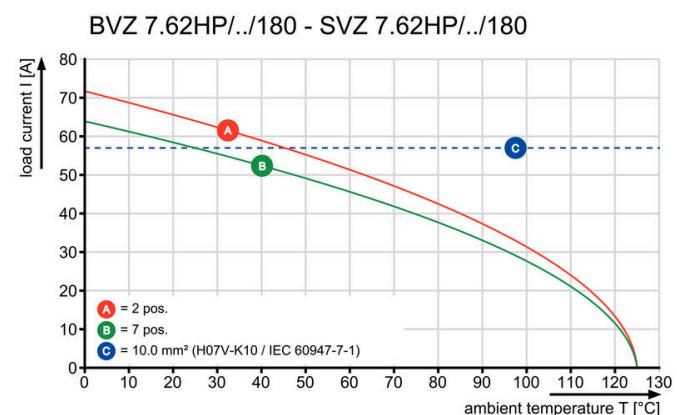
## Classifications

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

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**Drawings****Product image****Dimensional drawing****Graph****Graph****Product benefits**

Safe shielding Reliable and space-saving

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**Accessories****Coding elements**

The pluggable connections for power electronics - optimised for modern drive technologies, e.g. motor starters, frequency converters and servo-controllers. OMNIMATE Power sets the new standard - with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

The three product lines offer you further advantages:

- Application-oriented scalability: from the compact 4 mm<sup>2</sup> connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm<sup>2</sup> connector for 76 A (IEC) or 54 A (UL)
- Unlimited usage up to 1,000 V (IEC) or 600 V (UL)
- A variety of application optimised mounting options

Our service:

Design your individual connectors simply by using the product configurator.

**General ordering data**

Type	BV/SV 7.62HP KO RD 2022	Version
Order No.	<a href="#">2007300000</a>	PCB plug-in connector, Accessories, Coding element, red, Number of
GTIN (EAN)	4050118392715	poles: 1
Qty.	20 ST	

**Slotted screwdriver**

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

**General ordering data**

Type	SDS 0.8X4.5X125	Version
Order No.	<a href="#">9009020000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248266883	
Qty.	1 ST	
Type	SDIS 0.8X4.0X100	Version
Order No.	<a href="#">9008400000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056361	
Qty.	1 ST	

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**Accessories****Crosshead screwdriver Phillips**

Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

**General ordering data**

Type	SDK PH1	Version
Order No.	<a href="#">9008480000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056477	
Qty.	1 ST	
Type	SDIK PH1	Version
Order No.	<a href="#">9008570000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056569	
Qty.	1 ST	

**Crimping tools**

Crimping tools for wire end ferrules, with and without plastic collars  
 • Ratchet guarantees precise crimping  
 • Release option in the event of incorrect operation

**General ordering data**

Type	PZ 6/5	Version
Order No.	<a href="#">9011460000</a>	Pressing tool, Crimping tool for wire-end ferrules, 0.25mm <sup>2</sup> , 6mm <sup>2</sup> ,
GTIN (EAN)	4008190165352	Trapezoidal indentation crimp
Qty.	1 ST	

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## Counterpart

## SV 7.62HP 180G SN

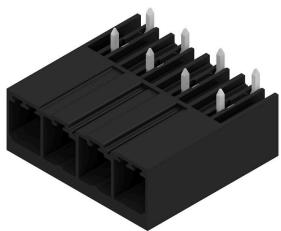


Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional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

## General ordering data

Type	SV 7.62HP/03/180G 3.5SN...	Version
Order No.	<a href="#">1930610000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248580583	connection, 7.62 mm, Number of poles: 3, 180°, Solder pin length (l):
Qty.	78 ST	3.5 mm, tinned, black, Box

## SV 7.62HP 270G SN



Single-row, high-current and high-performance male headers for side-by-side mounting without sacrificing any poles or with flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity and additional fastening in the flange.

## General ordering data

Type	SV 7.62HP/03/270G 3.5SN...	Version
Order No.	<a href="#">1931270000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248581290	connection, 7.62 mm, Number of poles: 3, 270°, Solder pin length (l):
Qty.	78 ST	3.5 mm, tinned, black, Box

## SV 7.62HP 90G SN



Single-row, high-current and high-performance male headers for side-by-side mounting without sacrificing any poles or with flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity and additional fastening in the flange.

## General ordering data

Type	SV 7.62HP/03/90G 3.5SN ...	Version
Order No.	<a href="#">1930280000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4032248580156	connection, 7.62 mm, Number of poles: 3, 90°, Solder pin length (l):
Qty.	78 ST	3.5 mm, tinned, black, Box

**BVZ 7.62HP/03/180RSH210 SN BK BX**

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**Counterpart**

Type	SV 7.62HP/03/90G 3.5SN ...	Version
Order No.	<a href="#">2465240000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4050118480009	connection, 7.62 mm, Number of poles: 3, 90°, Solder pin length (l):
Qty.	78 ST	3.5 mm, tinned, black, Box

**SVD 7.62HP 270G SN**

Double-row high-current, high-performance pin headers, with or without flange, for fast, tool-free locking. Optimised for "book-size modules" measuring 50mm wide and above. With integrated mounting option for mounting to the housing wall. Exceptional reliability and operational safety thanks to 100% failsafe mating profile, unique coding and optional additional screw mounting in the flange.

**General ordering data**

Type	SVD 7.62HP/06/270G 3.2S...	Version
Order No.	<a href="#">1543310000</a>	PCB plug-in connector, male header, closed side, THT solder
GTIN (EAN)	4050118348354	connection, 7.62 mm, Number of poles: 6, 270°, Solder pin length (l):
Qty.	42 ST	3.2 mm, tinned, black, Box

**SV-SMT 7.62HP 270G BX**

OMNIMATE Power BV / SV 7.62HP – the 28 kVA performance class  
 Tailor-made solutions for high performers  
 More power reserves for higher load bearing capacity:  
 The OMNIMATE Power BV / SV 7.62HP is the middle-class of the power connector systems. It has a large clamping capacity, high overload resistance and the largest range of variants and accessories to choose from: the high performer of the HP range. HP means High Performance – this performance covers a great deal: the full rated current up to 50°C without derating, unlimited 600-V approval according to UL, and the additional finger safety for 400 V-TN systems (+ 3.0 mm) in compliance with the application directive IEC 61800-5-1.

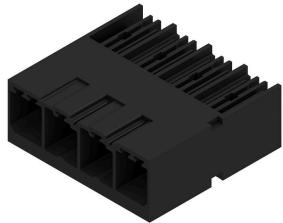
**General ordering data**

Type	SV-SMT 7.62HP/03/270G 2...	Version
Order No.	<a href="#">2499340000</a>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118511987	connection, 7.62 mm, Number of poles: 3, 270°, Solder pin length (l):
Qty.	78 ST	2.6 mm, tinned, black, Box
Type	SV-SMT 7.62HP/03/270G 3...	Version
Order No.	<a href="#">2498400000</a>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118511628	connection, 7.62 mm, Number of poles: 3, 270°, Solder pin length (l):
Qty.	50 ST	3.5 mm, tinned, black, Box

**BVZ 7.62HP/03/180RSH210 SN BK BX**

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**Counterpart****SV-SMT 7.62HP 90G BX**

OMNIMATE Power BV / SV 7.62HP – the 28 kVA performance class  
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 More power reserves for higher load bearing capacity:  
 The OMNIMATE Power BV / SV 7.62HP is the middle-class of the power connector systems. It has a large clamping capacity, high overload resistance and the largest range of variants and accessories to choose from: the high performer of the HP range. HP means High Performance – this performance covers a great deal: the full rated current up to 50°C without derating, unlimited 600-V approval according to UL, and the additional finger safety for 400 V-TN systems (+ 3.0 mm) in compliance with the application directive IEC 61800-5-1.

**General ordering data**

Type	SV-SMT 7.62HP/03/90G 2...	Version
Order No.	<a href="#">249950000</a>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118512847	connection, 7.62 mm, Number of poles: 3, 90°, Solder pin length (l):
Qty.	78 ST	2.6 mm, tinned, black, Box
Type	SV-SMT 7.62HP/03/90G 3...	Version
Order No.	<a href="#">249835000</a>	PCB plug-in connector, male header, closed side, THT/THR solder
GTIN (EAN)	4050118511383	connection, 7.62 mm, Number of poles: 3, 90°, Solder pin length (l):
Qty.	50 ST	3.5 mm, tinned, black, Box