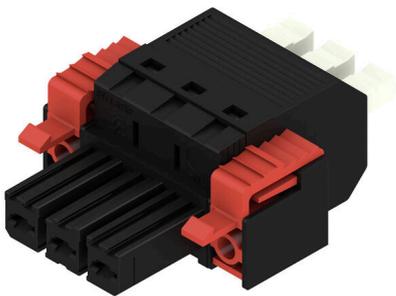


**BVFL 7.62HP/03/180F SN BK BX**

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

www.weidmueller.com

**Product image**


180° female plug with PUSH IN connection system with adjustable actuator (pusher) for field wiring 6 mm<sup>2</sup> in a 7.62 pitch. Meets the requirements of UL 1059 600 V Class C ad IEC 61800-5-1. Also ideal as a touch-safe solution for the power output. The self-locking middle flange which can optionally also be screwed, reduces the space requirements by one pitch width in comparison with conventional solutions. Variants: without flange, external flange, middle flange with snap-on mechanism and optionally additional screw mount

**General ordering data**

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 3, 180°, PUSH IN with actuator, Clamping range, max. : 6 mm <sup>2</sup> , Box
Order No.	<a href="#">2549340000</a>
Type	BVFL 7.62HP/03/180F SN BK BX
GTIN (EAN)	4050118558814
Qty.	48 items
Product data	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 39 A / AWG 24 - AWG 8
Packaging	Box

## BVFL 7.62HP/03/180F SN BK BX

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## Technical data

## Approvals

ROHS	Conform
------	---------

## Dimensions and weights

Depth	52.1 mm	Depth (inches)	2.0512 inch
Height	20.6 mm	Height (inches)	0.811 inch
Net weight	16.86 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	PUSH IN with actuator	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
Screwdriver blade	0.6 x 3.5	Plugging cycles	25

## Material data

Insulating material	PA GF	Colour	black
Colour of operational elements	white	Colour chart (similar)	RAL 9011
Insulating material group	II	Comparative Tracking Index (CTI)	≥ 600
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Cu-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.	125 °C		

## Conductors suitable for connection

Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	6 mm <sup>2</sup>
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	6 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	6 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, 0.5 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>

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**Technical data**

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="#">H0,5/12 OR</a>
		Recommended wire-end ferrule	<a href="#">H0,75/18 W</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>
		Recommended wire-end ferrule	<a href="#">H1,0/18 GE</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>
		Recommended wire-end ferrule	<a href="#">H1,5/12</a>
Cross-section for conductor connection	Type	fine-wired	
		nominal	1.5 mm <sup>2</sup>
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	<a href="#">H1,5/12</a>
wire end ferrule	Stripping length	nominal	15 mm
		Recommended wire-end ferrule	<a href="#">H1,5/18D SW</a>
		Recommended wire-end ferrule	<a href="#">H2,5/12</a>
		Recommended wire-end ferrule	<a href="#">H2,5/19D BL</a>
Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	<a href="#">H2,5/12</a>
		Recommended wire-end ferrule	<a href="#">H2,5/19D BL</a>
		Recommended wire-end ferrule	<a href="#">H4,0/12</a>
Cross-section for conductor connection	Type	fine-wired	
		nominal	4 mm <sup>2</sup>
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	<a href="#">H4,0/12</a>
wire end ferrule	Stripping length	nominal	14 mm
		Recommended wire-end ferrule	<a href="#">H4,0/20D GR</a>
		Recommended wire-end ferrule	<a href="#">H6,0/12</a>
		Recommended wire-end ferrule	<a href="#">H6,0/20 SW</a>
Cross-section for conductor connection	Type	fine-wired	
		nominal	6 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	<a href="#">H6,0/12</a>
		Recommended wire-end ferrule	<a href="#">H6,0/20 SW</a>
		Recommended wire-end ferrule	<a href="#">H6,0/20 SW</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.

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	41 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)	38 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

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### Technical data

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
Creepage distance, min.	12.7 mm	Clearance, min.	10.4 mm

#### Rated data acc. to CSA

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)	33 A
Rated current (Use group C / CSA)	33 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8

#### Rated data acc. to UL 1059

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 current (Use group B / UL 1059)	39 A
Rated current (Use group C / UL 1059)	39 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8

#### Packing

Packaging	Box	VPE length	351.00 mm
VPE width	135.00 mm	VPE height	61.00 mm

#### 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>• 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>• Additional pole combinations on request</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>

#### 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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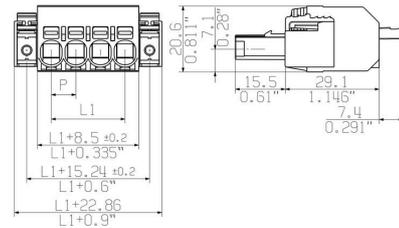
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Drawings

Product image

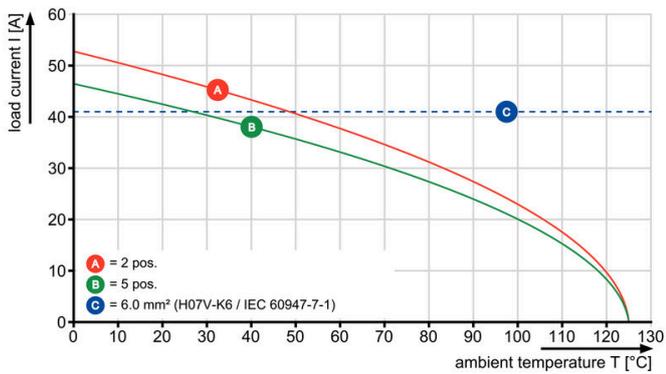


Dimensional drawing



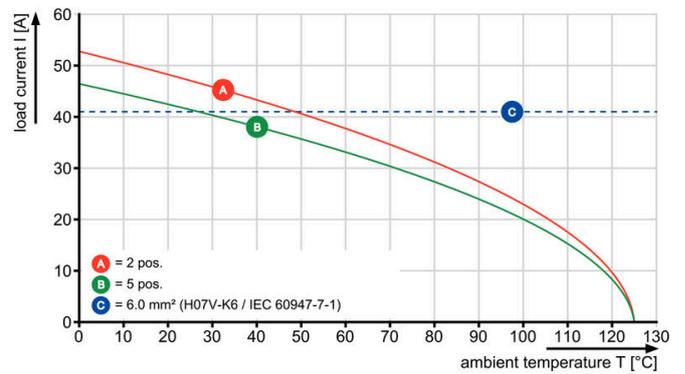
Graph

BVF 7.62HP/./180 - SV 7.62HP/./90



Graph

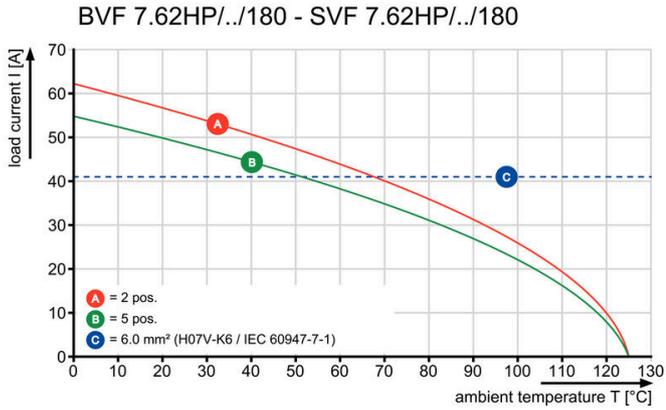
BVF 7.62HP/./180 - SV 7.62HP/./270



Drawings

Graph

Product benefits



Secure connection of small conductors  
PUSH IN WIRE READY

Product benefits



Installation without tools  
Outlet direction: 90° und 180°

## BVFL 7.62HP/03/180F SN BK BX

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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	Version	
Order No.	<a href="#">1937590000</a>	PCB plug-in connector, Accessories, Coding element, black, Number	
GTIN (EAN)	4032248608881	of poles: 1	
Qty.	50 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		

### Coupling set



With the aid of the SVF/BVF 7.62HP COUPLE SET the two plug-in elements can be connected back-to-back to form a 2-row connector with a maximum of 2 x 4 poles.

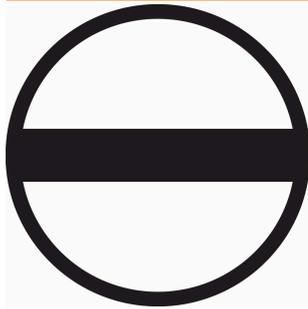
**BVFL 7.62HP/03/180F SN BK BX**

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**Accessories**
**General ordering data**

Type	SVF/BVF 7.62HP COUPLE S...	Version	
Order No.	<a href="#">1440850000</a>		PCB plug-in connector, Accessories, Mounting block, black
GTIN (EAN)	4050118247060		
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 0.6X3.5X100	Version	
Order No.	<a href="#">9008330000</a>		Screwdriver, Screwdriver
GTIN (EAN)	4032248056286		
Qty.	1 ST		

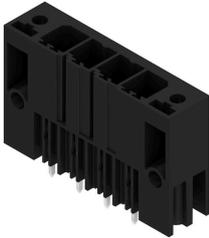
## BVFL 7.62HP/03/180F SN BK BX

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## Counterpart

## SV 7.62HP 180F SN

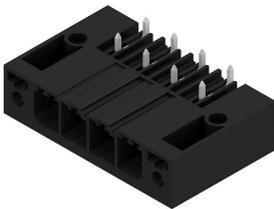


Single-row, high-performance male header for side-by-side mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional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

## General ordering data

Type	SV 7.62HP/03/180F 3.5SN...	Version
Order No.	<a href="#">1930720000</a>	PCB plug-in connector, male header, Clip-on flange, THT solder
GTIN (EAN)	4032248580699	connection, 7.62 mm, Number of poles: 3, 180°, Solder pin length (l):
Qty.	48 ST	3.5 mm, tinned, black, Box

## SV 7.62HP 270F 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/03/270F 3.5SN...	Version
Order No.	<a href="#">1931380000</a>	PCB plug-in connector, male header, Clip-on flange, THT solder
GTIN (EAN)	4032248581412	connection, 7.62 mm, Number of poles: 3, 270°, Solder pin length (l):
Qty.	48 ST	3.5 mm, tinned, black, Box

## SV 7.62HP 90F 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/03/90F 3.5SN ...	Version
Order No.	<a href="#">1930390000</a>	PCB plug-in connector, male header, Clip-on flange, THT solder
GTIN (EAN)	4032248580262	connection, 7.62 mm, Number of poles: 3, 90°, Solder pin length (l):
Qty.	48 ST	3.5 mm, tinned, black, Box

## BVFL 7.62HP/03/180F SN BK BX

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## Counterpart

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### SVD 7.62HP 270F 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/06/270F 3.2S...	Version
Order No.	<a href="#">1523950000</a>	PCB plug-in connector, male header, Clip-on flange, THT solder
GTIN (EAN)	4050118329575	connection, 7.62 mm, Number of poles: 6, 270°, Solder pin length (l):
Qty.	24 ST	3.2 mm, tinned, black, Box

### SV-SMT 7.62HP 270F 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/03/270F 2...	Version
Order No.	<a href="#">2499910000</a>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4050118513332	connection, 7.62 mm, Number of poles: 3, 270°, Solder pin length (l):
Qty.	50 ST	2.6 mm, tinned, black, Box
Type	SV-SMT 7.62HP/03/270F 3...	Version
Order No.	<a href="#">2498860000</a>	PCB plug-in connector, male header, Flange, THT/THR solder
GTIN (EAN)	4050118511598	connection, 7.62 mm, Number of poles: 3, 270°, Solder pin length (l):
Qty.	50 ST	3.5 mm, tinned, black, Box

## BVFL 7.62HP/03/180F SN BK BX

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## Counterpart

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### SV-SMT 7.62HP 90F 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/03/90F 2....	Version
Order No.	<a href="#">2499570000</a>	PCB plug-in connector, male header, Flange, THT/THR solder connection, 7.62 mm, Number of poles: 3, 90°, Solder pin length (l):
GTIN (EAN)	4050118512885	2.6 mm, tinned, black, Box
Qty.	48 ST	
Type	SV-SMT 7.62HP/03/90F 3....	Version
Order No.	<a href="#">2498430000</a>	PCB plug-in connector, male header, Flange, THT/THR solder connection, 7.62 mm, Number of poles: 3, 90°, Solder pin length (l):
GTIN (EAN)	4050118511659	3.5 mm, tinned, black, Box
Qty.	50 ST	

### 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	SVZ 7.62HP/03/180SF SN ...	Version
Order No.	<a href="#">2865710000</a>	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 3,
GTIN (EAN)	4064675601241	180°, Clamping yoke connection, Box
Qty.	100 ST	