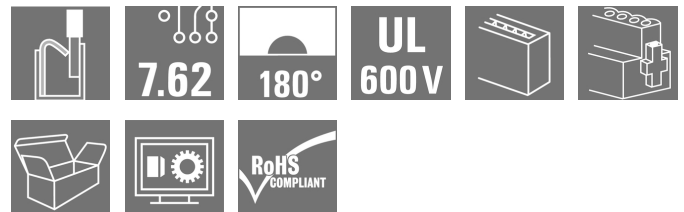


## OMNIMATE Power - series BV/SV 7.62HP SVF 7.62HP/02/180F SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
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www.weidmueller.com

### Product image



Similar to illustration

180° inverted pin header with PUSH IN connection technology for field wiring in 6mm<sup>2</sup> in a 7.62 pitch, as a "three-flange variant" for enclosure feed-through. Suitable for enclosures with a max. wall thickness of 2mm. Also perfect as a touch-safe solution for reverse voltages. Meets the requirements of UL1059 600 V Class C and IEC 61800-5-1.

### General ordering data

Type	SVF 7.62HP/02/180F SN BK BX
Order No.	<a href="#">1060900000</a>
Version	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 2, 180°, PUSH IN, Clamping range, max. : 10 mm <sup>2</sup> , Box
GTIN (EAN)	4032248810826
Qty.	50 pc(s).
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm <sup>2</sup> UL: 600 V / 39 A / AWG 24 - AWG 10
Packaging	Box

Creation date May 1, 2020 1:55:44 PM CEST

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**Technical data**
**Dimensions and weights**

Net weight 13.6 g

**System Parameters**

Product family		Type of connection	
OMNIMATE Power - series BV/SV 7.62HP		Field connection	
Wire connection method	PUSH IN	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	Conductor outlet direction	180°
Number of poles	2	L1 in mm	7.62 mm
L1 in inches	0.3 inch	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	IP20 plugged
Volume resistance	4.50 mΩ	Can be coded	Yes
Stripping length	12 mm	Tightening torque for screw flange, min.	0.2 Nm
Screwdriver blade	0.6 x 3.5	Plugging cycles	25

**Material data**

Insulating material		Colour	
PA GF		black	
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	≥ 10 <sup>8</sup> Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	Copper alloy	Contact surface	tinned
Layer structure of plug contact	4-6 μm Sn glossy	Storage temperature, min.	-25 °C
Storage temperature, max.	50 °C	Max. relative humidity during storage	70 %
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.	10 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>
Stranded, max. H07V-R	10 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	10 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	1.5 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, max.	6 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min.	1.5 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	2.5 mm <sup>2</sup>	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	<a href="#">H2.5/12</a>	
		Stripping length	nominal	14 mm
		Recommended wire-end ferrule	<a href="#">H2.5/19D BL</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	12 mm
		Recommended wire-end ferrule	<a href="#">H6.0/12</a>	
Stripping length		nominal	14 mm	
Recommended wire-end ferrule		<a href="#">H6.0/20 SW</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="#">H1.5/18D SW</a>		
	Stripping length	nominal	12 mm	
	Recommended wire-end ferrule	<a href="#">H1.5/12</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.			
Max. clamping range	10 mm <sup>2</sup>			


**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)	50 A	Rated current, min. number of poles (Tu=40°C)	57 A
Rated current, max. number of poles (Tu=40°C)	45 A	Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/2	800 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
Clearance, min.	12.7 mm	Creepage distance, min.	12.7 mm


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**Technical data****Rated data acc. to CSA**

Institute (CSA)		Certificate No. (CSA)	
		200039-1121690	
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)	36 A
Rated current (Use group C / CSA)	36 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 10
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Rated data acc. to UL 1059**

Institute (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 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 10
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**Packing**

Packaging	Box	VPE length	55 mm
VPE width	140 mm	VPE height	350 mm

**Classifications**

ETIM 6.0	EC002638	ETIM 7.0	EC002638
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09
eClass 10.0	27-44-03-09		

**Notes**

Notes	<ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</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> </ul>
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.

**Data sheet**

**OMNIMATE Power - series BV/SV 7.62HP  
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**Technical data**

**Approvals**

Approvals



ROHS

Conform

**Downloads**

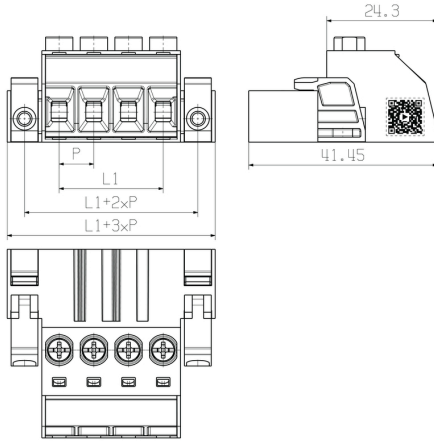
Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Brochure/Catalogue	<a href="#">FL DRIVES EN</a> <a href="#">MB DEVICE MANUF. EN</a> <a href="#">FL DRIVES DE</a> <a href="#">CAT 2 PORTFOLIOGUIDE EN</a> <a href="#">FL HEATING ELECTR EN</a> <a href="#">FL APPL_INVERTER EN</a> <a href="#">FL_BASE_STATION_EN</a> <a href="#">FL ELEVATOR EN</a> <a href="#">FL POWER SUPPLY EN</a> <a href="#">FL 72H SAMPLE SER EN</a> <a href="#">PO OMNIMATE EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Engineering Data	<a href="#">STEP</a>
White paper power electronics connected correctly	<a href="#">Download Whitepaper</a>
User Documentation	<a href="#">QR-Code product handling video</a>
White paper UL 600 V	<a href="#">Download Whitepaper</a>
White paper PUSH IN wire connection	<a href="#">Download Whitepaper</a>

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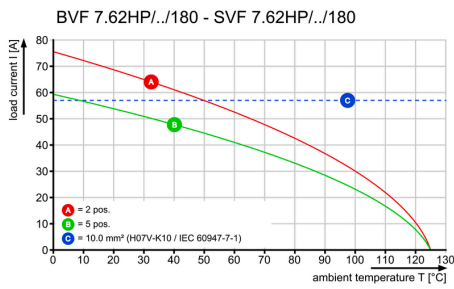
**Drawings**

**Dimensional drawing**

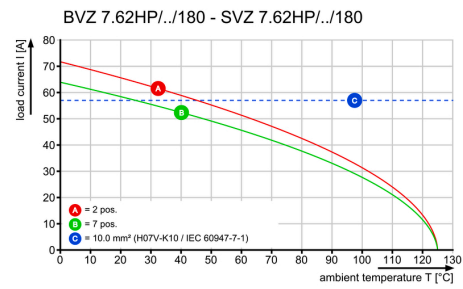


Similar to illustration

**Graph**



**Graph**



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**Mating connector (fully pluggable)**
**BVFL 7.62HP/180F**


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 and 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**

Type	BVFL 7.62HP/02/180F SN ...	Version	Product data	Packaging
Order No.	<a href="#">2549280000</a>	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2,	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup>	Box
GTIN (EAN)	4050118558722	180°, PUSH IN with actuator, Clamping range, max.: 6 mm <sup>2</sup> , Box	UL: 600 V / 39 A / AWG 24 - AWG 8	
Qty.	66 pc(s).			

**BVF 7.62HP/180F**


180° female header with PUSH IN connection technology for field wiring in 6 mm<sup>2</sup> with 7.62 pitch. Meets the requirements as per UL1059 600 V class C and IEC 61800-5-1. Ideal touch-safe solution for the power output. The self-locking (optionally also screwable) middle flange reduces the space requirements by one pitch width in comparison with conventional solutions. Variants: without flange, external flange, middle flange with detent fastening and optionally additional screw mount.

**General ordering data**

Type	BVF 7.62HP/02/180F SN B ...	Version	Product data	Packaging
Order No.	<a href="#">1060440000</a>	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2,	IEC: 1000 V / 57 A / 0.5 - 10 mm <sup>2</sup>	Box
GTIN (EAN)	4032248810086	180°, PUSH IN, Clamping range, max.: 10 mm <sup>2</sup> , Box	UL: 600 V / 39 A / AWG 24 - AWG 8	
Qty.	50 pc(s).			

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**Mating connector (fully pluggable)**
**BVZ 7.62HP 180F SN**


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	Version	Product data	Packaging
BVZ 7.62HP/02/180F SN B ...	Version	Product data	Packaging
Order No. <a href="#">1930050000</a>	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2,	IEC: 1000 V / 57 A / 0.2 - 10 mm <sup>2</sup>	Box
GTIN (EAN) 4032248579822	180°, Clamping yoke connection, Clamping range, max. : 10 mm <sup>2</sup> , BoxUL: 600 V / 40.5 A / AWG 24 - AWG		
Qty. 100 pc(s).		8	
BVZ 7.62HP/02/180F SN D ...	Version	Product data	Packaging
Order No. <a href="#">1981690000</a>	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2,	IEC: 1000 V / 57 A	Box
GTIN (EAN) 4032248678150	180°, Clamping yoke connection, Clamping range, max. : 10 mm <sup>2</sup> , BoxUL: 600 V / 40.5 A		
Qty. 100 pc(s).			
BVZ 7.62HP/02/180F SN D ...	Version	Product data	Packaging
Order No. <a href="#">1981710000</a>	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2,	IEC: 1000 V / 57 A	Box
GTIN (EAN) 4032248678174	180°, Clamping yoke connection, Clamping range, max. : 10 mm <sup>2</sup> , BoxUL: 600 V / 40.5 A		
Qty. 100 pc(s).			
BVZ 7.62HP/02/180F SN D ...	Version	Product data	Packaging
Order No. <a href="#">1983950000</a>	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2,	IEC: 1000 V / 57 A	Box
GTIN (EAN) 4032248689316	180°, Clamping yoke connection, Clamping range, max. : 10 mm <sup>2</sup> , BoxUL: 600 V / 40.5 A		
Qty. 100 pc(s).			
BVZ 7.62HP/02/180F SN B ...	Version	Product data	Packaging
Order No. <a href="#">1077250000</a>	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2,	IEC: 1000 V / 57 A	Box
GTIN (EAN) 4032248834686	180°, Clamping yoke connection, Clamping range, max. : 10 mm <sup>2</sup> , BoxUL: 600 V / 40.5 A		
Qty. 50 pc(s).			
BVZ 7.62HP/02/180F SN B ...	Version	Product data	Packaging
Order No. <a href="#">1957680000</a>	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2,	IEC: 1000 V / 57 A	Box
GTIN (EAN) 4032248636891	180°, Clamping yoke connection, Clamping range, max. : 10 mm <sup>2</sup> , BoxUL: 600 V / 40.5 A		
Qty. 100 pc(s).			



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**Accessories**

**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, Blade width (B): 4.5 mm, Blade length: 125 mm, Blade thickness (A): 0.8 mm
GTIN (EAN)	4032248266883	
Qty.	1 pc(s).	

**PZ**

**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> , Trapezoidal indentation crimp
GTIN (EAN)	4008190165352	
Qty.	1 pc(s).	

## Data sheet

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## Accessories

### Coding elements



**Only connects what is supposed to be connected:  
the right connection at the right place.**

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.

Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

### General ordering data

Type	BV/SV 7.62HP KO	Version	Product data	Packaging
Order No.	<a href="#">1937590000</a>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248608881	of poles: 1		
Qty.	50 pc(s).			