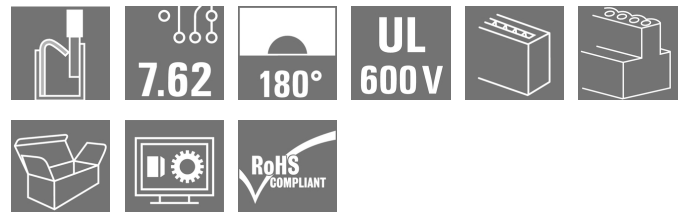


OMNIMATE Power - series BV/SV 7.62HP SVF 7.62HP/04/180G SN BK BX

Weidmüller Interface GmbH & Co. KG
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Product image



180° inverted pin header with PUSH IN connection technology for field wiring in 6mm² 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/04/180G SN BK BX
Order No.	1060850000
Version	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN, Clamping range, max. : 10 mm ² , Box
GTIN (EAN)	4032248810857
Qty.	45 pc(s).
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm ² UL: 600 V / 39 A / AWG 24 - AWG 10
Packaging	Box

Creation date May 1, 2020 1:55:08 PM CEST

**OMNIMATE Power - series BV/SV 7.62HP
SVF 7.62HP/04/180G SN BK BX**

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Technical data**Dimensions and weights**

Net weight	20.8 g
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System Parameters

Product family		Type of connection	
Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	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	4	L1 in mm	22.86 mm
L1 in inches	0.9 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	6 mm ²
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
Tightening torque for screw flange, max.	0.3 Nm	Screwdriver blade	0.6 x 3.5
Plugging cycles	25		

Material data

Insulating material		Colour	
Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	≥ 10 ⁸ 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 ²
Clamping range, max.	10 mm ²
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	6 mm ²
Stranded, max. H07V-R	10 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	10 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, max.	6 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	1.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	6 mm ²

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Technical data

Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm ²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H2.5/12	
		Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H2.5/19D BL	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	4 mm ²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H4.0/12	
		Stripping length	nominal	14 mm
		Recommended wire-end ferrule	H4.0/20D GR	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	6 mm ²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H6.0/12	
Stripping length		nominal	14 mm	
Recommended wire-end ferrule		H6.0/20 SW		
Cross-section for conductor connection	Type	fine-wired		
	nominal	1.5 mm ²		
wire end ferrule	Stripping length	nominal	15 mm	
	Recommended wire-end ferrule	H1.5/18D SW		
	Stripping length	nominal	12 mm	
	Recommended wire-end ferrule	H1.5/12		
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 ²			


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	135 mm	VPE height	345 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"> • Additional colours on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228/1 • Wire end ferrule with plastic collar to DIN 46228/4 • 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.
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
SVF 7.62HP/04/180G SN BK BX**

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Technical data

Approvals

Approvals



ROHS

Conform

Downloads

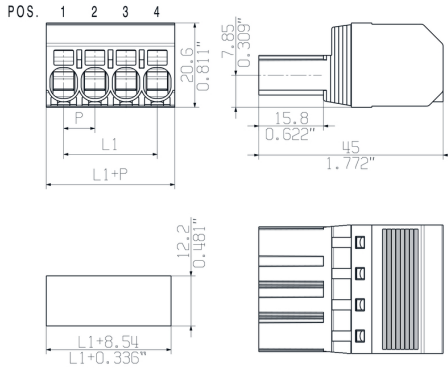
Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE CAT 2 PORTFOLIOGUIDE EN FL HEATING ELECTR EN FL APPL INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN
Engineering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

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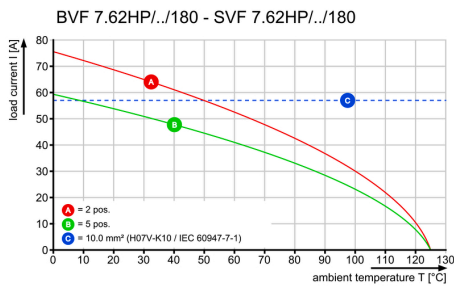
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Drawings

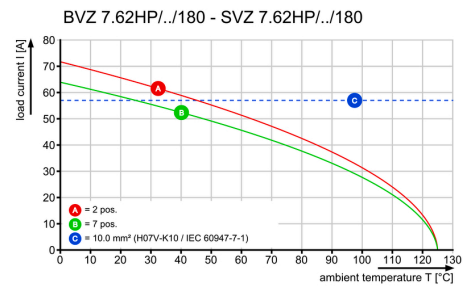
Dimensional drawing



Graph



Graph



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Mating connector (fully pluggable)
BVFL 7.62HP/180


180° female plug with PUSH IN connection system with adjustable actuator (pusher) for field wiring 6 mm² 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

Type	BVFL 7.62HP/04/180 SN B ...	Version	Product data	Packaging
Order No.	1547520000	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4,	IEC: 1000 V / 41 A / 0.5 - 6 mm ²	Box
GTIN (EAN)	4050118353143	180°, PUSH IN with actuator, Clamping range, max. : 6 mm ² , Box	UL: 600 V / 39 A / AWG 24 - AWG 8	
Qty.	60 pc(s).			

BVZ 7.62HP 180 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	BVZ 7.62HP/04/180 SN BK ...	Version	Product data	Packaging
Order No.	1929950000	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4,	IEC: 1000 V / 57 A / 0.2 - 10 mm ²	Box
GTIN (EAN)	4032248579730	180°, Clamping yoke connection, Clamping range, max. : 10 mm ² , Box	UL: 600 V / 40.5 A / AWG 24 - AWG 8	
Qty.	100 pc(s).		8	

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Mating connector (fully pluggable)
BVL 7.62HP 90 SN


High-performance female header with solder connection. 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, with unique coding diversity, protection against faulty wiring and 4-point contact.

General ordering data

Type	BVL 7.62HP/04/90 3.5SN ...	Version	Product data	Packaging
Order No.	1928300000	PCB plug-in connector, female header, closed side, THT solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (l): 3.5 mm, tinned, black, Box	IEC: 1000 V / 56.8 A UL: 300 V / 35 A	Box
GTIN (EAN)	4032248577507			
Qty.	100 pc(s).			

BVL 7.62HP 180 SN


High-performance female header with solder connection. 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, with unique coding diversity, protection against faulty wiring and 4-point contact.

General ordering data

Type	BVL 7.62HP/04/180 3.5SN ...	Version	Product data	Packaging
Order No.	1928630000	PCB plug-in connector, female header, closed side, THT solder connection, 7.62 mm, Number of poles: 4, 180°, Solder pin length (l): 3.5 mm, tinned, black, Box	IEC: 1000 V / 56.8 A UL: 300 V / 42 A	Box
GTIN (EAN)	4032248577989			
Qty.	100 pc(s).			

**OMNIMATE Power - series BV/SV 7.62HP
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Mating connector (fully pluggable)
BVF 7.62HP/180


180° female header with PUSH IN connection technology for field wiring in 6 mm² 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/04/180 SN BK ...	Version	Product data	Packaging
Order No.	1060410000	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4,	IEC: 1000 V / 57 A / 0.5 - 10 mm ²	Box
GTIN (EAN)	4032248810116	180°, PUSH IN, Clamping range, max.: 10 mm ² , Box	UL: 600 V / 39 A / AWG 24 - AWG 8	
Qty.	45 pc(s).			

BVL 7.62HP 270 SN


High-performance female header with solder connection. 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, with unique coding diversity, protection against faulty wiring and 4-point contact.

General ordering data

Type	BVL 7.62HP/04/270 3.5SN ...	Version	Product data	Packaging
Order No.	1929320000	PCB plug-in connector, female header, closed side, THT solder	IEC: 1000 V / 56.8 A	Box
GTIN (EAN)	4032248578665	connection, 7.62 mm, Number of poles: 4, 270°, Solder pin length (!):	UL: 300 V / 35 A	
Qty.	100 pc(s).	3.5 mm, tinned, black, Box		

Data sheet

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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.	9009020000	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.	9011460000	Pressing tool, Crimping tool for wire-end ferrules, 0.25mm ² , 6mm ² , 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.	1937590000	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248608881	of poles: 1		
Qty.	50 pc(s).			